

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

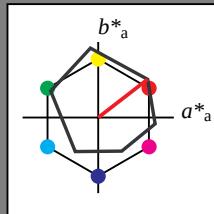
0,25

0,50

0,75

1,00

chromaticness c^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

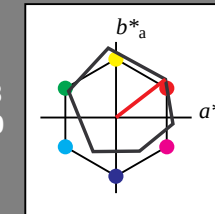
0,25

0,50

0,75

1,00

chromaticness c^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

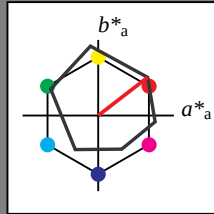
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

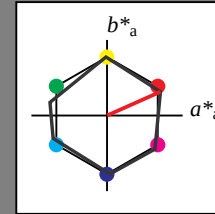
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

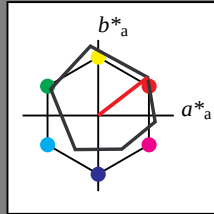
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

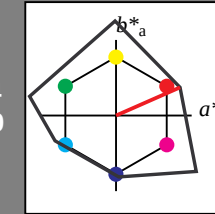
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

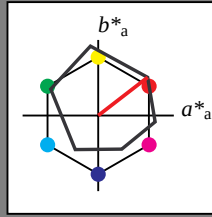
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

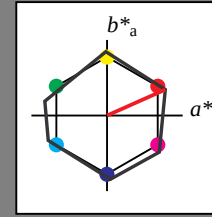
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	84.85	19.28	8.58		
LAB*LABa	84.85	19.28	8.58		
LAB*TCHa	87.5	21.08	24.01		
relative CIELAB lab*					
lab*lab	0.875	0.228	0.102		
lab*ch	0.875	0.228	0.102		
lab*nch	0.0	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.875	0.228	0.102		
lab*nce	0.0	0.25	0.067		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	63.75	19.3	8.59		
LAB*LABa	63.75	19.26	8.58		
LAB*TCHa	62.5	21.09	24.01		
relative CIELAB lab*					
lab*lab	0.625	0.228	0.102		
lab*ch	0.625	0.228	0.102		
lab*nch	0.25	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.625	0.228	0.102		
lab*nce	0.25	0.25	0.067		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.2	38.57	17.17		
LAB*LABa	53.2	38.53	17.16		
LAB*TCHa	50.0	42.18	24.01		
relative CIELAB lab*					
lab*lab	0.5	0.457	0.203		
lab*ch	0.5	0.457	0.203		
lab*nch	0.25	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.5	0.457	0.203		
lab*nce	0.25	0.5	0.067		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.1	38.58	17.17		
LAB*LABa	32.1	38.52	17.16		
LAB*TCHa	25.01	42.17	24.01		
relative CIELAB lab*					
lab*lab	0.25	0.457	0.203		
lab*ch	0.25	0.457	0.203		
lab*nch	0.25	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.25	0.457	0.203		
lab*nce	0.25	0.5	0.067		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

chromaticness c^*

n

5 step scales for constant CIELAB hue $24/360 = 0.066$ (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

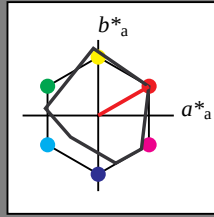
chromaticness c^*

$n^* = 1,0$

blackness n^*

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271



% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

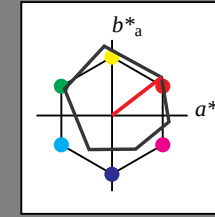
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 30/360 = 0.083 (left)

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

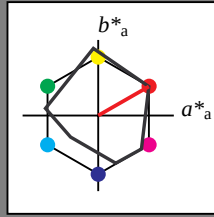
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

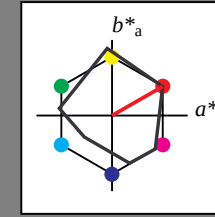
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 30/360 = 0.083 (left)

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,0

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

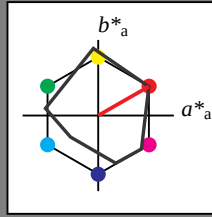
LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 30/360 = 0.083 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

D65: hue R

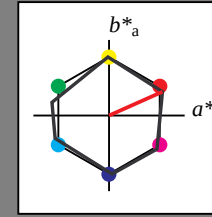
LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

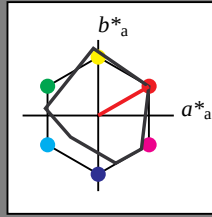
D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

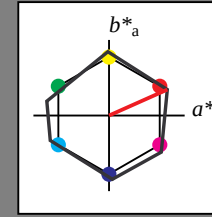
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

LAB*ICH	95.95	0.01	—
relative CIELAB lab*			
lab*lab	1.0	0.0	0.0
lab*ich	1.0	0.0	—
lab*nch	0.0	0.0	—
relative Natural Colour (NC)			
lab*lrj	1.0	0.0	0.0
lab*ice	1.0	0.0	—
lab*nce	0.0	0.0	—

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

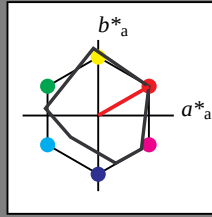
D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.0	0.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

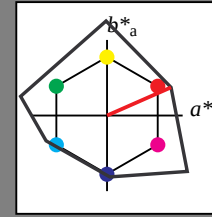
D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.34	21.17	9.31		
LAB*LABa	83.34	21.15	9.31		
LAB*TCHa	87.5	23.11	23.75		
relative CIELAB lab*					
lab*lab	0.857	0.229	0.101		
lab*ch	0.875	0.25	0.066		
lab*nch	0.0	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.857	0.25	-0.005		
lab*nce	0.875	0.25	0.996		
lab*nce	0.0	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.5	0.5	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	62.24	21.2	9.32		
LAB*LABa	62.24	21.16	9.31		
LAB*TCHa	62.5	23.12	23.75		
relative CIELAB lab*					
lab*lab	0.607	0.229	0.101		
lab*ch	0.625	0.25	0.066		
lab*nch	0.25	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.607	0.25	-0.005		
lab*nce	0.625	0.25	0.996		
lab*nce	0.25	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.25	0.25	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	50.17	42.37	18.64		
LAB*LABa	50.17	42.32	18.63		
LAB*TCHa	50.0	46.24	23.75		
relative CIELAB lab*					
lab*lab	0.464	0.458	0.201		
lab*ch	0.464	0.458	0.066		
lab*nch	0.25	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.464	0.458	-0.011		
lab*nce	0.464	0.458	0.996		
lab*nce	0.25	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	0.0	0.0	(0.0)	
olvi4*	1.0	0.0	0.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	29.07	42.38	18.64		
LAB*LABa	29.07	42.31	18.62		
LAB*TCHa	25.01	46.23	23.75		
relative CIELAB lab*					
lab*lab	0.214	0.458	0.201		
lab*ch	0.214	0.458	0.066		
lab*nch	0.5	0.5	0.066		
relative Natural Colour (NC)					
lab*trj	0.214	0.458	-0.011		
lab*nce	0.214	0.458	0.996		
lab*nce	0.5	0.5	0.996		

lab*lab	0.73	0.23	0.50
lab*ch	0.25		
lab*nch			

for constant CIELAB

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

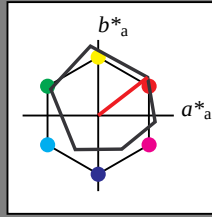
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

triangle lightness

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

1,00

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0 4.75

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*ch 1.0 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 0.0 3.44

LAB*LABa 76.06 0.0 0.0

LAB*TCHa 75.0 0.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*ch 0.75 0.0 -

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.75 0.0 0.0

lab*nce 0.25 0.0 -

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (1.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 56.71 0.0 2.14

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

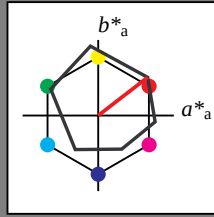
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

$u^*_{rel} = 91$

1,00

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

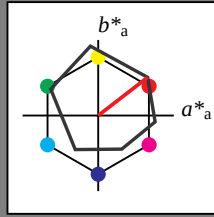
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.0	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

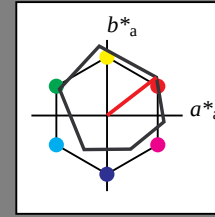
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.54	15.58	16.58		
LAB*LABa	83.54	16.34	12.62		
LAB*TCHa	87.5	20.65	37.7		
relative CIELAB lab*					
lab*lab	0.847	0.198	0.153		
lab*ch	0.875	0.25	0.105		
lab*nch	0.0	0.25	0.105		
relative Natural Colour (NC)					
lab*trj	0.847	0.25	0.075		
lab*nce	0.875	0.25	0.048		
lab*nce	0.0	0.25	r19		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.19	15.36	15.28		
LAB*LABa	64.19	16.34	12.63		
LAB*TCHa	62.5	20.65	37.7		
relative CIELAB lab*					
lab*lab	0.597	0.198	0.153		
lab*ch	0.625	0.25	0.105		
lab*nch	0.25	0.25	0.105		
relative Natural Colour (NC)					
lab*trj	0.597	0.25	0.075		
lab*nce	0.625	0.25	0.048		
lab*nce	0.25	0.25	r19		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.33	25.33	27.11		
LAB*LABa	52.33	32.69	25.26		
LAB*TCHa	50.0	41.3	37.7		
relative CIELAB lab*					
lab*lab	0.443	0.396	0.306		
lab*ch	0.475	0.5	0.105		
lab*nch	0.25	0.5	0.105		
relative Natural Colour (NC)					
lab*trj	0.443	0.477	0.15		
lab*nce	0.5	0.5	0.048		
lab*nce	0.25	0.5	r19		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.98	32.9	25.8		
LAB*LABa	32.98	32.68	25.25		
LAB*TCHa	25.01	41.3	37.7		
relative CIELAB lab*					
lab*lab	0.193	0.396	0.306		
lab*ch	0.25	0.5	0.105		
lab*nch	0.5	0.5	0.105		
relative Natural Colour (NC)					
lab*trj	0.193	0.477	0.15		
lab*nce	0.25	0.5	0.048		
lab*nce	0.5	0.5	r19		

lab*lab	0.73	0.23	1.17
	0.25		
for constant CIELAB L			

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

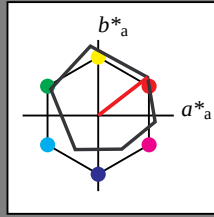
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCBa	99.99	0.01	-	-	-

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0	0.0	0.0
LAB*LABa	76.06	0.0	0.0	0.0	0.0
LAB*TCBa	75.01	0.01	-	-	-

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*ch	0.75	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0	0.0	0.0
LAB*LABa	56.71	0.0	0.0	0.0	0.0
LAB*TCBa	50.0	0.01	-	-	-

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*ch	0.5	0.0	0.0	0.0	0.0
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01	0.01	0.01
LAB*LABa	37.36	0.07	0.01	0.01	0.01
LAB*TCBa	25.0	0.01	-	-	-

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.75	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.75	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02	0.02	0.02
LAB*LABa	18.02	0.1	0.02	0.02	0.02
LAB*TCBa	0.01	0.01	-	-	-

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	1.0	0.0	0.0	0.0	0.0

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

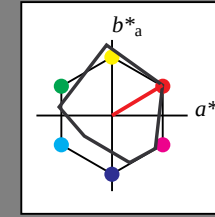
D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	1.0	(1.0)
cmyn4*	0.0	0.25	0.25	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	83.96	16.71	10.0	10.0	10.0
LAB*LABa	83.96	16.69	10.0	10.0	10.0
LAB*TCBa	87.5	19.46	30.93	30.93	30.93

relative CIELAB lab*					
lab*lab	0.852	0.214	0.128	0.128	0.128
lab*ch	0.875	0.25	0.086	0.086	0.086
lab*nch	0.0	0.25	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.852	0.248	0.032	0.032	0.032
lab*nce	0.875	0.25	0.02	0.02	0.02
lab*nce	0.0	0.25	r08	r08	r08

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	0.5	(1.0)
cmyn3*	0.25	0.5	0.5	0.5	(0.0)
olvi4*	1.0	0.75	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	64.61	16.74	10.02	10.02	10.02
LAB*LABa	64.61	16.7	10.01	10.01	10.01
LAB*TCBa	62.5	19.47	30.93	30.93	30.93

relative CIELAB lab*					
lab*lab	0.602	0.214	0.128	0.128	0.128
lab*ch	0.625	0.25	0.086	0.086	0.086
lab*nch	0.25	0.25	0.086	0.086	0.086
relative Natural Colour (NC)					
lab*trj	0.602	0.248	0.032	0.032	0.032
lab*nce	0.625	0.25	0.02	0.02	0.02
lab*nce	0.25	0.25	r08	r08	r08

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	0.25	(1.0)
cmyn3*	0.5	0.25	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	53.17	33.46	20.03	20.03	20.03
LAB*LABa	53.17	33.4	20.01	20.01	20.01
LAB*TCBa	50.0	38.93	30.93	30.93	30.93

relative CIELAB lab*					
lab*lab	0.454	0.429	0.257	0.257	0.257
lab*ch	0.454	0.429	0.086	0.086	0.086
lab*nch	0.25	0.25	0.086	0.086	0.086
relative Natural Colour (NC)					
lab*trj	0.454	0.496	0.064	0.064	0.064
lab*nce	0.454	0.496	0.02	0.02	0.02
lab*nce	0.25	0.25	r08	r08	r08

relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	0.0	(0.0)
olvi4*	1.0	0.5	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	33.82	33.47	20.03	20.03	20.03
LAB*LABa	33.82	33.39	20.01	20.01	20.01
LAB*TCBa	25.01	38.93	30.93	30.93	30.93

relative CIELAB lab*					
lab*lab	0.204	0.429	0.257	0.257	0.257
lab*ch	0.25	0.5	0.086	0.086	0.086
lab*nch	0.5	0.5	0.086	0.086	0.086
relative Natural Colour (NC)					
lab*trj	0.204	0.496	0.064	0.064	0.064
lab*nce	0.25	0.5	0.02	0.02	0.02
lab*nce	0.5	0.5	r08	r08	r08

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	0.5	(0.0)
olvi4*	1.0	0.5	0.5	1.0	(1.0)
cmyn4*	0.0	0.5	0.5	0.0	(0.0)
standard and adapted CIELAB					

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

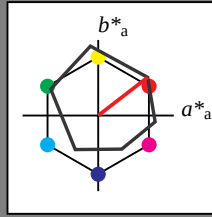
LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

D65: hue R

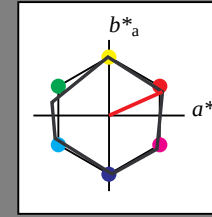
LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	66.38	17.71	7.88		
LAB*LABa	66.38	17.71	7.88		
LAB*TCHa	62.5	19.34	24.01		
relative CIELAB lab*					
lab*lab	0.625	0.228	0.102		
lab*tch	0.625	0.228	0.102		
lab*nch	0.25	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.625	0.25	0.004		
lab*tce	0.625	0.25	0.997		
lab*nce	0.25	0.25	0.998		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	47.03	17.71	7.88		
LAB*LABa	47.03	17.71	7.88		
LAB*TCHa	37.5	19.34	24.01		
relative CIELAB lab*					
lab*lab	0.375	0.228	0.102		
lab*tch	0.375	0.228	0.102		
lab*nch	0.5	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.375	0.25	0.004		
lab*tce	0.375	0.25	0.997		
lab*nce	0.5	0.25	0.998		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.25	0.0	0.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.07	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.09	0.02		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.01	0.01	0.01		
LAB*LABa	0.01	0.01	0.01		
LAB*TCHa	0.01	0.01	0.01		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.01	0.01	0.01		
LAB*LABa	0.01	0.01	0.01		
LAB*TCHa	0.01	0.01	0.01		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0		

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

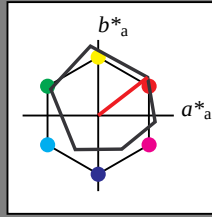
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 1,0$

chromaticness c^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

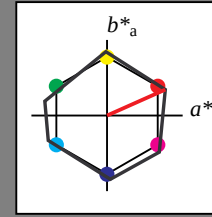
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	84.85	19.28	8.58		
LAB*LABa	84.85	19.28	8.58		
LAB*TCHa	87.5	21.08	24.01		
relative CIELAB lab*					
lab*lab	0.875	0.228	0.102		
lab*ch	0.875	0.228	0.102		
lab*nch	0.0	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.875	0.25	0.004		
lab*nce	0.875	0.25	0.997		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	63.75	19.3	8.59		
LAB*LABa	63.75	19.26	8.58		
LAB*TCHa	62.5	21.09	24.01		
relative CIELAB lab*					
lab*lab	0.625	0.228	0.102		
lab*ch	0.625	0.228	0.102		
lab*nch	0.25	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.625	0.25	0.004		
lab*nce	0.625	0.25	0.997		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.2	38.57	17.17		
LAB*LABa	53.2	38.53	17.16		
LAB*TCHa	50.0	42.18	24.01		
relative CIELAB lab*					
lab*lab	0.5	0.457	0.203		
lab*ch	0.5	0.457	0.203		
lab*nch	0.25	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.5	0.5	0.009		
lab*nce	0.5	0.5	0.997		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.1	38.58	17.17		
LAB*LABa	32.1	38.52	17.16		
LAB*TCHa	25.01	42.17	24.01		
relative CIELAB lab*					
lab*lab	0.25	0.457	0.203		
lab*ch	0.25	0.457	0.203		
lab*nch	0.25	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.25	0.5	0.009		
lab*nce	0.25	0.5	0.997		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 1,0$

chromaticness c^*

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

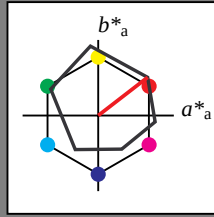
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

1,00

0,75

0,25

0,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

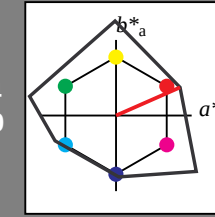
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

1,00

0,75

0,25

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

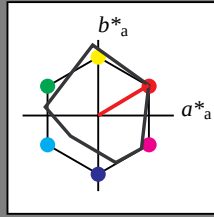
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

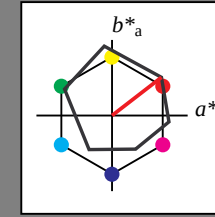
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 31/360 = 0.086 (left)

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

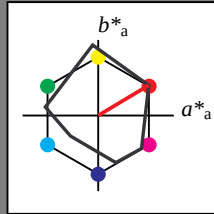
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

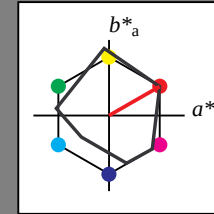
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 31/360 = 0.086 (left)

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

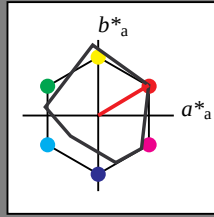
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

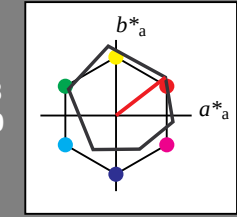
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 31/360 = 0.086 (left)

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

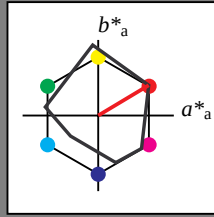
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

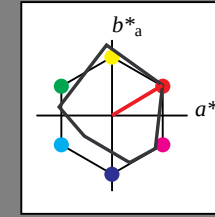
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 31/360 = 0.086 (left)

5 step scales for constant CIELAB hue 31/360 = 0.086 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

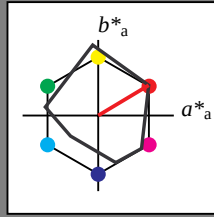
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 31/360 = 0.086 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

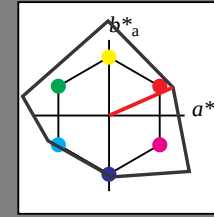
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

lab^*tch and lab^*nch

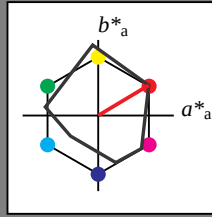
D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0	-0.01	
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0	-0.01	
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01	-0.01	
LAB*LABa	32.11	0.0	0.0		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01	-0.01	
LAB*LABa	11.01	0.0	0.0		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

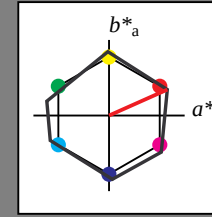
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	84.85	19.28	8.58	-0.004	
LAB*LABa	84.85	19.28	8.58		
LAB*TC _{Ma}	87.5	21.08	24.01		
relative CIELAB lab*					
lab*lab	0.875	0.228	0.102		
lab*ch	0.875	0.25	0.067		
lab*nch	0.0	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.875	0.25	0.067		
lab*nce	0.0	0.25	0.067		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	63.75	19.3	8.59	-0.009	
LAB*LABa	63.75	19.26	8.58		
LAB*TC _{Ma}	62.5	21.09	24.01		
relative CIELAB lab*					
lab*lab	0.625	0.228	0.102		
lab*ch	0.625	0.25	0.067		
lab*nch	0.25	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.625	0.25	0.067		
lab*nce	0.25	0.25	0.067		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.2	38.57	17.17	-0.014	
LAB*LABa	53.2	38.53	17.16		
LAB*TC _{Ma}	50.0	42.18	24.01		
relative CIELAB lab*					
lab*lab	0.5	0.457	0.203		
lab*ch	0.5	0.5	0.067		
lab*nch	0.5	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.5	0.5	0.067		
lab*nce	0.5	0.5	0.067		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.1	38.58	17.17	-0.014	
LAB*LABa	32.1	38.52	17.16		
LAB*TC _{Ma}	25.01	42.17	24.01		
relative CIELAB lab*					
lab*lab	0.25	0.457	0.203		
lab*ch	0.25	0.5	0.067		
lab*nch	0.75	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.25	0.5	0.067		
lab*nce	0.75	0.5	0.067		

	0,25
for constant CIELAB h	

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

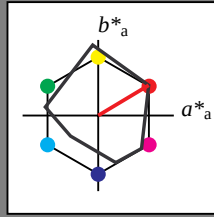
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

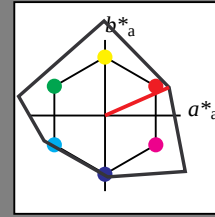
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

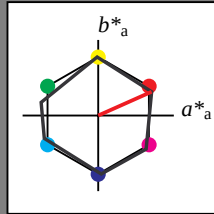
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

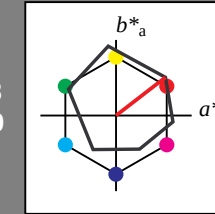
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

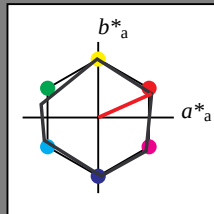
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

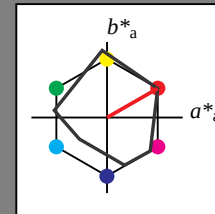
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

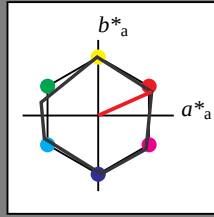
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 38/360 = 0.105$

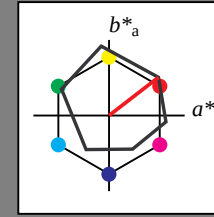
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

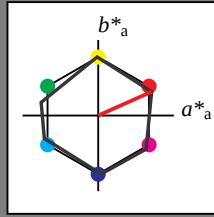
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

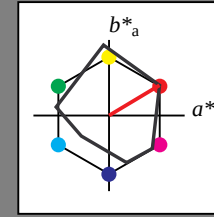
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.0	0.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.61	16.74	10.02		
LAB*LABa	64.61	16.7	10.01		
LAB*TCBa	62.5	19.47	30.93		
relative CIELAB lab*					
lab*lab	0.602	0.214	0.128		
lab*ch	0.625	0.25	0.086		
lab*nch	0.25	0.25	0.086		
relative Natural Colour (NC)					
lab*trj	0.602	0.248	0.032		
lab*nce	0.625	0.25	0.02		
lab*nce	0.25	0.25	0.086		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	45.26	16.77	10.02		
LAB*LABa	45.26	16.7	10.01		
LAB*TCBa	37.5	19.47	30.93		
relative CIELAB lab*					
lab*lab	0.352	0.214	0.128		
lab*ch	0.375	0.25	0.086		
lab*nch	0.5	0.25	0.086		
relative Natural Colour (NC)					
lab*trj	0.352	0.248	0.032		
lab*nce	0.375	0.25	0.02		
lab*nce	0.5	0.25	0.086		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.92	16.78	10.03		
LAB*LABa	25.92	16.69	10.0		
LAB*TCBa	12.5	19.46	30.93		
relative CIELAB lab*					
lab*lab	0.102	0.214	0.128		
lab*ch	0.125	0.25	0.086		
lab*nch	0.75	0.25	0.086		
relative Natural Colour (NC)					
lab*trj	0.102	0.248	0.032		
lab*nce	0.125	0.25	0.02		
lab*nce	0.75	0.25	0.086		

$n^* = 1,0$

5 step scales for constant CIELAB hue 31/360 = 0.086 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	0.5	(1.0)	
cmyn3*	0.0	0.5	0.5	(0.0)	
olvi4*	1.0	0.25	0.25	(1.0)	
cmyn4*	0.0	0.5	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	72.52	33.43	20.01		
LAB*LABa	72.52	33.39	20.01		
LAB*TCBa	75.0	38.93	30.93		
relative CIELAB lab*					
lab*lab	0.704	0.429	0.257		
lab*ch	0.75	0.5	0.086		
lab*nch	0.0	0.5	0.086		
relative Natural Colour (NC)					
lab*trj	0.704	0.496	0.064		
lab*nce	0.75	0.5	0.02		
lab*nce	0.0	0.5	0.086		

relative Inform. Technology (IT)					
olvi3*	0.75	0.25	0.25	(1.0)	
cmyn3*	0.25	0.75	0.75	(0.0)	
olvi4*	1.0	0.5	0.5	(1.0)	
cmyn4*	0.0	0.5	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.17	33.46	20.03		
LAB*LABa	53.17	33.4	20.01		
LAB*TCBa	50.0	38.93	30.93		
relative CIELAB lab*					
lab*lab	0.454	0.429	0.257		
lab*ch	0.454	0.5	0.086		
lab*nch	0.25	0.5	0.086		
relative Natural Colour (NC)					
lab*trj	0.454	0.496	0.064		
lab*nce	0.454	0.5	0.02		
lab*nce	0.25	0.5	0.086		

relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.0	(1.0)	
cmyn3*	0.5	0.0	0.0	(0.0)	
olvi4*	1.0	0.25	0.25	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	41.73	50.16	10.02		
LAB*LABa	41.73	50.09	10.01		
LAB*TCBa	37.51	38.93	30.93		
relative CIELAB lab*					
lab*lab	0.306	0.643	0.385		
lab*ch	0.375	0.75	0.086		
lab*nch	0.25	0.75	0.086		
relative Natural Colour (NC)					
lab*trj	0.306	0.744	0.096		
lab*nce	0.375	0.75	0.02		
lab*nce	0.25	0.75	0.086		

0.75	0.086
0.75	0.086
lour (NC)	
0.744	0.096
0.75	0.02
0.75	r08j

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

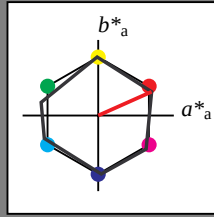
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

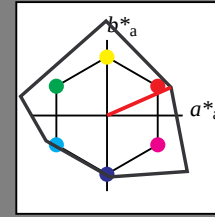
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	63.99	21.2	9.32		
LAB*LABa	63.99	21.16	9.31		
LAB*TC _{Ha}	62.5	23.12	23.75		
relative CIELAB lab*					
lab*lab	0.594	0.229	0.101		
lab*ch	0.625	0.25	0.066		
lab*nch	0.25	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.594	0.25	-0.005		
lab*nce	0.625	0.25	0.996		
lab*nce	0.25	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	25.3	21.24	9.33		
LAB*LABa	25.3	21.15	9.31		
LAB*TC _{Ha}	12.5	23.11	23.75		
relative CIELAB lab*					
lab*lab	0.094	0.229	0.101		
lab*ch	0.125	0.25	0.066		
lab*nch	0.75	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.094	0.25	-0.005		
lab*nce	0.125	0.25	0.996		
lab*nce	0.75	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	32.58	42.39	18.64		
LAB*LABa	32.58	42.31	18.62		
LAB*TC _{Ha}	25.01	46.22	23.75		
relative CIELAB lab*					
lab*lab	0.188	0.458	0.201		
lab*ch	0.25	0.5	0.066		
lab*nch	0.5	0.5	0.066		
relative Natural Colour (NC)					
lab*trj	0.188	0.5	0.011		
lab*nce	0.25	0.5	0.996		
lab*nce	0.5	0.5	0.996		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	51.93	42.37	18.64		
LAB*LABa	51.93	42.31	18.62		
LAB*TC _{Ha}	50.0	46.23	23.75		
relative CIELAB lab*					
lab*lab	0.438	0.458	0.201		
lab*ch	0.625	0.75	0.066		
lab*nch	0.25	0.75	0.066		
relative Natural Colour (NC)					
lab*trj	0.438	0.5	0.011		
lab*nce	0.625	0.75	0.996		
lab*nce	0.25	0.75	0.996		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	39.87	63.54	27.95		
LAB*LABa	39.87	63.46	27.93		
LAB*TC _{Ha}	37.51	69.34	23.75		
relative CIELAB lab*					
lab*lab	0.282	0.686	0.302		
lab*ch	0.375	0.75	0.066		
lab*nch	0.25	0.75	0.066		
relative Natural Colour (NC)					
lab*trj	0.282	0.75	-0.017		
lab*nce	0.375	0.75	0.996		
lab*nce	0.25	0.75	0.996		

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

NCS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
a	RMa	47.15	84.63	37.24	92.46	24
	JMa	91.37	-1.27	125.03	125.03	91
	GMa	63.07	-114.29	25.34	117.07	167
	G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
	BMa	49.01	3.63	-81.2	81.29	273
	B50R _{Ma}	44.06	106.07	-73.94	129.31	325
	NMa	18.01	0.0	0.0	0.0	0
	W _{Ma}	95.41	0.0	0.0	0.0	0
	RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92	
G _{CIE}	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

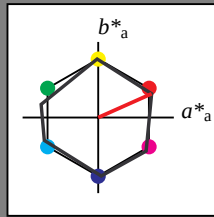
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	56.7	70.66	31.47	77.35	24	
JMa	56.7	-1.39	77.37	77.39	91	
GMa	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
NMa	18.01	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

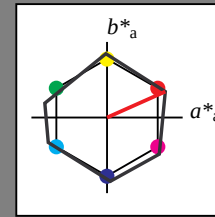
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



NRS11; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	53.2	77.06	34.32	84.36	24	
JMa	53.2	-1.51	84.38	84.39	91	
GMa	53.2	-82.27	18.98	84.44	167	
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203	
B _{Ma}	53.2	4.37	-84.28	84.41	273	
B50R _{Ma}	53.2	69.09	-48.41	84.37	325	
NMa	10.99	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

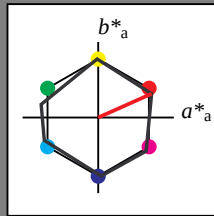
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0.00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

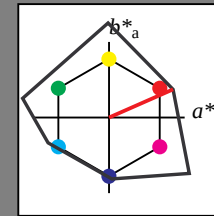
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

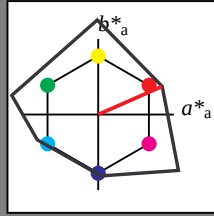
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

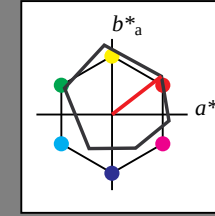
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

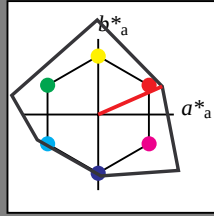
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

chromaticness c^*

$n^* = 1.0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

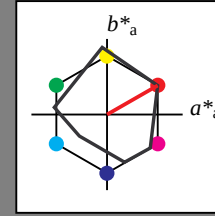
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.61	16.35	12.27		
LAB*LABa	64.61	16.74	9.59		
LAB*TC _{Ma}	62.5	19.29	29.82		
relative CIELAB lab*					
lab*lab	0.602	0.217	0.124		
lab*ch	0.625	0.25	0.083		
lab*nch	0.25	0.25	0.083		
relative Natural Colour (NC)					
lab*trj	0.556	0.248	0.03		
lab*nce	0.625	0.25	0.019		
lab*nce	0.25	0.25	0.07		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	45.26	16.72	10.97		
LAB*LABa	45.26	16.74	9.59		
LAB*TC _{Ma}	37.5	19.29	29.82		
relative CIELAB lab*					
lab*lab	0.352	0.217	0.124		
lab*ch	0.375	0.25	0.083		
lab*nch	0.5	0.25	0.083		
relative Natural Colour (NC)					
lab*trj	0.352	0.248	0.03		
lab*nce	0.375	0.25	0.019		
lab*nce	0.5	0.25	0.07		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.92	17.08	9.66		
LAB*LABa	25.92	16.73	9.59		
LAB*TC _{Ma}	12.5	19.29	29.82		
relative CIELAB lab*					
lab*lab	0.102	0.217	0.124		
lab*ch	0.125	0.25	0.083		
lab*nch	0.75	0.25	0.083		
relative Natural Colour (NC)					
lab*trj	0.102	0.248	0.03		
lab*nce	0.125	0.25	0.019		
lab*nce	0.75	0.25	0.07		

$n^* = 1.0$

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

chromaticness c^*

$n^* = 1.0$

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

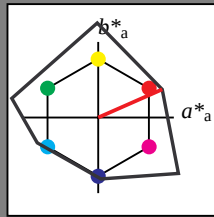
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

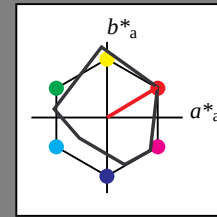
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness



%Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	

standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	95.41	0.0	0.0		
LAB*LABc	95.41	0.0	0.0		
LAB*LABd	95.41	0.0	0.0		
LAB*LABe	95.41	0.0	0.0		
LAB*LABf	95.41	0.0	0.0		
LAB*LABg	95.41	0.0	0.0		
LAB*LABh	95.41	0.0	0.0		
LAB*LABi	95.41	0.0	0.0		
LAB*LABj	95.41	0.0	0.0		
LAB*LABk	95.41	0.0	0.0		
LAB*LABl	95.41	0.0	0.0		
LAB*LABm	95.41	0.0	0.0		
LAB*LABn	95.41	0.0	0.0		
LAB*LABo	95.41	0.0	0.0		
LAB*LABp	95.41	0.0	0.0		
LAB*LABq	95.41	0.0	0.0		
LAB*LABr	95.41	0.0	0.0		
LAB*LABs	95.41	0.0	0.0		
LAB*LABt	95.41	0.0	0.0		
LAB*LABu	95.41	0.0	0.0		
LAB*LABv	95.41	0.0	0.0		
LAB*LABw	95.41	0.0	0.0		
LAB*LABx	95.41	0.0	0.0		
LAB*LABy	95.41	0.0	0.0		
LAB*LABz	95.41	0.0	0.0		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	

standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*LABb	56.71	0.0	0.0		
LAB*LABc	56.71	0.0	0.0		
LAB*LABd	56.71	0.0	0.0		
LAB*LABe	56.71	0.0	0.0		
LAB*LABf	56.71	0.0	0.0		
LAB*LABg	56.71	0.0	0.0		
LAB*LABh	56.71	0.0	0.0		
LAB*LABi	56.71	0.0	0.0		
LAB*LABj	56.71	0.0	0.0		
LAB*LABk	56.71	0.0	0.0		
LAB*LABl	56.71	0.0	0.0		
LAB*LABm	56.71	0.0	0.0		
LAB*LABn	56.71	0.0	0.0		
LAB*LABo	56.71	0.0	0.0		
LAB*LABp	56.71	0.0	0.0		
LAB*LABq	56.71	0.0	0.0		
LAB*LABr	56.71	0.0	0.0		
LAB*LABs	56.71	0.0	0.0		
LAB*LABt	56.71	0.0	0.0		
LAB*LABu	56.71	0.0	0.0		
LAB*LABv	56.71	0.0	0.0		
LAB*LABw	56.71	0.0	0.0		
LAB*LABx	56.71	0.0	0.0		
LAB*LABy	56.71	0.0	0.0		
LAB*LABz	56.71	0.0	0.0		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	

standard and adapted CIELAB					
LAB*LAB	37.36	0.0	0.0		
LAB*LABa	37.36	0.0	0.0		
LAB*LABb	37.36	0.0	0.0		
LAB*LABc	37.36	0.0	0.0		
LAB*LABd	37.36	0.0	0.0		
LAB*LABe	37.36	0.0	0.0		
LAB*LABf	37.36	0.0	0.0		
LAB*LABg	37.36	0.0	0.0		
LAB*LABh	37.36	0.0	0.0		
LAB*LABi	37.36	0.0	0.0		
LAB*LABj	37.36	0.0	0.0		
LAB*LABk	37.36	0.0	0.0		
LAB*LABl	37.36	0.0	0.0		
LAB*LABm	37.36	0.0	0.0		
LAB*LABn	37.36	0.0	0.0		
LAB*LABo	37.36	0.0	0.0		
LAB*LABp	37.36	0.0	0.0		
LAB*LABq	37.36	0.0	0.0		
LAB*LABr	37.36	0.0	0.0		
LAB*LABs	37.36	0.0	0.0		
LAB*LABt	37.36	0.0	0.0		
LAB*LABu	37.36	0.0	0.0		
LAB*LABv	37.36	0.0	0.0		
LAB*LABw	37.36	0.0	0.0		
LAB*LABx	37.36	0.0	0.0		
LAB*LABy	37.36	0.0	0.0		
LAB*LABz	37.36	0.0	0.0		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	

standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.1	0.02		
LAB*LABb	18.02	0.1	0.02		
LAB*LABc	18.02	0.1	0.02		
LAB*LABd	18.02	0.1	0.02		
LAB*LABe	18.02	0.1	0.02		
LAB*LABf	18.02	0.1	0.02		
LAB*LABg	18.02	0.1	0.02		
LAB*LABh	18.02	0.1	0.02		
LAB*LABi	18.02	0.1	0.02		
LAB*LABj	18.02	0.1	0.02		
LAB*LABk	18.02	0.1	0.02		
LAB*LABl	18.02	0.1	0.02		
LAB*LABm	18.02	0.1	0.02		
LAB*LABn	18.02	0.1	0.02		
LAB*LABo	18.02	0.1	0.02		
LAB*LABp	18.02	0.1	0.02		
LAB*LABq	18.02	0.1	0.02		
LAB*LABr	18.02	0.1	0.02		
LAB*LABs	18.02	0.1	0.02		
LAB*LABt	18.02	0.1	0.02		
LAB*LABu	18.02	0.1	0.02		
LAB*LABv	18.02	0.1	0.02		
LAB*LABw	18.02	0.1	0.02		
LAB*LABx	18.02	0.1	0.02		
LAB*LABy	18.02	0.1	0.02		
LAB*LABz	18.02	0.1	0.02		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 31/360 = 0.086 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

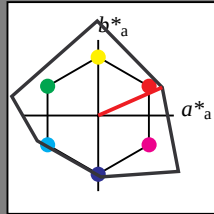
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

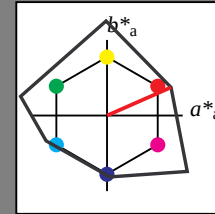
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	1.0	0.0	0.0	0.0	(1.0)
LAB*LAB	95.41	0.0	0.0	0.0	-0.01
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	99.99	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	99.99	0.01	-	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.75	0.25	0.25	0.25	(1.0)
LAB*LAB	76.07	0.0	0.0	0.0	-0.005
LAB*LABa	76.07	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	75.0	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	0.75	0.0	0.0	0.0	0.0
LAB*LAB	63.99	21.2	9.32	0.0	0.0
LAB*LABa	63.99	21.16	9.31	0.0	0.0
LAB*TC _{Ma}	62.5	23.12	23.75	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.5	0.5	0.5	0.5	(1.0)
LAB*LAB	59.72	0.0	0.0	0.0	-0.005
LAB*LABa	59.72	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	50.0	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	0.5	0.0	0.0	0.0	0.0
LAB*LAB	44.64	21.16	9.31	0.0	0.0
LAB*LABa	44.64	21.16	9.31	0.0	0.0
LAB*TC _{Ma}	37.5	23.12	23.75	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.25	0.25	0.25	0.25	(1.0)
LAB*LAB	37.37	0.0	0.0	0.0	-0.005
LAB*LABa	37.37	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	25.0	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	0.25	0.0	0.0	0.0	0.0
LAB*LAB	25.3	21.24	9.33	0.0	0.0
LAB*LABa	25.3	21.15	9.31	0.0	0.0
LAB*TC _{Ma}	12.5	23.11	23.75	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(1.0)
LAB*LAB	18.02	0.0	0.0	0.0	-0.005
LAB*LABa	18.02	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	0.01	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0	0.0	0.0
LAB*LABa	0.0	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	1.0	0.0	0.0	0.0	(1.0)
LAB*LAB	95.41	0.0	0.0	0.0	-0.01
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	99.99	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	99.99	0.01	-	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.75	0.25	0.25	0.25	(1.0)
LAB*LAB	76.07	0.0	0.0	0.0	-0.005
LAB*LABa	76.07	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	75.0	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	0.75	0.0	0.0	0.0	0.0
LAB*LAB	63.99	21.2	9.32	0.0	0.0
LAB*LABa	63.99	21.16	9.31	0.0	0.0
LAB*TC _{Ma}	62.5	23.12	23.75	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.5	0.5	0.5	0.5	(1.0)
LAB*LAB	59.72	0.0	0.0	0.0	-0.005
LAB*LABa	59.72	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	50.0	0.01	-	-	-

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
standard and adapted CIELAB	0.5	0.0	0.0	0.0	0.0
LAB*LAB	44.64	21.16	9.31	0.0	0.0
LAB*LABa	44.64	21.16	9.31	0.0	0.0
LAB*TC _{Ma}	37.5	23.12	23.75	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.25	0.25	0.25	0.25	(1.0)
LAB*LAB	37.37	0.0	0.0	0.0	-0.005
LAB*LABa	37.37	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	25.0	0.01	-	-	-

$n^* = 0,00$

blackness n^*

$n^* = 0,50$

chromaticness c^*

naticness c^*

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

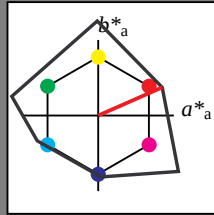
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

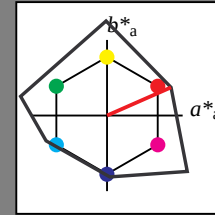
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



%Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.0	0.0	0.066	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.066	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.75	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

NCS11; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

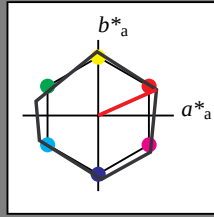
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

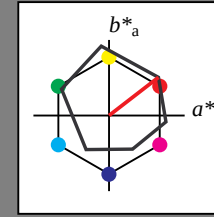
D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.54	15.58	16.58		
LAB*LABa	83.54	16.34	12.62		
LAB*TC _{Ma}	87.5	20.65	37.7		
relative CIELAB lab*					
lab*lab	0.847	0.198	0.153		
lab*ch	0.875	0.25	0.105		
lab*nch	0.0	0.25	0.105		
relative Natural Colour (NC)					
lab*trj	0.847	0.25	0.105		
lab*nce	0.875	0.25	0.048		
lab*nce	0.0	0.25	r19		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.19	15.36	15.28		
LAB*LABa	64.19	16.34	12.63		
LAB*TC _{Ma}	62.5	20.65	37.7		
relative CIELAB lab*					
lab*lab	0.597	0.198	0.153		
lab*ch	0.625	0.25	0.105		
lab*nch	0.25	0.25	0.105		
relative Natural Colour (NC)					
lab*trj	0.597	0.25	0.105		
lab*nce	0.625	0.25	0.048		
lab*nce	0.25	0.25	r19		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.33	25.33	27.11		
LAB*LABa	52.33	32.69	25.26		
LAB*TC _{Ma}	50.0	41.3	37.7		
relative CIELAB lab*					
lab*lab	0.443	0.396	0.306		
lab*ch	0.443	0.396	0.105		
lab*nch	0.25	0.25	0.105		
relative Natural Colour (NC)					
lab*trj	0.443	0.477	0.15		
lab*nce	0.5	0.25	0.048		
lab*nce	0.25	0.25	r19		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.5	16.7	12.67		
LAB*LABa	25.5	16.34	12.62		
LAB*TC _{Ma}	12.5	20.65	37.7		
relative CIELAB lab*					
lab*lab	0.097	0.198	0.153		
lab*ch	0.125	0.25	0.105		
lab*nch	0.75	0.25	0.105		
relative Natural Colour (NC)					
lab*trj	0.097	0.25	0.105		
lab*nce	0.125	0.25	0.048		
lab*nce	0.75	0.25	r19		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

relative Inform. Technology (IT)				
olvi3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olvi4*	1.0	0.5	0.5	1.0
cmyn4*	0.0	0.5	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	71.67	32.15	28.41	
LAB*LABa	71.67	32.68	25.25	

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

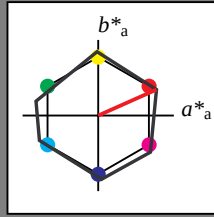
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

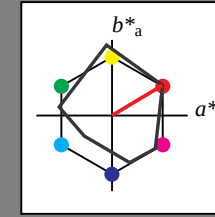
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.0	0.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	64.61	16.74	10.02		
LAB*LABa	64.61	16.7	10.01		
LAB*TC _{Ha}	62.5	19.47	30.93		
relative CIELAB lab*					
lab*lab	0.602	0.214	0.128		
lab*ch	0.625	0.25	0.086		
lab*nch	0.25	0.25	0.086		
relative Natural Colour (NC)					
lab*trj	0.602	0.248	0.032		
lab*nce	0.625	0.25	0.02		
lab*nce	0.25	0.25	0.086		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	0.5	
cmyn4*	0.0	0.25	0.25	0.5	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01		
LAB*LABa	37.36	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	0.25	
cmyn4*	0.0	0.25	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	25.92	16.78	10.03		
LAB*LABa	25.92	16.69	10.0		
LAB*TC _{Ha}	12.5	19.46	30.93		
relative CIELAB lab*					
lab*lab	0.102	0.214	0.128		
lab*ch	0.125	0.25	0.086		
lab*nch	0.75	0.25	0.086		
relative Natural Colour (NC)					
lab*trj	0.102	0.248	0.032		
lab*nce	0.125	0.25	0.02		
lab*nce	0.75	0.25	0.086		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	0.25	
cmyn4*	0.0	0.25	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	25.92	16.78	10.03		
LAB*LABa	25.92	16.69	10.0		
LAB*TC _{Ha}	12.5	19.46	30.93		
relative CIELAB lab*					
lab*lab	0.102	0.214	0.128		
lab*ch	0.125	0.25	0.086		
lab*nch	0.75	0.25	0.086		
relative Natural Colour (NC)					
lab*trj	0.102	0.248	0.032		
lab*nce	0.125	0.25	0.02		
lab*nce	0.75	0.25	0.086		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

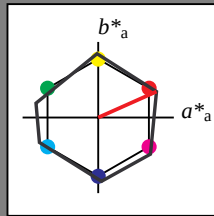
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*ice	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*ice	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*ice	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.07	0.01		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*ice	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.09	0.02		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*ice	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

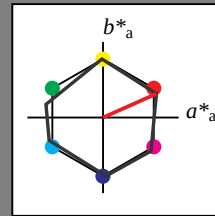
D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	1.0	
cmyn4*	0.0	0.25	0.25	0.0	
standard and adapted CIELAB					
LAB*LAB	85.73	17.68	7.86		
LAB*LABa	85.73	17.66	7.86		
LAB*TC _{Ha}	87.5	19.33	24.01		
relative CIELAB lab*					
lab*lab	0.875	0.228	0.102		
lab*ch	0.875	0.25	0.067		
lab*nch	0.0	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.875	0.25	0.004		
lab*ice	0.875	0.25	0.997		
lab*nce	0.0	0.25	0.997		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	0.5	
cmyn4*	0.0	0.25	0.25	0.25	
standard and adapted CIELAB					
LAB*LAB	66.38	17.71	7.89		
LAB*LABa	66.38	17.66	7.87		
LAB*TC _{Ha}	62.5	19.34	24.01		
relative CIELAB lab*					
lab*lab	0.625	0.228	0.102		
lab*ch	0.625	0.25	0.067		
lab*nch	0.25	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.625	0.25	0.004		
lab*ice	0.625	0.25	0.997		
lab*nce	0.25	0.25	0.997		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	0.5	
cmyn4*	0.0	0.25	0.25	0.5	
standard and adapted CIELAB					
LAB*LAB	56.7	35.38	15.75		
LAB*LABa	56.7	35.33	15.73		
LAB*TC _{Ha}	50.0	38.67	24.01		
relative CIELAB lab*					
lab*lab	0.5	0.457	0.203		
lab*ch	0.5	0.5	0.067		
lab*nch	0.25	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.5	0.5	0.009		
lab*ice	0.5	0.5	0.997		
lab*nce	0.25	0.5	0.997		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	0.25	
cmyn4*	0.0	0.25	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	27.69	17.66	7.86		
LAB*LABa	27.69	17.66	7.86		
LAB*TC _{Ha}	12.5	19.33	24.01		
relative CIELAB lab*					
lab*lab	0.125	0.228	0.102		
lab*ch	0.125	0.25	0.067		
lab*nch	0.75	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.125	0.25	0.004		
lab*ice	0.125	0.25	0.997		
lab*nce	0.75	0.25	0.997		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

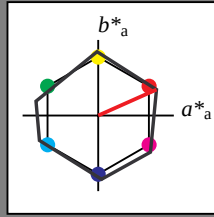
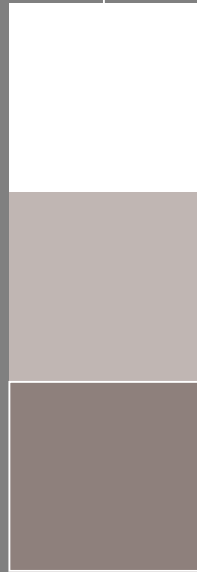
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

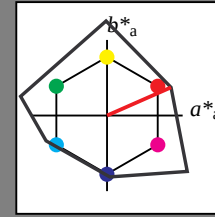
1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.34	21.17	9.31		
LAB*LABa	83.34	21.15	9.31		
LAB*TC _{Ha}	87.5	23.11	23.75		
relative CIELAB lab*					
lab*lab	0.844	0.229	0.101		
lab*ch	0.875	0.25	0.066		
lab*nch	0.0	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.844	0.25	-0.005		
lab*nce	0.875	0.25	0.996		
lab*nce	0.0	0.25	0.996		
relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	63.99	21.2	9.32		
LAB*LABa	63.99	21.16	9.31		
LAB*TC _{Ha}	62.5	23.12	23.75		
relative CIELAB lab*					
lab*lab	0.594	0.229	0.101		
lab*ch	0.625	0.25	0.066		
lab*nch	0.25	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.594	0.25	-0.005		
lab*nce	0.625	0.25	0.996		
lab*nce	0.25	0.25	0.996		
relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	44.64	21.22	9.33		
LAB*LABa	44.64	21.16	9.31		
LAB*TC _{Ha}	37.5	23.12	23.75		
relative CIELAB lab*					
lab*lab	0.344	0.229	0.101		
lab*ch	0.375	0.25	0.066		
lab*nch	0.5	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.344	0.25	-0.005		
lab*nce	0.375	0.25	0.996		
lab*nce	0.5	0.25	0.996		
relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.3	21.24	9.33		
LAB*LABa	25.3	21.15	9.31		
LAB*TC _{Ha}	12.5	23.11	23.75		
relative CIELAB lab*					
lab*lab	0.094	0.229	0.101		
lab*ch	0.125	0.25	0.066		
lab*nch	0.75	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.094	0.25	-0.005		
lab*nce	0.125	0.25	0.996		
lab*nce	0.75	0.25	0.996		

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272



% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.34	24.17	9.31		
LAB*LABa	83.34	24.15	9.31		
LAB*TC _{Ha}	83.34	24.15	9.31		
relative CIELAB LAB					
lab*lab	0.94	0.25	0.29	1.01	
lab*lab ^a	0.87	0.25	0.25	0.66	
lab*lab ^b	0.87	0.25	0.25	0.66	
lab*lab ^c	0.87	0.25	0.25	0.66	
relative Natural Colour (NC)					
lab* ^a	0.84	0.25	0.25	0.905	
lab* ^b	0.87	0.25	0.25	0.996	
lab* ^c	0.87	0.25	0.25	0.996	
lab* ^{NC}	0.87	0.25	0.25	0.996	
relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	63.99	21.12	9.32		
LAB*LABa	63.99	21.16	9.31		
LAB*TC _{Ha}	63.99	21.12	9.32		
relative CIELAB LAB					
lab*lab	0.594	0.229	0.101	0.161	
lab*lab ^a	0.625	0.25	0.066	0.066	
lab*lab ^b	0.25	0.25	0.066	0.066	
lab*lab ^c	0.625	0.25	0.066	0.066	
relative Natural Colour (NC)					
lab* ^a	0.594	0.25	0.066	0.005	
lab* ^b	0.625	0.25	0.066	0.996	
lab* ^c	0.625	0.25	0.066	0.996	
lab* ^{NC}	0.625	0.25	0.066	0.996	
relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(0.0)	
cmyn3*	0.5	0.75	0.75	(1.0)	
olvi4*	0.5	0.25	0.25	(0.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	44.64	21.12	9.33		
LAB*LABa	44.64	21.16	9.31		
LAB*TC _{Ha}	44.64	21.12	9.33		
relative CIELAB LAB					
lab*lab	0.344	0.229	0.101	0.161	
lab*lab ^a	0.375	0.25	0.066	0.066	
lab*lab ^b	0.375	0.25	0.066	0.066	
lab*lab ^c	0.375	0.25	0.066	0.066	
relative Natural Colour (NC)					
lab* ^a	0.344	0.25	0.066	0.005	
lab* ^b	0.375	0.25	0.066	0.996	
lab* ^c	0.375	0.25	0.066	0.996	
lab* ^{NC}	0.375	0.25	0.066	0.996	
relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(0.0)	
cmyn3*	0.75	0.25	0.25	(1.0)	
olvi4*	0.0	0.75	0.75	(0.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.3	21.24	9.33		
LAB*LABa	25.3	21.24	9.33		
LAB*TC _{Ha}	25.3	21.24	9.33		
relative CIELAB LAB					
lab*lab	0.125	0.231	0.2375		
lab*lab ^a	0.125	0.231	0.2375		
lab*lab ^b	0.125	0.231	0.2375		
lab*lab ^c	0.125	0.231	0.2375		
relative Natural Colour (NC)					
lab* ^a	0.094	0.25	0.005		
lab* ^b	0.125	0.25	0.066		
lab* ^c	0.125	0.25	0.066		
lab* ^{NC}	0.75	0.25	0.996		

0.25

0.75

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

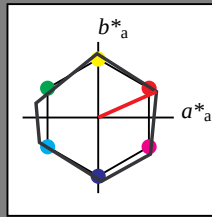
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ha}	75.01	-			
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

$n^* = 1,0$

chromaticness c^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

lab^*tch and lab^*nch

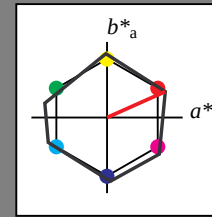
D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	1.0	(1.0)
cmyn4*	0.0	0.25	0.25	0.0	
standard and adapted CIELAB					
LAB*LAB	84.85	19.28	8.58		
LAB*LABa	84.85	19.28	8.58		
LAB*TC _{Ha}	87.5	21.08	24.01		
relative CIELAB lab*					
lab*lab	0.875	0.228	0.102		
lab*ch	0.875	0.25	0.067		
lab*nch	0.0	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.875	0.25	0.067		
lab*nce	0.0	0.25	0.067		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	0.5	(1.0)
cmyn3*	0.25	0.5	0.5	0.5	(0.0)
olvi4*	1.0	0.75	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	0.25	
standard and adapted CIELAB					
LAB*LAB	63.75	19.3	8.59		
LAB*LABa	63.75	19.26	8.58		
LAB*TC _{Ha}	62.5	21.09	24.01		
relative CIELAB lab*					
lab*lab	0.625	0.228	0.102		
lab*ch	0.625	0.25	0.067		
lab*nch	0.25	0.25	0.067		
relative Natural Colour (NC)					
lab*trj	0.625	0.25	0.067		
lab*nce	0.25	0.25	0.067		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	0.25	(1.0)
cmyn3*	0.5	0.25	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	0.5	
cmyn4*	0.0	0.25	0.25	0.5	
standard and adapted CIELAB					
LAB*LAB	53.2	38.57	17.17		
LAB*LABa	53.2	38.53	17.16		
LAB*TC _{Ha}	50.0	42.18	24.01		
relative CIELAB lab*					
lab*lab	0.5	0.457	0.203		
lab*ch	0.5	0.5	0.067		
lab*nch	0.25	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.5	0.5	0.067		
lab*nce	0.25	0.5	0.067		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	0.0	(1.0)
cmyn3*	0.75	1.0	1.0	1.0	(0.0)
olvi4*	1.0	0.75	0.75	0.25	
cmyn4*	0.0	0.25	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	32.1	38.58	17.17		
LAB*LABa	32.1	38.52	17.16		
LAB*TC _{Ha}	25.01	42.17	24.01		
relative CIELAB lab*					
lab*lab	0.25	0.457	0.203		
lab*ch	0.25	0.5	0.067		
lab*nch	0.25	0.5	0.067		
relative Natural Colour (NC)					
lab*trj	0.25	0.5	0.067		
lab*nce	0.25	0.5	0.067		

add file	0.75	0.25	0.98
	0,25		
for constant CIELAB l			

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

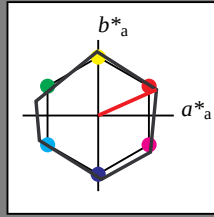
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

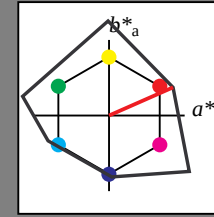
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.0	0.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	20.04	0.10	0.01		
LAB*LABa	20.04	0.10	0.01		
LAB*TCHa	12.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)				
olvi3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	1.0
cmyn4*	0.0	0.25	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	83.34	21.17	9.31	
LAB*LAB ₀	83.34	21.15	9.31	

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

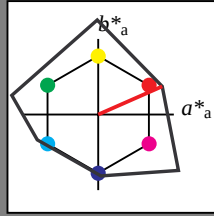
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

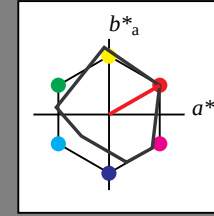
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.61	16.35	12.27		
LAB*LABa	64.61	16.74	9.59		
LAB*TCBa	62.5	19.29	29.82		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCBa	50.0	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	45.26	16.72	10.97		
LAB*LABa	45.26	16.74	9.59		
LAB*TCBa	37.5	19.29	29.82		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCBa	25.0	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.92	17.08	9.66		
LAB*LABa	25.92	16.73	9.59		
LAB*TCBa	12.5	19.29	29.82		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCBa	0.01	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	10.02	0.248	0.03		
LAB*LABa	10.02	0.25	0.019		
LAB*TCBa	0.0	0.25	0.07		

$n^* = 1,0$

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)					
olvi3*	1.0	0.25	0.25	(1.0)	
cmyn3*	0.0	0.75	0.75	(0.0)	
olvi4*	1.0	0.25	0.25	(1.0)	
cmyn4*	0.0	0.75	0.75	(0.0)	
standard and adapted CIELAB					
LAB*LAB	61.07	49.88	31.22		
LAB*LABa	61.07	50.21	28.78		
LAB*TCBa	62.5	57.87	29.82		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.5	0.5	(1.0)	
cmyn4*	0.0	0.5	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.17	33.31	21.09		
LAB*LABa	53.17	33.48	19.19		
LAB*TCBa	50.0	38.59	29.82		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.25	0.25	(1.0)	
cmyn4*	0.0	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	41.73	50.26	29.91		
LAB*LABa	41.73	50.21	28.78		
LAB*TCBa	37.51	57.87	29.82		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.75	0.75	(0.0)	
standard and adapted CIELAB					
LAB*LAB	30.06	0.248	0.09		
LAB*LABa	30.06	0.25	0.019		
LAB*TCBa	0.0	0.25	0.07		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	(1.0)	
cmyn4*	0.0	0.75	0.75	(0.0)	
standard and adapted CIELAB					
LAB*LAB	20.04	0.248	0.06		
LAB*LABa	20.04	0.25	0.019		
LAB*TCBa	0.0	0.25	0.07		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	10.02	0.248	0.03		
LAB*LABa	10.02	0.25	0.019		
LAB*TCBa	0.0	0.25	0.07		

5	1,00
chromaticness (C _u)	

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1$

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

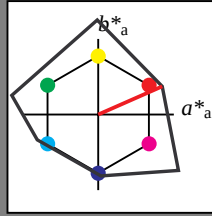
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 24/360 = 0.067$

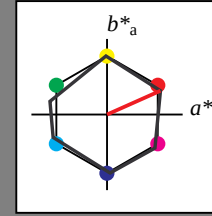
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

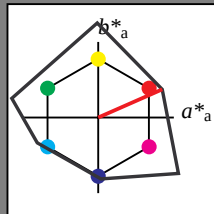
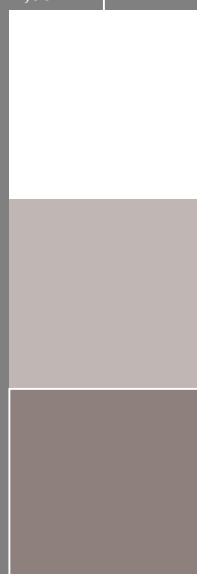
D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 24/360 = 0.066$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

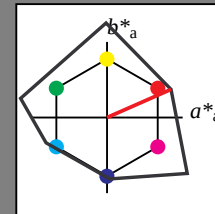
1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	83.34	21.17	9.31		
LAB*LABa	83.34	21.15	9.31		
LAB*TC _{Ha}	87.5	23.11	23.75		
relative CIELAB lab*					
lab*lab	0.844	0.229	0.101		
lab*ch	0.875	0.25	0.066		
lab*nch	0.0	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.844	0.25	-0.005		
lab*nce	0.875	0.25	0.996		
lab*nce	0.0	0.25	0.996		
relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	(1.0)	
cmyn3*	0.25	0.5	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	0.5	
cmyn4*	0.0	0.25	0.25	0.25	
standard and adapted CIELAB					
LAB*LAB	63.99	21.2	9.32		
LAB*LABa	63.99	21.16	9.31		
LAB*TC _{Ha}	62.5	23.12	23.75		
relative CIELAB lab*					
lab*lab	0.594	0.229	0.101		
lab*ch	0.625	0.25	0.066		
lab*nch	0.25	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.594	0.25	-0.005		
lab*nce	0.625	0.25	0.996		
lab*nce	0.25	0.25	0.996		
relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	0.5	
cmyn4*	0.0	0.25	0.25	0.5	
standard and adapted CIELAB					
LAB*LAB	44.64	21.22	9.33		
LAB*LABa	44.64	21.16	9.31		
LAB*TC _{Ha}	37.5	23.12	23.75		
relative CIELAB lab*					
lab*lab	0.344	0.229	0.101		
lab*ch	0.375	0.25	0.066		
lab*nch	0.5	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.344	0.25	-0.005		
lab*nce	0.375	0.25	0.996		
lab*nce	0.5	0.25	0.996		
relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	(1.0)	
cmyn3*	0.75	1.0	1.0	(0.0)	
olvi4*	1.0	0.75	0.75	0.25	
cmyn4*	0.0	0.25	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	25.3	21.24	9.33		
LAB*LABa	25.3	21.15	9.31		
LAB*TC _{Ha}	12.5	23.11	23.75		
relative CIELAB lab*					
lab*lab	0.094	0.229	0.101		
lab*ch	0.125	0.25	0.066		
lab*nch	0.75	0.25	0.066		
relative Natural Colour (NC)					
lab*trj	0.094	0.25	-0.005		
lab*nce	0.125	0.25	0.996		
lab*nce	0.75	0.25	0.996		

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272



% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	1.0	
cmyn4*	0.0	0.25	0.25	0.0	
standard and adapted CIELAB					
LAB*LAB	83.34	21.17	9.31		
LAB*TChe	83.34	21.15	9.31		
LAB*TChe	87.15	23.11	23.75		
relative CIELAB Lab*					
lab*lab	0.844	0.229	0.10		
lab*rch	0.875	0.25	0.066		
lab*rch	0.0	0.25	0.25	0.066	
relative Natural Colour (NC)					
lab*lr	0.844	0.25	0.0005		
lab*lr	0.875	0.25	0.066		
lab*nc	0.0	0.25	0.25	0.066	
relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	1.0	
cmyn4*	0.0	0.25	0.25	0.0	
standard and adapted CIELAB					
LAB*LAB	63.99	21.2	9.32		
LAB*TChe	63.99	21.16	9.31		
LAB*TChe	62.15	23.12	23.75		
relative CIELAB Lab*					
lab*lab	0.534	0.229	0.10		
lab*rch	0.625	0.25	0.066		
lab*rch	0.0	0.25	0.25	0.066	
relative Natural Colour (NC)					
lab*lr	0.594	0.25	0.0005		
lab*lr	0.625	0.25	0.066		
lab*nc	0.0	0.25	0.25	0.066	
relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.0	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	1.0	
cmyn4*	0.0	0.25	0.25	0.0	
standard and adapted CIELAB					
LAB*LAB	44.64	21.22	9.33		
LAB*TChe	44.64	21.16	9.31		
LAB*TChe	37.5	23.12	23.75		
relative CIELAB Lab*					
lab*lab	0.344	0.229	0.10		
lab*rch	0.375	0.25	0.066		
lab*rch	0.0	0.25	0.25	0.066	
relative Natural Colour (NC)					
lab*lr	0.344	0.25	0.0005		
lab*lr	0.375	0.25	0.066		
lab*nc	0.0	0.25	0.25	0.066	
relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	(1.0)	
cmyn3*	0.75	1.0	0.75	(0.0)	
olvi4*	1.0	0.75	0.75	1.0	
cmyn4*	0.75	1.0	0.75	0.0	
standard and adapted CIELAB					
LAB*LAB	25.3	21.24	9.33		
LAB*TChe	25.3	21.16	9.31		
LAB*TChe	12.5	23.11	23.75		
relative CIELAB Lab*					
lab*lab	0.094	0.229	0.10		
lab*rch	0.125	0.25	0.066		
lab*rch	0.0	0.25	0.25	0.066	
relative Natural Colour (NC)					
lab*lr	0.094	0.25	0.0005		
lab*lr	0.125	0.25	0.066		
lab*nc	0.0	0.25	0.25	0.066	

0.25

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

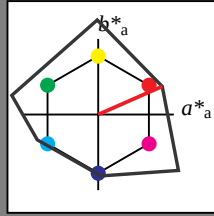
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 24/360 = 0.066 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

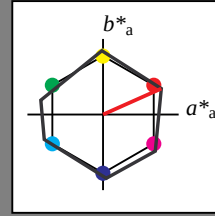
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

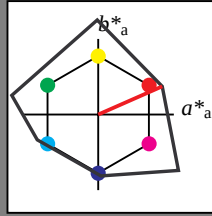
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

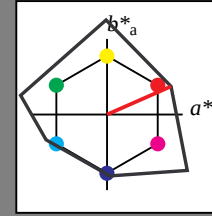
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*LABa = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 74.31$
 $LAB^*LABa = 74.31$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 62.24$
 $LAB^*LABa = 62.24$
 $LAB^*TCha = 62.5$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 53.21$
 $LAB^*LABa = 53.21$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*LABa = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 74.31$
 $LAB^*LABa = 74.31$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 62.24$
 $LAB^*LABa = 62.24$
 $LAB^*TCha = 62.5$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 53.21$
 $LAB^*LABa = 53.21$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

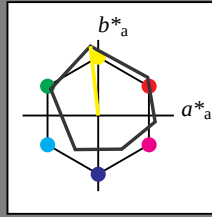
LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

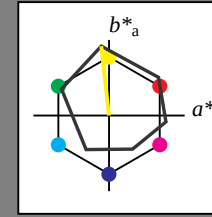
LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

<i>lab*lrj</i>	0.5	0.0	0.0
<i>lab*lce</i>	0.5	0.0	-
<i>lab*nce</i>	0.5	0.0	-

relative Inform. Technology (IT)				
<i>olvi3*</i>	0.25	0.25	0.25	(1.0)
<i>cmyn3*</i>	0.75	0.75	0.75	(0.0)
<i>olvi4*</i>	1.0	1.0	1.0	0.25

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

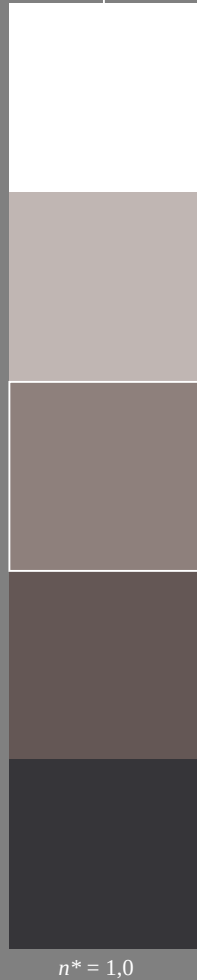
D65: hue Y

LCH*Ma: 90 92 96

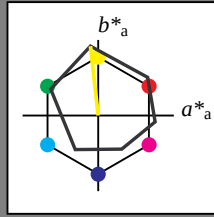
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

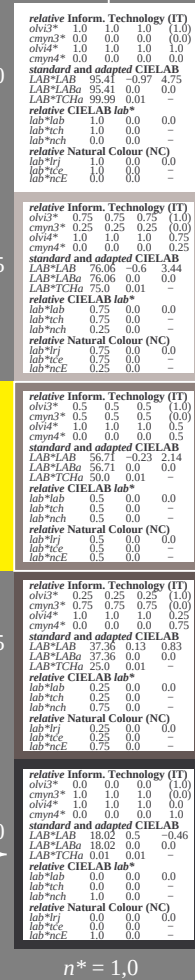
D65: hue J

LCH*Ma: 91 89 94

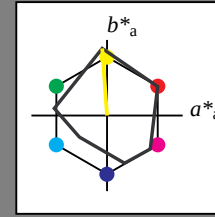
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

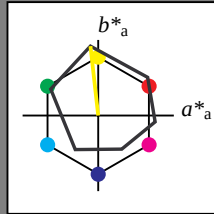
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

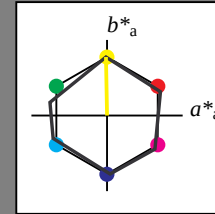
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

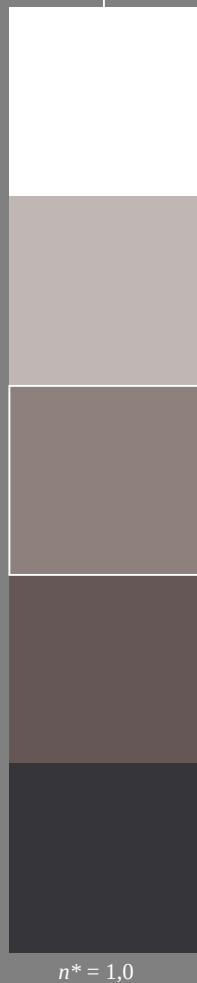
D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

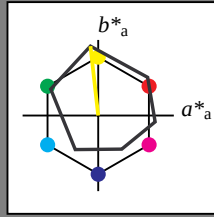
triangle lightness

1,00



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

chromaticness c^*

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

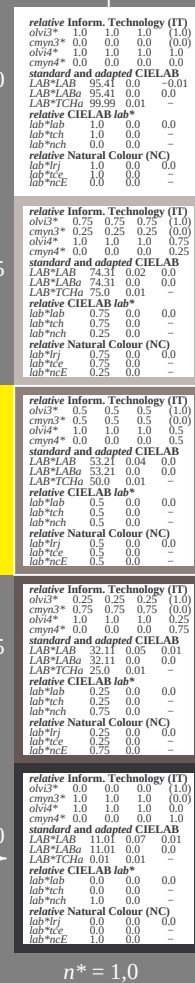
D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

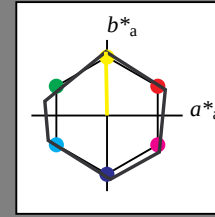
triangle lightness

1,00



$n^* = 1,0$

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

chromaticness c^*

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

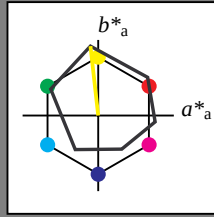
D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

lab^*tch and lab^*nch

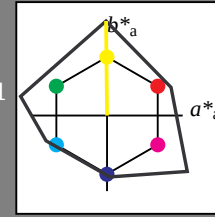
D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	94.39	-0.3	31.24		
LAB*LABa	94.39	-0.31	31.24		
LAB*TCHa	87.5	31.25	90.59		
relative CIELAB lab*					
lab*lab	0.988	-0.002	0.25		
lab*ch	0.875	0.25	0.252		
lab*nch	0.0	0.25	0.252		
relative Natural Colour (NC)					
lab*trj	0.988	0.01	0.25		
lab*nce	0.875	0.25	0.243		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	73.3	-0.25	31.26		
LAB*LABa	73.3	-0.31	31.26		
LAB*TCHa	62.5	31.26	90.59		
relative CIELAB lab*					
lab*lab	0.738	-0.002	0.25		
lab*ch	0.625	0.25	0.252		
lab*nch	0.25	0.25	0.252		
relative Natural Colour (NC)					
lab*trj	0.738	0.01	0.25		
lab*nce	0.625	0.25	0.243		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	31.09	-0.25	31.26		
LAB*LABa	31.09	-0.31	31.24		
LAB*TCHa	12.5	31.25	90.59		
relative CIELAB lab*					
lab*lab	0.238	-0.002	0.25		
lab*ch	0.125	0.25	0.252		
lab*nch	0.75	0.25	0.252		
relative Natural Colour (NC)					
lab*trj	0.238	0.01	0.25		
lab*nce	0.125	0.25	0.243		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	51.18	-0.59	62.51		
LAB*LABa	51.18	-0.63	62.51		
LAB*TCHa	25.01	62.5	90.59		
relative CIELAB lab*					
lab*lab	0.476	-0.004	0.5		
lab*ch	0.25	0.5	0.252		
lab*nch	0.5	0.5	0.252		
relative Natural Colour (NC)					
lab*trj	0.476	0.02	0.499		
lab*nce	0.25	0.5	0.243		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	31.09	-0.25	31.26		
LAB*LABa	31.09	-0.31	31.24		
LAB*TCHa	12.5	31.25	90.59		
relative CIELAB lab*					
lab*lab	0.238	-0.002	0.25		
lab*ch	0.125	0.25	0.252		
lab*nch	0.75	0.25	0.252		
relative Natural Colour (NC)					
lab*trj	0.238	0.01	0.25		
lab*nce	0.125	0.25	0.243		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

NCS11; adapted (a) CIELAB data

	$L^*=L_a^*$	a_a^*	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J

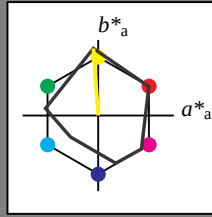
LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J

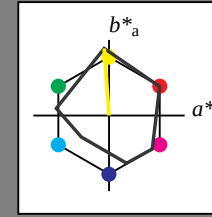
LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

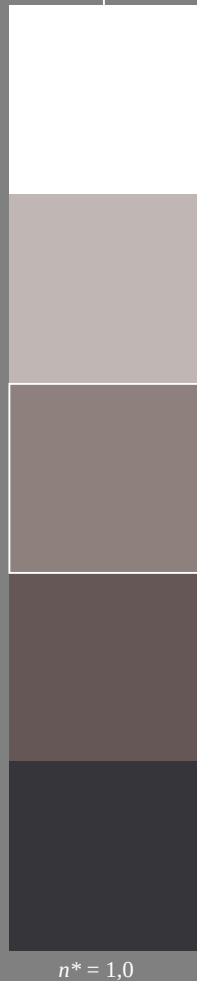
D65: hue J

LCH*Ma: 91 89 94

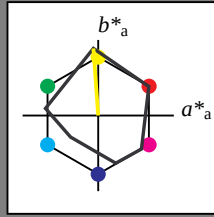
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,75

blackness n^*

$n^* = 0,50$

chromaticness c^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

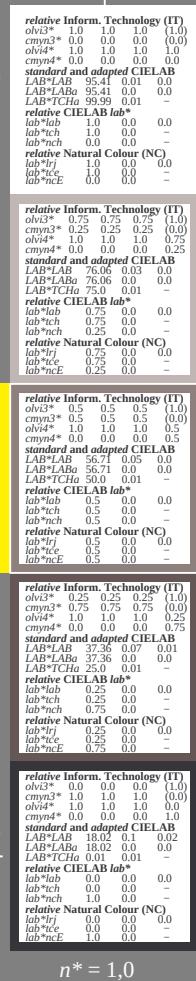
D65: hue J

LCH*Ma: 91 93 94

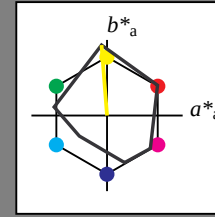
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

blackness n^*

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

5 step scales for constant CIELAB hue 94/360 = 0.262 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

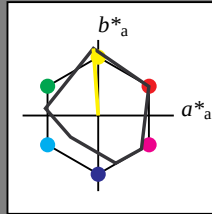
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,25

0,00

blackness n^*

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

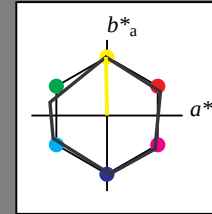
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 0,50$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

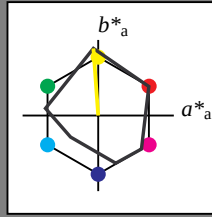
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

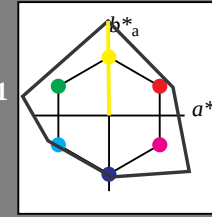
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.987	0.0	0.0	0.0	0.0
lab*tch	0.875	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.987	0.0	0.0	0.0	0.0
lab*tce	0.875	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.737	0.0	0.0	0.0	0.0
lab*tch	0.625	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.737	0.0	0.0	0.0	0.0
lab*tce	0.625	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.737	0.0	0.0	0.0	0.0
lab*tch	0.625	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.737	0.0	0.0	0.0	0.0
lab*tce	0.625	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.487	0.0	0.0	0.0	0.0
lab*tch	0.375	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.487	0.0	0.0	0.0	0.0
lab*tce	0.375	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.487	0.0	0.0	0.0	0.0
lab*tch	0.375	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.487	0.0	0.0	0.0	0.0
lab*tce	0.375	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.237	0.0	0.0	0.0	0.0
lab*tch	0.125	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.237	0.0	0.0	0.0	0.0
lab*tce	0.125	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.237	0.0	0.0	0.0	0.0
lab*tch	0.125	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.237	0.0	0.0	0.0	0.0
lab*tce	0.125	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.237	0.0	0.0	0.0	0.0
lab*tch	0.125	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.237	0.0	0.0	0.0	0.0
lab*tce	0.125	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.237	0.0	0.0	0.0	0.0
lab*tch	0.125	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.237	0.0	0.0	0.0	0.0
lab*tce	0.125	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.237	0.0	0.0	0.0	0.0
lab*tch	0.125	0.0	0		

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

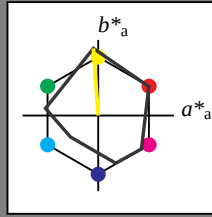
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

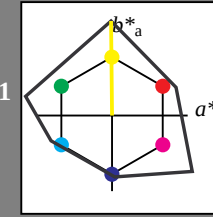
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 -0.01

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

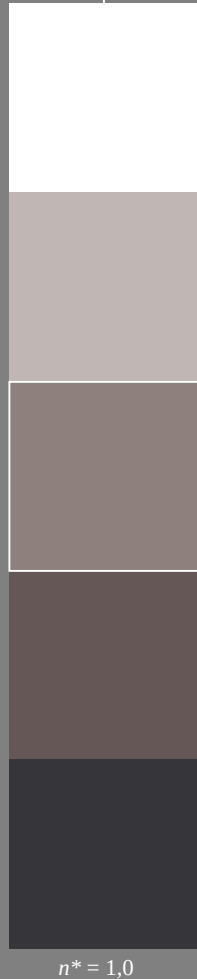
D65: hue Y

LCH*Ma: 90 92 96

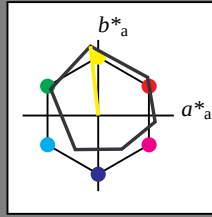
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

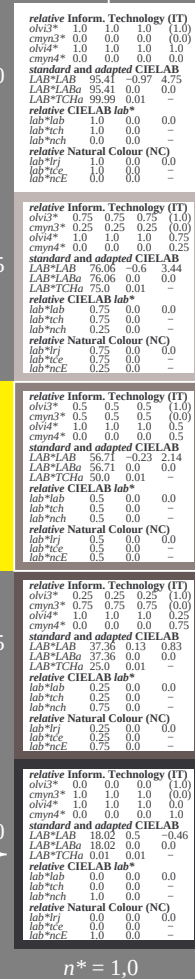
TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

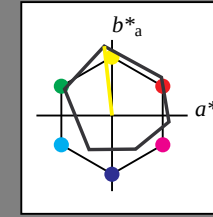
$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

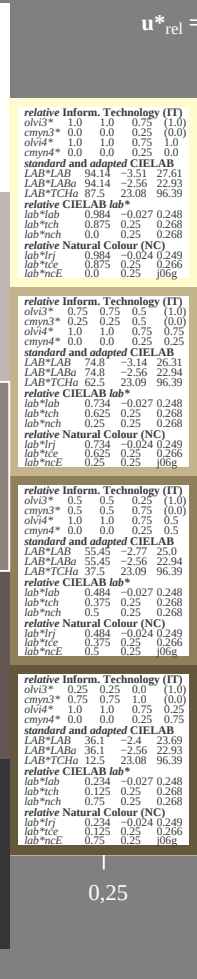
ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

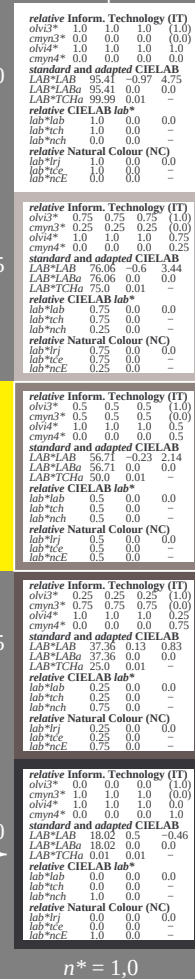
D65: hue Y

LCH*Ma: 90 92 96

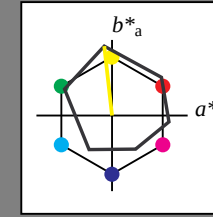
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

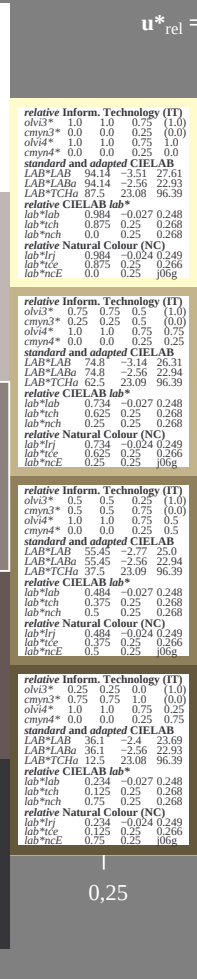
ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

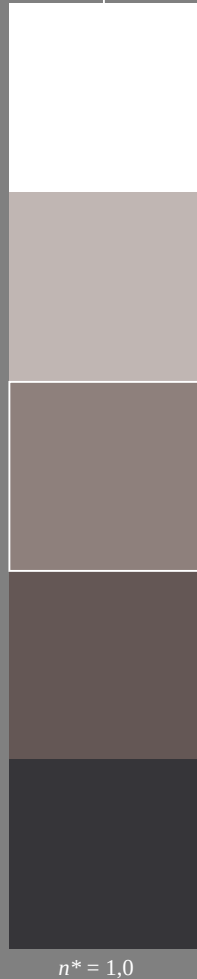
D65: hue Y

LCH*Ma: 90 92 96

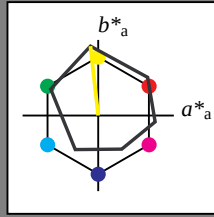
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

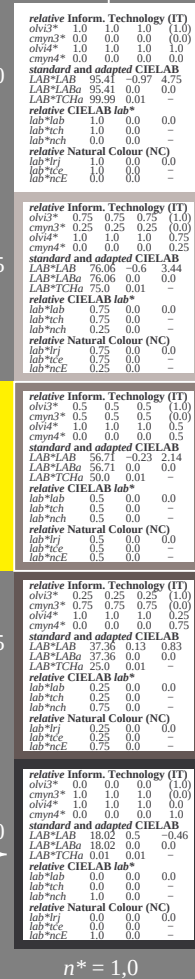
D65: hue J

LCH*Ma: 91 89 94

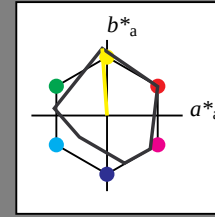
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

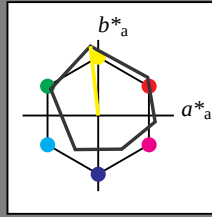
LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

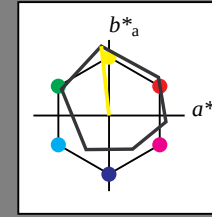
LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	-0.57	4.75	-	-
LAB*LABa	95.41	0.0	0.0	-	-
LAB*LABb	99.99	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	1.0	0.0	0.0	-	-
lab*tch	1.0	0.0	0.0	-	-
lab*nch	0.0	0.0	0.0	-	-
relative Natural Colour (NC)	1.0	0.0	0.0	-	-
lab*trj	1.0	0.0	0.0	-	-
lab*tce	0.0	0.0	0.0	-	-
lab*nce	0.0	0.0	0.0	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	76.06	-0.6	3.44	-	-
LAB*LABa	76.06	0.0	0.0	-	-
LAB*LABb	75.0	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.75	0.0	0.0	-	-
lab*tch	0.75	0.0	0.0	-	-
lab*nch	0.25	0.0	0.0	-	-
relative Natural Colour (NC)	0.75	0.0	0.0	-	-
lab*trj	0.75	0.0	0.0	-	-
lab*tce	0.25	0.0	0.0	-	-
lab*nce	0.25	0.0	0.0	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	56.71	-0.23	2.14	-	-
LAB*LABa	56.71	0.0	0.0	-	-
LAB*LABb	50.0	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.5	0.0	0.0	-	-
lab*tch	0.5	0.0	0.0	-	-
lab*nch	0.5	0.0	0.0	-	-
relative Natural Colour (NC)	0.5	0.0	0.0	-	-
lab*trj	0.5	0.0	0.0	-	-
lab*tce	0.5	0.0	0.0	-	-
lab*nce	0.5	0.0	0.0	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	37.36	-0.13	0.83	-	-
LAB*LABa	37.36	0.0	0.0	-	-
LAB*LABb	25.0	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.25	0.0	0.0	-	-
lab*tch	0.25	0.0	0.0	-	-
lab*nch	0.75	0.0	0.0	-	-
relative Natural Colour (NC)	0.25	0.0	0.0	-	-
lab*trj	0.25	0.0	0.0	-	-
lab*tce	0.25	0.0	0.0	-	-
lab*nce	0.25	0.0	0.0	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	74.8	-1.4	26.31	-	-
LAB*LABa	74.8	-2.56	22.94	-	-
LAB*LABb	62.5	23.09	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.734	-0.027	0.248	-	-
lab*tch	0.625	0.25	0.268	-	-
lab*nch	0.25	0.25	0.268	-	-
relative Natural Colour (NC)	0.734	-0.024	0.249	-	-
lab*trj	0.734	-0.024	0.249	-	-
lab*tce	0.625	0.25	0.266	-	-
lab*nce	0.25	0.25	0.068	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	73.54	-5.69	49.17	-	-
LAB*LABa	73.54	-5.13	45.88	-	-
LAB*LABb	50.0	46.16	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.717	-0.055	0.497	-	-
lab*tch	0.625	0.25	0.268	-	-
lab*nch	0.25	0.25	0.268	-	-
relative Natural Colour (NC)	0.717	-0.048	0.498	-	-
lab*trj	0.717	-0.048	0.498	-	-
lab*tce	0.625	0.25	0.266	-	-
lab*nce	0.25	0.25	0.068	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	55.45	-2.77	25.0	-	-
LAB*LABa	55.45	-2.56	22.94	-	-
LAB*LABb	37.5	23.09	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.484	-0.027	0.248	-	-
lab*tch	0.375	0.25	0.268	-	-
lab*nch	0.5	0.25	0.268	-	-
relative Natural Colour (NC)	0.484	-0.024	0.249	-	-
lab*trj	0.484	-0.024	0.249	-	-
lab*tce	0.375	0.25	0.266	-	-
lab*nce	0.5	0.25	0.068	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	36.1	-2.4	23.69	-	-
LAB*LABa	36.1	-2.56	22.93	-	-
LAB*LABb	12.5	23.08	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.234	-0.027	0.248	-	-
lab*tch	0.125	0.25	0.268	-	-
lab*nch	0.75	0.25	0.268	-	-
relative Natural Colour (NC)	0.234	-0.024	0.249	-	-
lab*trj	0.234	-0.024	0.249	-	-
lab*tce	0.125	0.25	0.266	-	-
lab*nce	0.75	0.25	0.068	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	92.88	-0.06	50.46	-	-
LAB*LABa	92.88	-5.13	45.87	-	-
LAB*LABb	75.0	46.16	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.967	-0.055	0.497	-	-
lab*tch	0.75	0.25	0.268	-	-
lab*nch	0.0	0.25	0.268	-	-
relative Natural Colour (NC)	0.967	-0.048	0.497	-	-
lab*trj	0.967	-0.048	0.497	-	-
lab*tce	0.75	0.25	0.266	-	-
lab*nce	0.0	0.25	0.068	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	73.54	-5.69	49.17	-	-
LAB*LABa	73.54	-5.13	45.88	-	-
LAB*LABb	50.0	46.16	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.717	-0.055	0.497	-	-
lab*tch	0.625	0.25	0.268	-	-
lab*nch	0.25	0.25	0.268	-	-
relative Natural Colour (NC)	0.717	-0.048	0.498	-	-
lab*trj	0.717	-0.048	0.498	-	-
lab*tce	0.625	0.25	0.266	-	-
lab*nce	0.25	0.25	0.068	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	72.28	-8.23	72.01	-	-
LAB*LABa	72.28	-7.7	68.82	-	-
LAB*LABb	37.51	69.25	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.701	-0.082	0.745	-	-
lab*tch	0.375	0.25	0.268	-	-
lab*nch	0.25	0.25	0.268	-	-
relative Natural Colour (NC)	0.701	-0.072	0.746	-	-
lab*trj	0.701	-0.072	0.746	-	-
lab*tce	0.375	0.25	0.266	-	-
lab*nce	0.25	0.25	0.068	-	-

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	54.19	-5.32	47.85	-	-
LAB*LABa	54.19	-5.13	45.87	-	-
LAB*LABb	25.01	46.16	96.39	-	-
relative CIELAB lab*	1.0	0.0	0.0	-	-
lab*lab	0.467	-0.055	0.497	-	-
lab*tch	0.25	0.25	0.268	-	-
lab*nch	0.5	0.25	0.268	-	-
relative Natural Colour (NC)	0.467	-0.048	0.497	-	-
lab*trj	0.467	-0.048	0.497	-	-
lab*tce	0.25	0.25	0.266	-	-
lab*nch	0.5	0.25	0.068	-	-

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

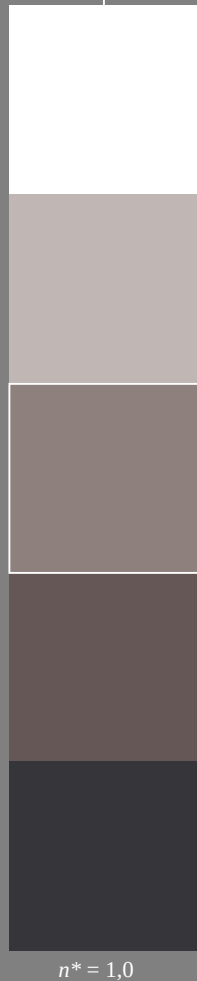
D65: hue Y

LCH*Ma: 90 92 96

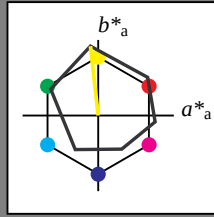
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,75

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

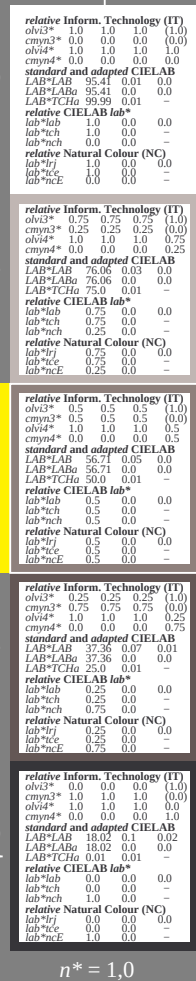
D65: hue J

LCH*Ma: 91 93 94

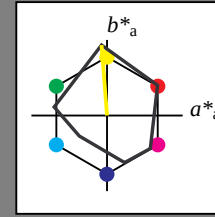
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
CMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

0,75

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIE LAB hue 96/360 = 0.268 (left)

5 step scales for constant CIE LAB hue 94/360 = 0.262 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

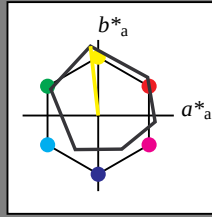
LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

% Gamut

$u^*_{rel} = 100$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.0	0.0		
LAB*LABa	37.37	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	9.01	0.0	0.0		
LAB*LABa	9.01	0.0	0.0		
LAB*TCHa	0.001	0.001	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	4.505	0.0	0.0		
LAB*LABa	4.505	0.0	0.0		
LAB*TCHa	0.0001	0.0001	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	2.2525	0.0	0.0		
LAB*LABa	2.2525	0.0	0.0		
LAB*TCHa	0.00001	0.00001	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	1.12625	0.0	0.0		
LAB*LABa	1.12625	0.0	0.0		
LAB*TCHa	0.000001	0.000001	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.563125	0.0	0.0		
LAB*LABa	0.563125	0.0	0.0		
LAB*TCHa	0.0000001	0.0000001	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.2815625	0.0	0.0		
LAB*LABa	0.2815625	0.0	0.0		
LAB*TCHa	0.00000001	0.00000001	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.14078125	0.0	0.0		
LAB*LABa	0.14078125	0.0	0.0		
LAB*TCHa	0.000000001	0.000000001	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

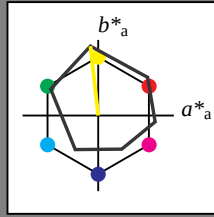
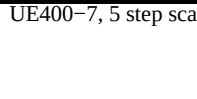
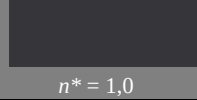
D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

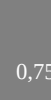
TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

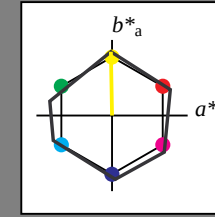
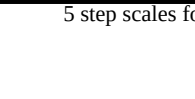
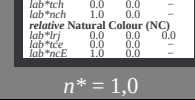
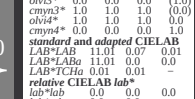
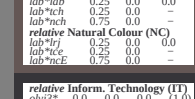
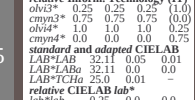
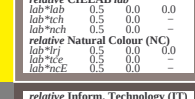
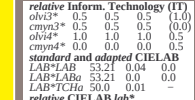
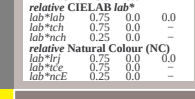
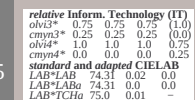
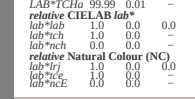
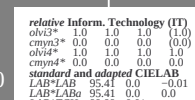
D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

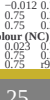
NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00



UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

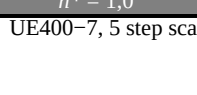
D65: hue Y

LCH*Ma: 90 92 96

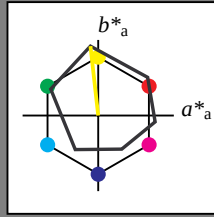
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

lab^*tch and lab^*nch

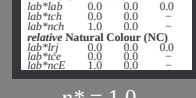
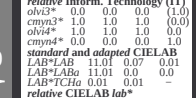
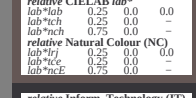
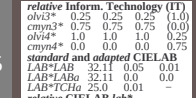
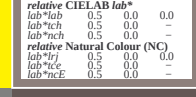
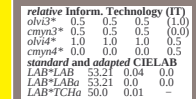
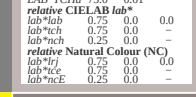
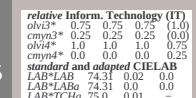
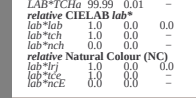
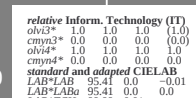
D65: hue J

LCH*Ma: 91 125 91

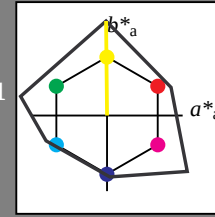
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 149$

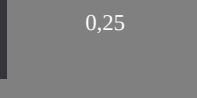
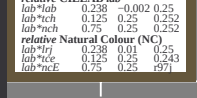
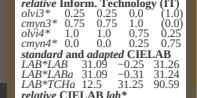
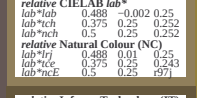
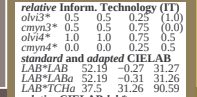
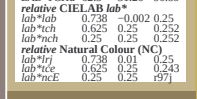
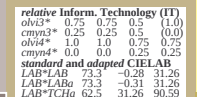
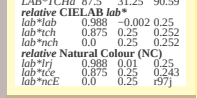
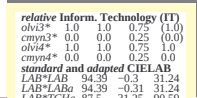
NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

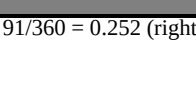
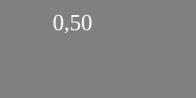
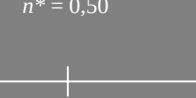
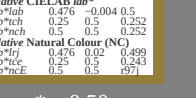
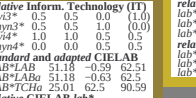
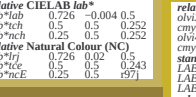
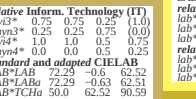
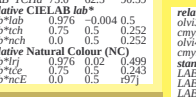
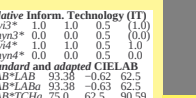
$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

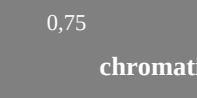
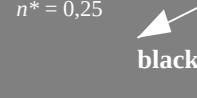
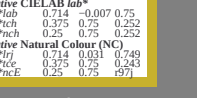
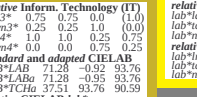
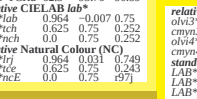
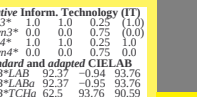
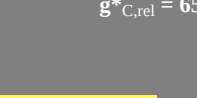
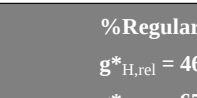


1,00



$n^* = 0,50$

1,00



$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

D65: hue J

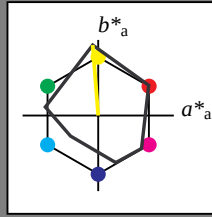
LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} =$

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

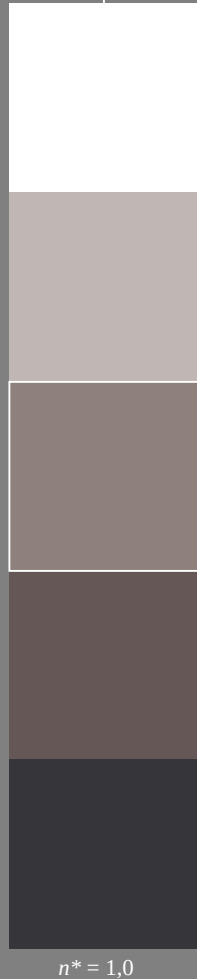
D65: hue J

LCH*Ma: 91 93 94

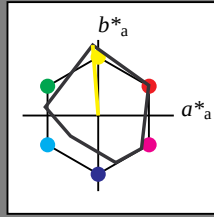
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



UE400-7, 5 step scales for constant CIELAB hue 94/360 = 0.262 (left)



% Gamut

$u^*_{rel} = 92$

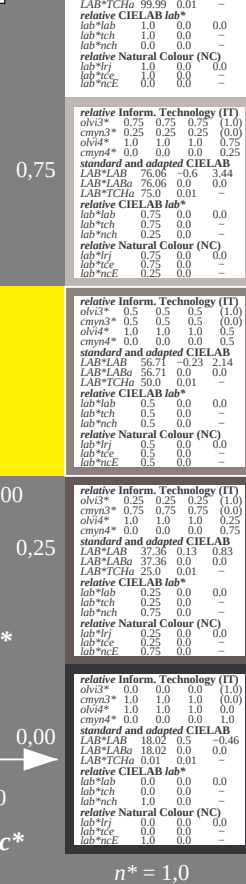
MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00



$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

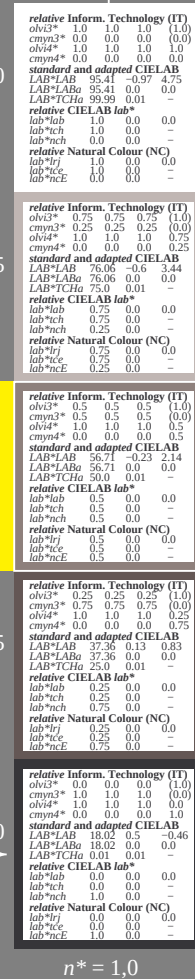
D65: hue Y

LCH*Ma: 90 92 96

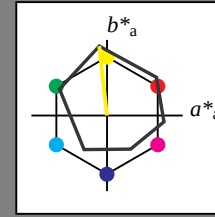
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

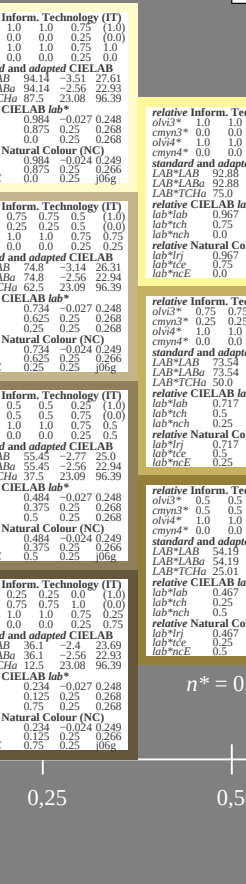
$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

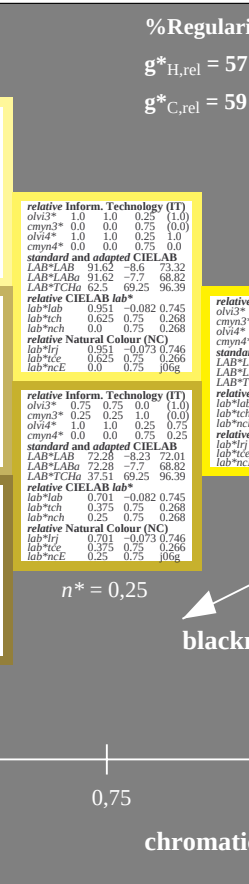
$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$



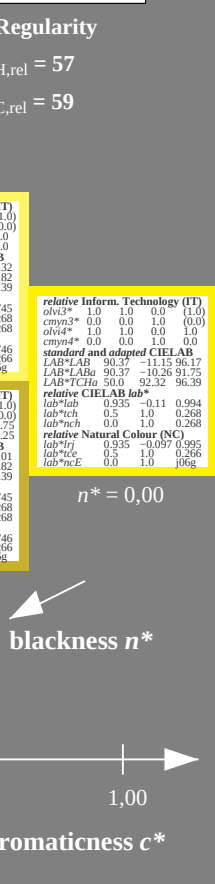
$n^* = 0,50$

$n^* = 1,0$



$n^* = 0,25$

$n^* = 1,0$



$n^* = 0,00$

$n^* = 1,0$

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

D65: hue J

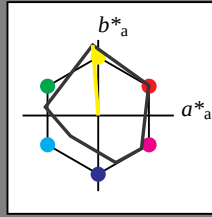
LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,50

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,25

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,00

% Gamut

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

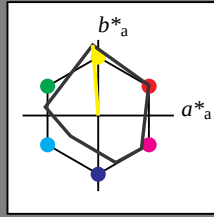
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

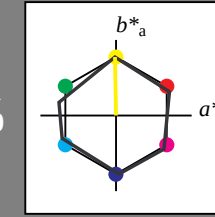
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 94/360 = 0.262 (left)

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

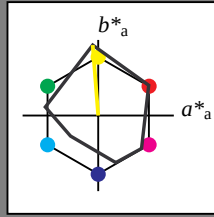
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

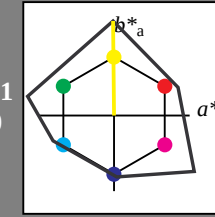
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

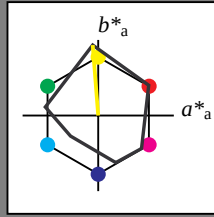
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

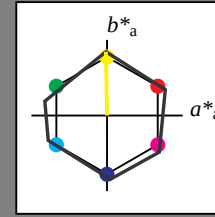
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 94/360 = 0.262 (left)

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

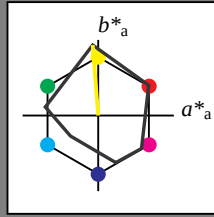
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

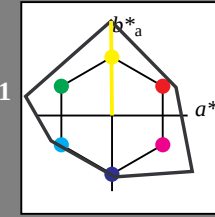
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

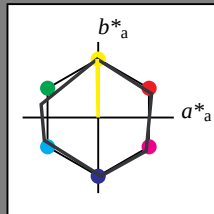
LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

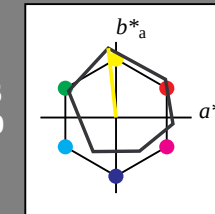
LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

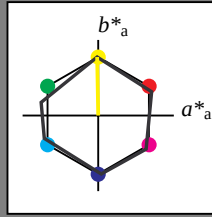
LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

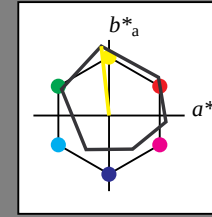
LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	0.0	

standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	56.7	0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCBa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	30.57	1.33	-46.48		
LAB*LABa	30.57	1.33	-46.48		
LAB*TCBa	30.57	1.33	-46.48		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	0.75	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	0.75	1.0	
cmyn4*	0.0	0.0	0.25	0.0	

standard and adapted CIELAB					
LAB*LAB	94.14	-3.51	27.61		
LAB*LABa	94.14	-2.56	22.93		
LAB*TCBa	87.5	23.08	96.39		

relative CIELAB lab*					
lab*lab	0.984	-0.027	0.248		
lab*ch	0.875	0.25	0.268		
lab*nch	0.0	0.25	0.268		

relative Natural Colour (NC)					
lab*trj	0.984	-0.024	0.249		
lab*nce	0.875	0.25	0.266		
lab*nce	0.0	0.25	0.068		

standard and adapted CIELAB					
LAB*LAB	74.8	-3.14	26.31		
LAB*LABa	74.8	-2.56	22.94		
LAB*TCBa	62.5	23.09	96.39		

relative CIELAB lab*					
lab*lab	0.734	-0.027	0.248		
lab*ch	0.625	0.25	0.268		
lab*nch	0.25	0.25	0.268		

relative Natural Colour (NC)					
lab*trj	0.734	-0.024	0.249		
lab*nce	0.625	0.25	0.266		
lab*nce	0.25	0.25	0.068		

standard and adapted CIELAB					
LAB*LAB	55.45	-2.77	25.0		
LAB*LABa	55.45	-2.56	22.94		
LAB*TCBa	37.5	23.09	96.39		

relative CIELAB lab*					
lab*lab	0.484	-0.027	0.248		
lab*ch	0.375	0.25	0.268		
lab*nch	0.5	0.25	0.268		

relative Natural Colour (NC)					
lab*trj	0.484	-0.024	0.249		
lab*nce	0.375	0.25	0.266		
lab*nce	0.5	0.25	0.068		

standard and adapted CIELAB					
LAB*LAB	36.1	-2.4	23.69		
LAB*LABa	36.1	-2.56	22.93		
LAB*TCBa	12.5	23.08	96.39		

relative CIELAB lab*					
lab*lab	0.234	-0.027	0.248		
lab*ch	0.125	0.25	0.268		
lab*nch	0.75	0.25	0.268		

relative Natural Colour (NC)					
lab*trj	0.234	-0.024	0.249		
lab*nce	0.125	0.25	0.266		
lab*nce	0.75	0.25	0.068		

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	0.5	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	0.5	1.0	
cmyn4*	0.0	0.0	0.5	0.0	

standard and adapted CIELAB					
LAB*LAB	92.08	-0.06	50.46		
LAB*LABa	92.08	-5.13	45.87		
LAB*TCBa	75.0	46.16	96.39		

relative CIELAB lab*					
lab*lab	0.967	-0.055	0.497		
lab*ch	0.75	0.25	0.268		
lab*nch	0.0	0.25	0.268		

relative Natural Colour (NC)					
lab*trj	0.967	-0.048	0.497		
lab*nce	0.75	0.25	0.266		
lab*nce	0.0	0.25	0.068		

standard and adapted CIELAB					
LAB*LAB	73.54	-5.69	49.17		
LAB*LABa	73.54	-5.13	45.88		
LAB*TCBa	50.0	46.17	96.39		

relative CIELAB lab*					
lab*lab	0.717	-0.055	0.497		
lab*ch	0.625	0.25	0.268		
lab*nch	0.25	0.25	0.268		

relative Natural Colour (NC)					
lab*trj	0.717	-0.048	0.498		
lab*nce	0.625	0.25	0.266		
lab*nce	0.25	0.25	0.068		

standard and adapted CIELAB					
LAB*LAB	54.19	-5.32	47.85		
LAB*LABa	54.19	-5.13	45.87		
LAB*TCBa	25.01	46.16	96.39		

relative CIELAB lab*					
lab*lab	0.467	-0.055	0.497		
lab*ch	0.5	0.25	0.268		
lab*nch	0.5	0.25	0.268		

relative Natural Colour (NC)					
lab*trj	0.467	-0.048	0.497		
lab*nce	0.5	0.25	0.266		
lab*nce	0.5	0.25	0.068		

standard and adapted CIELAB					
LAB*LAB	30.57	1.15	-46.84		
LAB*LABa	30.57	1.15	-46.84		
LAB*TCBa	30.57	1.15	-46.84		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

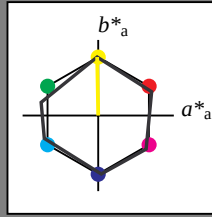
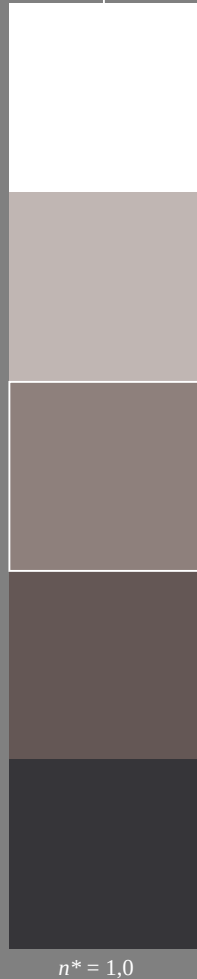
D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	0.75	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

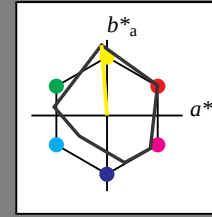
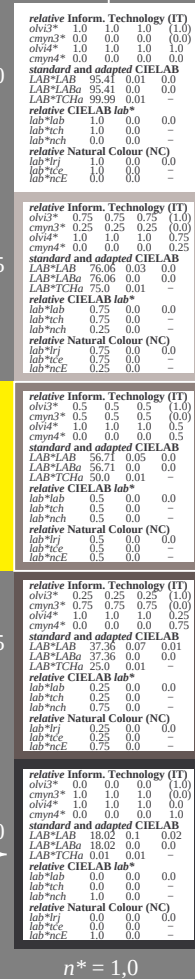
D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	0.75	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	0.75	1.0	
cmyn4*	0.0	0.0	0.25	0.0	
standard and adapted CIELAB					
LAB*LAB	93.05	-3.61	46.59		
LAB*LABa	93.05	-3.63	46.59		
LAB*TCHa	97.50	46.73	94.46		
relative CIELAB lab*					
lab*lab	0.985	-0.018	0.249		
lab*ch	0.875	0.0	0.262		
lab*nch	0.0	0.25	0.262		
relative Natural Colour (NC)					
lab*trj	0.985	-0.011	0.25		
lab*nce	0.167	0.36	0.258		
lab*nce	0.0	0.25	0.038		

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

5 step scales for constant CIELAB hue 94/360 = 0.262 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

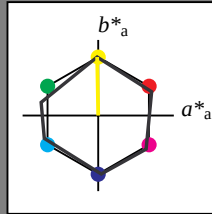
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

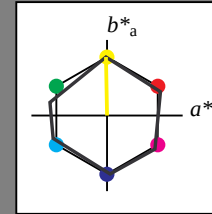
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

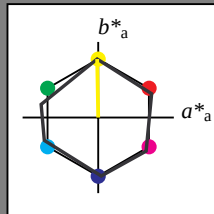
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

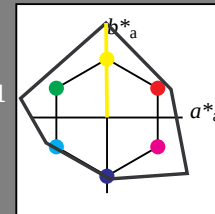
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*LABa = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 76.07$
 $LAB^*LABa = 76.07$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.25$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 56.72$
 $LAB^*LABa = 56.72$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.5$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.37$
 $LAB^*LABa = 37.37$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*LABa = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 76.07$
 $LAB^*LABa = 76.07$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.25$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 56.72$
 $LAB^*LABa = 56.72$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.5$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.37$
 $LAB^*LABa = 37.37$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*LABa = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 76.07$
 $LAB^*LABa = 76.07$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.25$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 56.72$
 $LAB^*LABa = 56.72$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.5$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.37$
 $LAB^*LABa = 37.37$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*LABa = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 76.07$
 $LAB^*LABa = 76.07$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.25$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 56.72$
 $LAB^*LABa = 56.72$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.5$

$n^* = 1,0$

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 94.39$
 $LAB^*LABa = 94.39$
 $LAB^*TCha = 87.5$
 relative CIELAB lab*
 $lab^*lab = 0.987$
 $lab^*tch = 0.875$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.987$
 $lab^*tce = 0.875$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

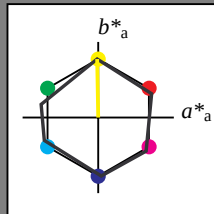
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

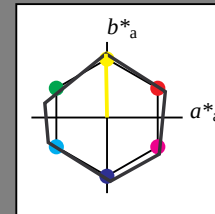
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

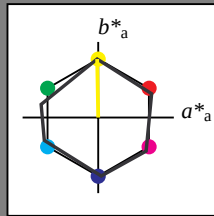
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

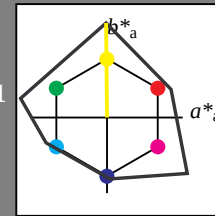
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

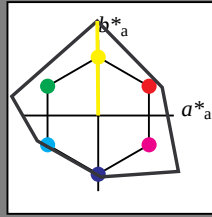
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

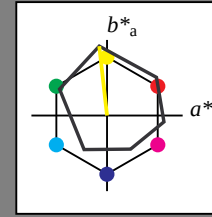
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

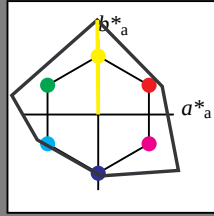
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

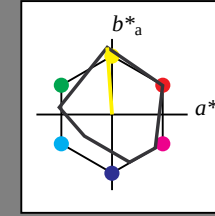
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 1.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 0.0 0.0

LAB*LABa 76.06 0.0 0.0

LAB*LABb 76.06 0.0 0.0

LAB*LABc 76.06 0.0 0.0

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 1.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 0.0 0.0

LAB*LABa 76.06 0.0 0.0

LAB*LABb 76.06 0.0 0.0

LAB*LABc 76.06 0.0 0.0

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 1.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 0.0 0.0

LAB*LABa 76.06 0.0 0.0

LAB*LABb 76.06 0.0 0.0

LAB*LABc 76.06 0.0 0.0

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 1.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 0.0 0.0

LAB*LABa 76.06 0.0 0.0

LAB*LABb 76.06 0.0 0.0

LAB*LABc 76.06 0.0 0.0

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 1.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 0.0 0.0

LAB*LABa 76.06 0.0 0.0

LAB*LABb 76.06 0.0 0.0

LAB*LABc 76.06 0.0 0.0

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

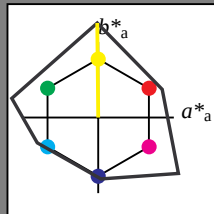
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

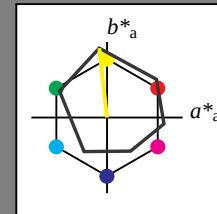
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.984	-0.024	0.249		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	55.45	-2.77	25.0		
LAB*LABa	55.45	-2.56	22.94		
LAB*TCBa	37.5	23.09	96.39		
relative CIELAB lab*					
lab*lab	0.484	-0.027	0.248		
lab*tch	0.375	0.25	0.268		
lab*nch	0.5	0.25	0.268		
relative Natural Colour (NC)					
lab*trj	0.484	-0.024	0.249		
lab*tce	0.375	0.25	0.266		
lab*nce	0.5	0.25	0.266		

lab*ace	0.5	0.0	-
lab*nce	0.5	0.0	-

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	0.25
cmyn4*	0.0	0.0	0.0	0.75
standard and adapted CIE LAB				
LAB*LAB	73.54	-5.69	49.17	
LAB*LABa	73.54	-5.13	45.88	
LAB*TCBa	50.0	46.16	96.39	
relative CIE LAB lab*				
lab*lab	0.717	-0.055	0.497	
lab*tch	0.625	0.25	0.268	
lab*nch	0.5	0.25	0.268	
relative Natural Colour (NC)				
lab*trj	0.717	-0.048	0.498	
lab*tce	0.5	0.25	0.	

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

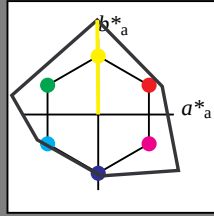
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

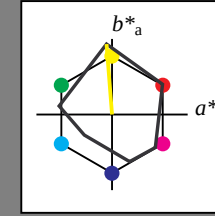
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 94/360 = 0.262 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

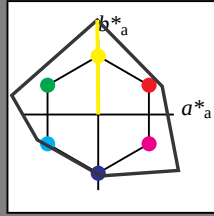
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

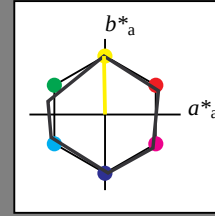
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

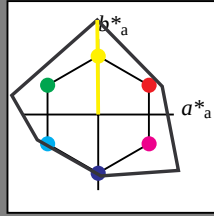
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

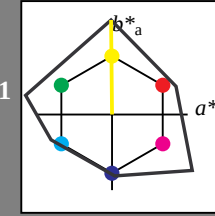
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

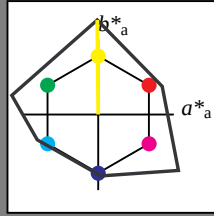
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

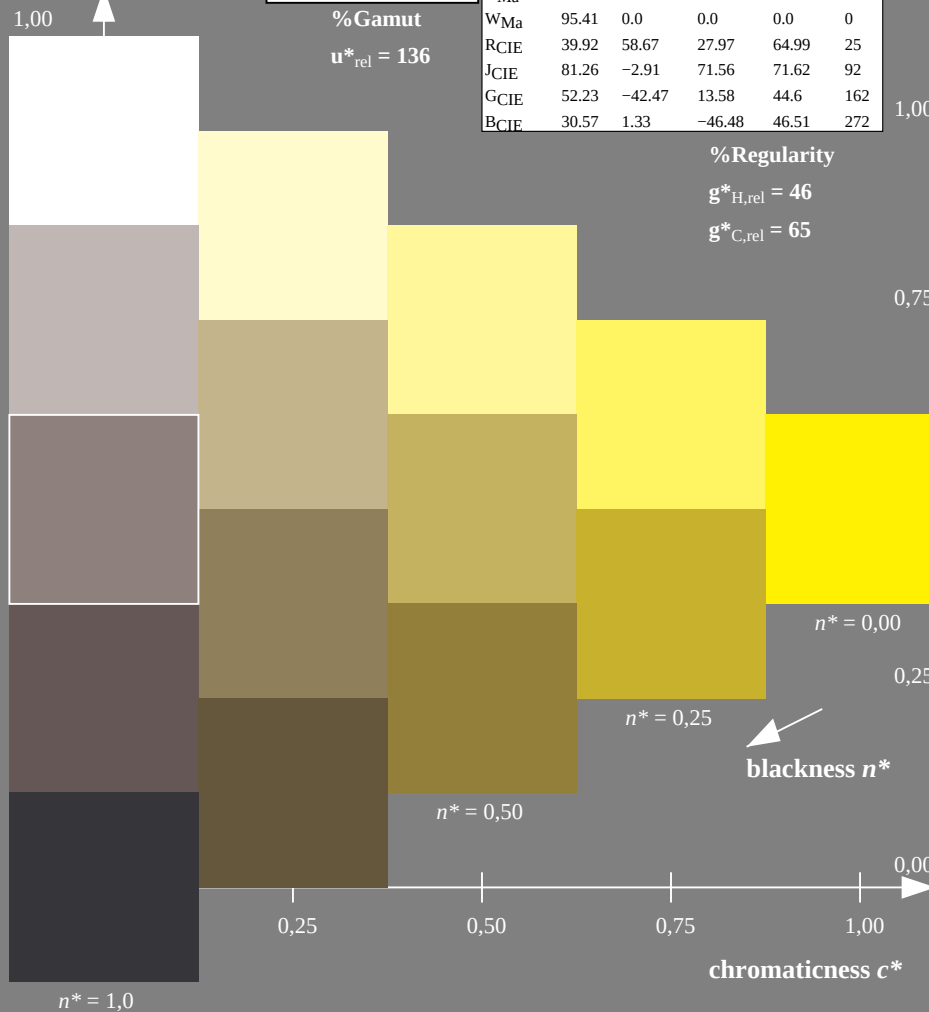


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIE LAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

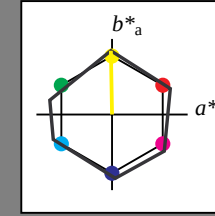
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

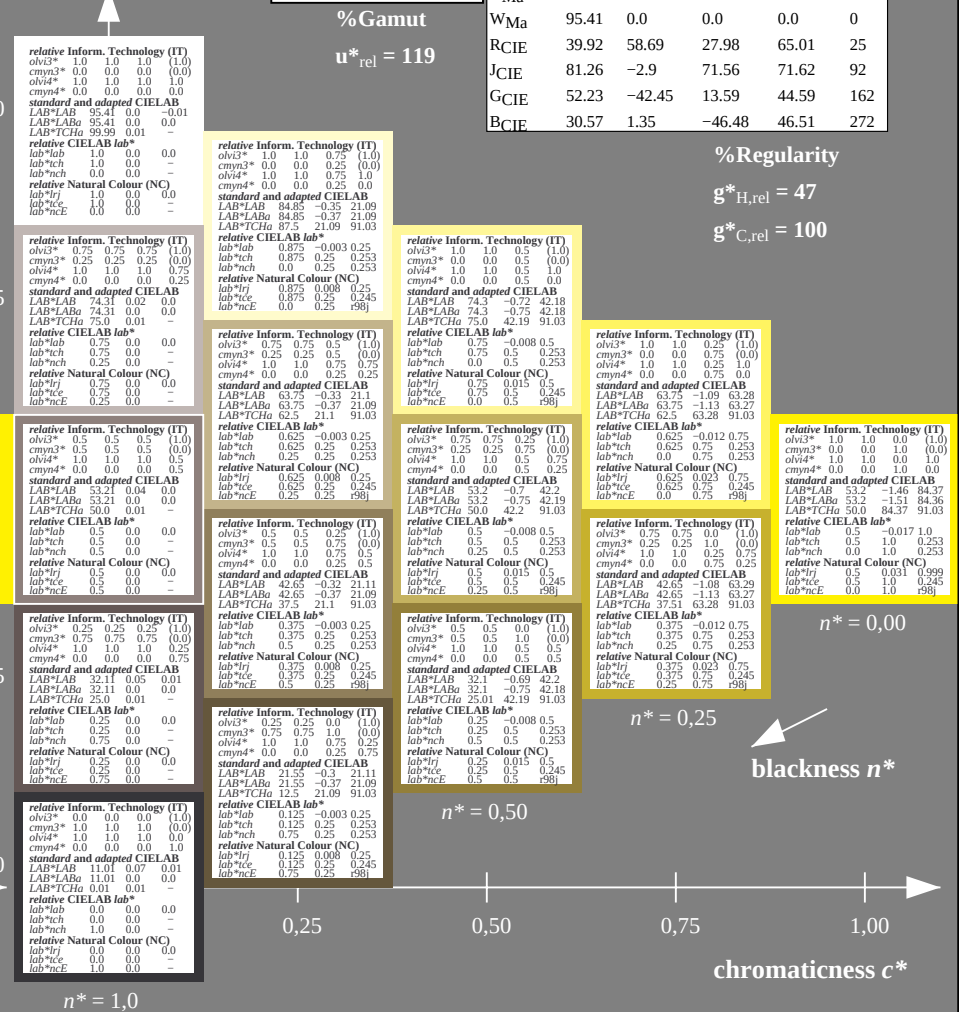


NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



$n^* = 1,0$

5 step scales for constant CIE LAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

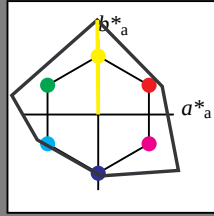
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

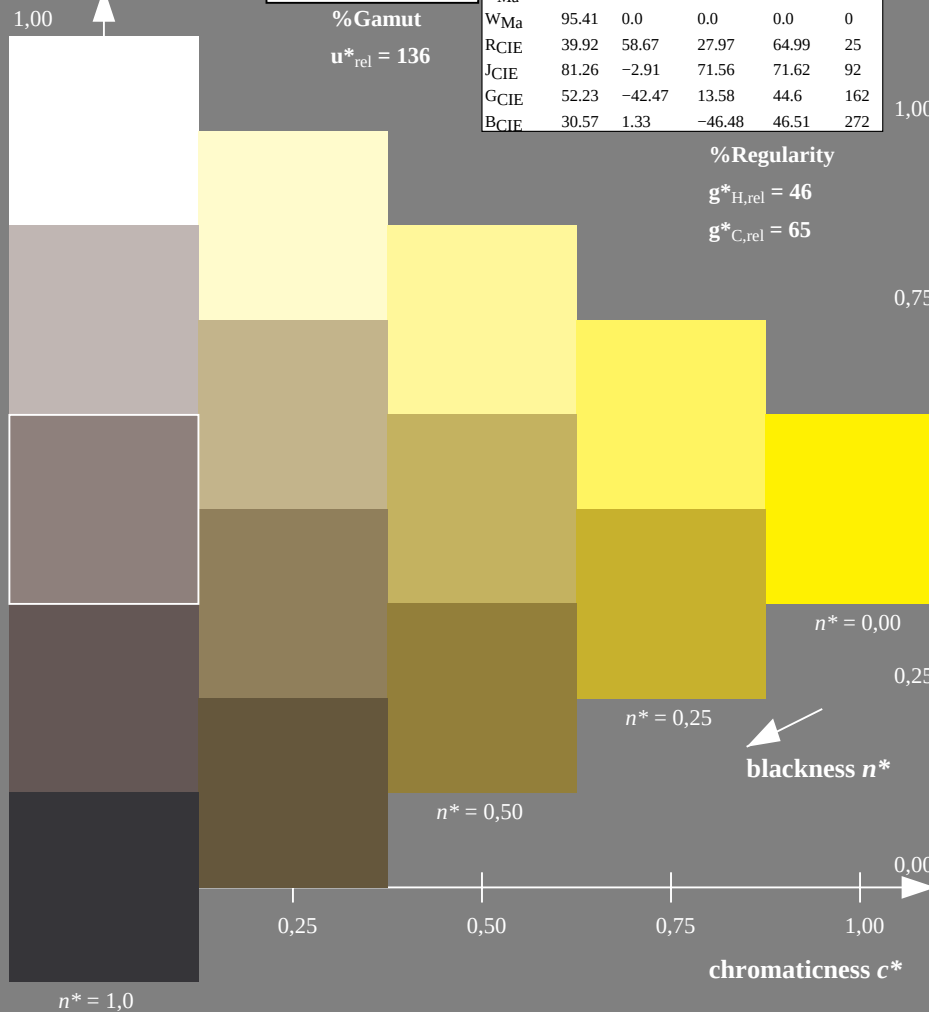
rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$



UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

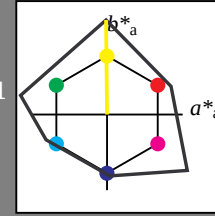
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

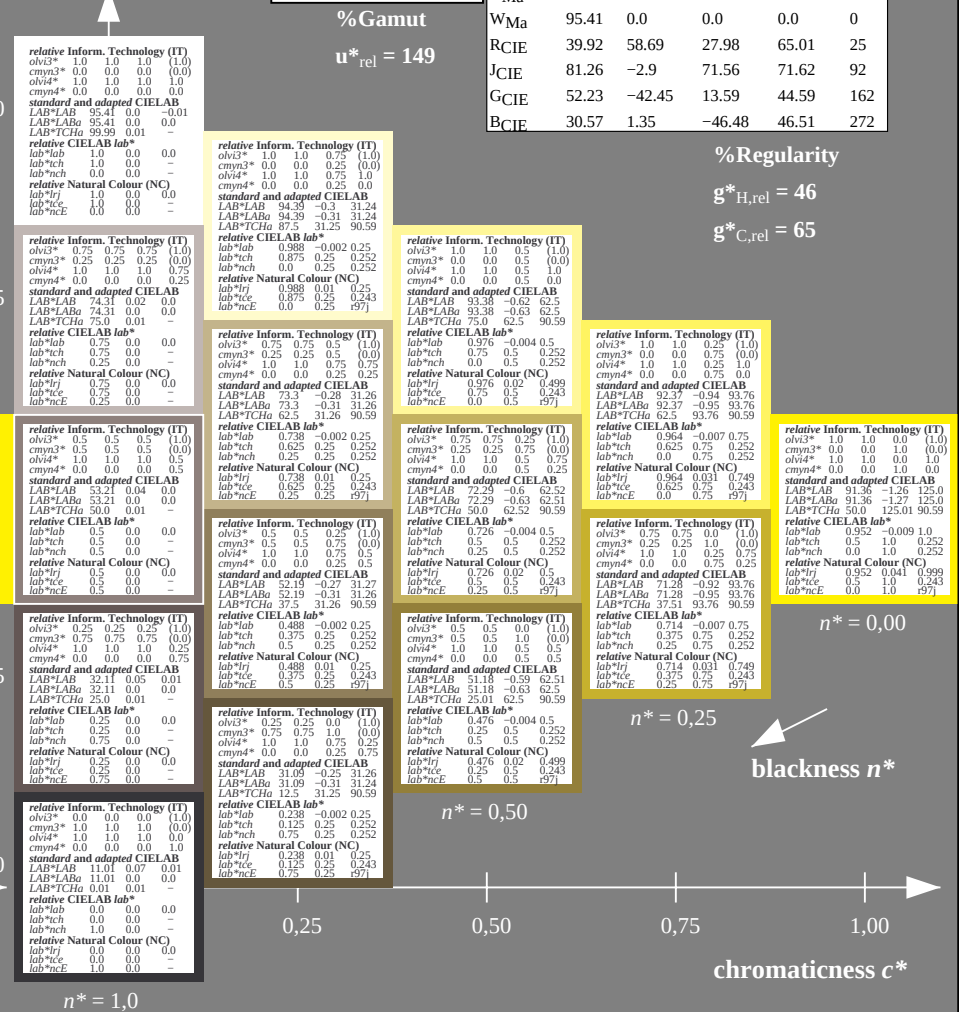
rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$



5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

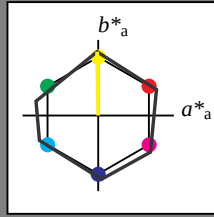
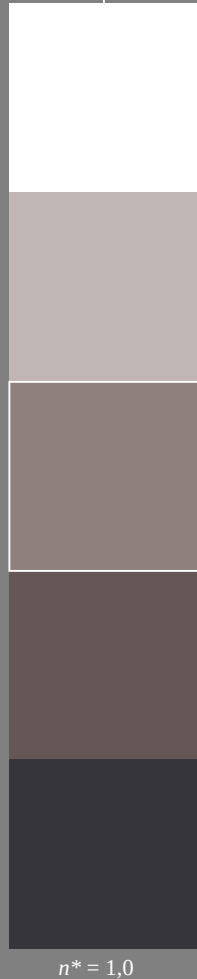
D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

U^*_{rel}

relative Inform. Technology (IT)				
olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	94.14	-3.51	27.61	
LAB*LABa	94.14	-2.56	22.93	
LAB*TC _{Ma}	99.99	0.01	-	
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*ch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	1.0	0.0	0.0	
lab*nce	0.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.5	0.75	0.5	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	0.5	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-2.23	21.14	
LAB*LABa	56.71	0.0	21.14	
LAB*TC _{Ma}	50.01	-	-	
relative CIELAB lab*				
lab*lab	0.5	0.0	0.0	
lab*ch	0.5	0.0	0.0	
lab*nch	0.0	0.25	0.0	
relative Natural Colour (NC)				
lab*trj	0.5	0.0	0.0	
lab*nce	0.5	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.0	(1.0)
cmyn3*	0.75	0.75	0.0	(0.0)
olvi4*	1.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.36	0.0	20.83	
LAB*LABa	37.36	0.0	20.83	
LAB*TC _{Ma}	25.01	-	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	0.0	
lab*nch	0.0	0.75	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	1.0	1.0	0.75	(1.0)
cmyn3*	0.0	0.0	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	94.14	-3.51	27.61	
LAB*LABa	94.14	-2.56	22.93	
LAB*TC _{Ma}	87.5	23.08	96.39	
relative CIELAB lab*				
lab*lab	0.984	-0.027	0.248	
lab*ch	0.875	0.0	0.268	
lab*nch	0.0	0.25	0.268	
relative Natural Colour (NC)				
lab*trj	0.984	-0.024	0.249	
lab*nce	0.875	0.0	0.266	
lab*nce	0.0	0.25	0.068	

relative Inform. Technology (IT)				
olvi3*	0.5	0.75	0.5	(1.0)
cmyn3*	0.25	0.25	0.5	(0.0)
olvi4*	1.0	1.0	0.5	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	74.8	-3.14	26.31	
LAB*LABa	74.8	-2.56	22.94	
LAB*TC _{Ma}	62.5	23.09	96.39	
relative CIELAB lab*				
lab*lab	0.734	-0.027	0.248	
lab*ch	0.625	0.25	0.268	
lab*nch	0.25	0.25	0.268	
relative Natural Colour (NC)				
lab*trj	0.734	-0.024	0.249	
lab*nce	0.625	0.25	0.266	
lab*nce	0.25	0.25	0.068	

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.25	(1.0)
cmyn3*	0.5	0.5	0.75	(0.0)
olvi4*	1.0	1.0	0.25	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	55.45	-2.77	25.0	
LAB*LABa	55.45	-2.56	22.94	
LAB*TC _{Ma}	37.5	23.09	96.39	
relative CIELAB lab*				
lab*lab	0.484	-0.027	0.248	
lab*ch	0.375	0.25	0.268	
lab*nch	0.5	0.25	0.268	
relative Natural Colour (NC)				
lab*trj	0.484	-0.024	0.249	
lab*nce	0.375	0.25	0.266	
lab*nce	0.5	0.25	0.068	

0.25

$n^* = 1.0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

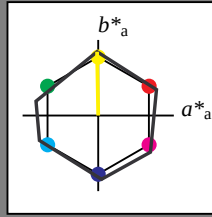
LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J

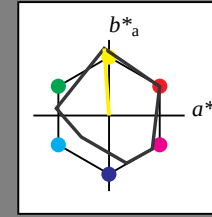
LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	95.41	0.0	0.0		
LAB*LABc	95.41	0.0	0.0		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	1.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*LABb	76.06	0.0	0.0		
LAB*LABc	76.06	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*LABb	56.71	0.0	0.0		
LAB*LABc	56.71	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*LABb	37.36	0.0	0.0		
LAB*LABc	37.36	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*LABb	18.02	0.0	0.0		
LAB*LABc	18.02	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	55.53	-1.8	24.26		
LAB*LABa	55.53	-1.8	24.26		
LAB*LABb	55.53	-1.8	24.26		
LAB*LABc	55.53	-1.8	24.26		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	36.18	-1.43	22.94		
LAB*LABa	36.18	-1.43	22.94		
LAB*LABb	36.18	-1.43	22.94		
LAB*LABc	36.18	-1.43	22.94		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	12.5	0.0	0.0		
LAB*LABa	12.5	0.0	0.0		
LAB*LABb	12.5	0.0	0.0		
LAB*LABc	12.5	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	73.7	-3.74	47.67		
LAB*LABa	73.7	-3.74	47.67		
LAB*LABb	73.7	-3.74	47.67		
LAB*LABc	73.7	-3.74	47.67		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

$n^* = 1,0$
5 step scales for

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

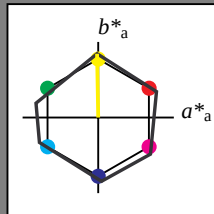
LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

% Regularity

$g^*_{H,rel} = 57$

</

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

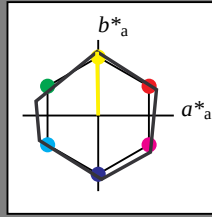
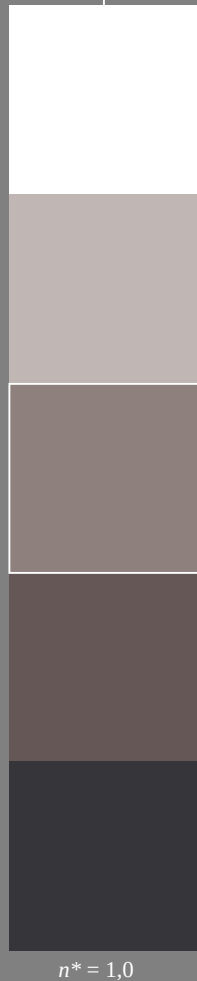
D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

lab^*tch and lab^*nch

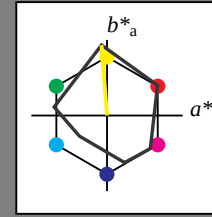
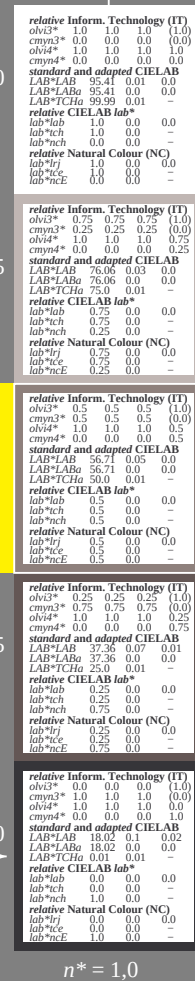
D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

5 step scales for constant CIELAB hue 94/360 = 0.262 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

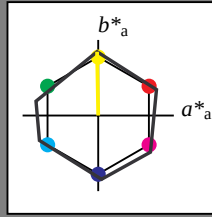
LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

%Gamut



%Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

D65: hue J

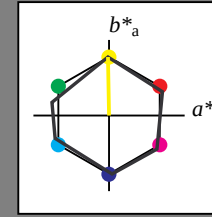
LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00

%Gamut



%Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

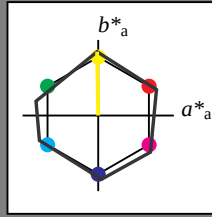
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

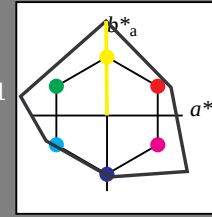
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

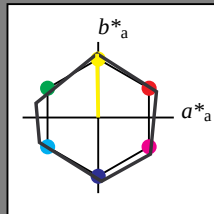
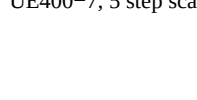
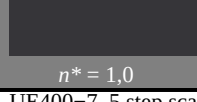
D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

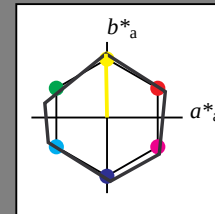
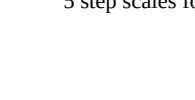
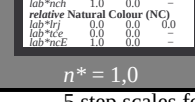
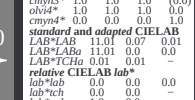
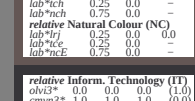
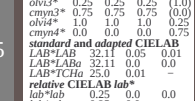
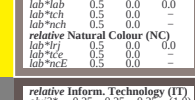
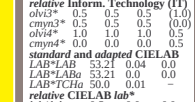
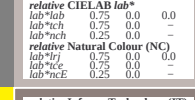
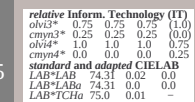
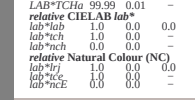
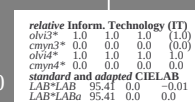
D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

lab^*tch and lab^*nch

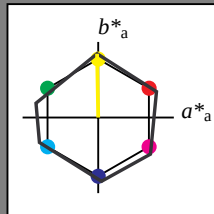
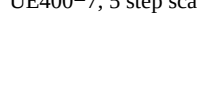
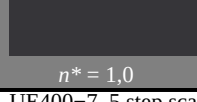
D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

lab^*tch and lab^*nch

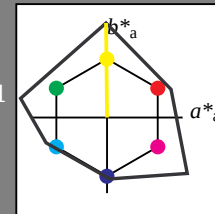
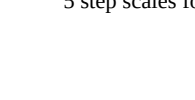
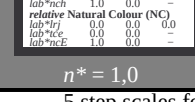
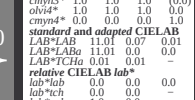
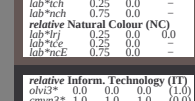
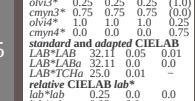
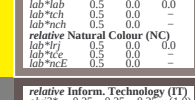
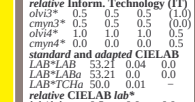
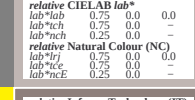
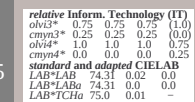
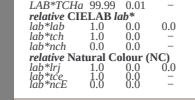
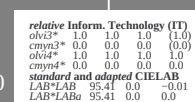
D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.253 (left)

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

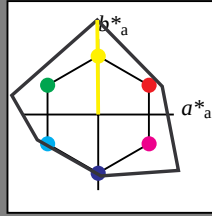
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

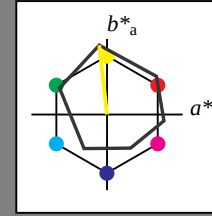
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

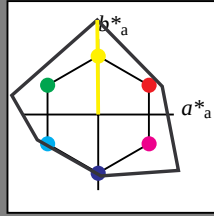
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

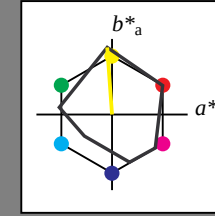
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

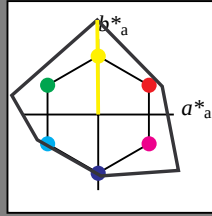
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 96/360 = 0.268$

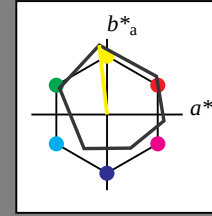
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.984	-0.024	0.249		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCRa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

TRS18; adapted (a) CIELAB data

for hue $h^* = lab^*h = 96/360 = 0.268$

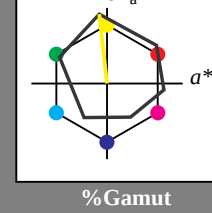
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

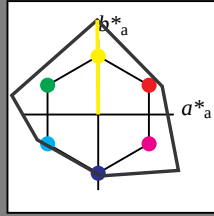
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

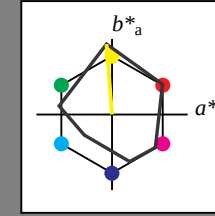
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

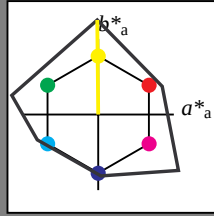
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 91/360 = 0.253$

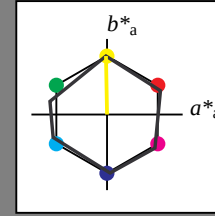
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

$n^* = 1,0$

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

blackness n^*

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

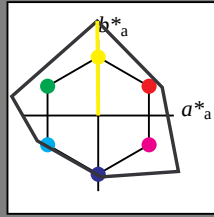
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 91/360 = 0.252$

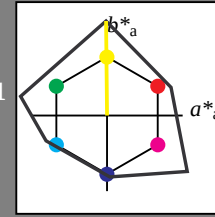
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)
 $olvi3^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn3^* = 0.0$ 0.0 0.0 0.0 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$ 0.0 0.0
 $LAB^*LABa = 95.41$ 0.0 0.0
 $LAB^*TCha = 99.99$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0 0.0
 $lab^*tch = 1.0$ 0.0 -
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 1.0$ 0.0 0.0
 $lab^*tce = 0.0$ 0.0 0.0
 $lab^*nce = 0.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.75$ 0.75 0.75 (1.0)
 $cmyn3^* = 0.25$ 0.25 0.25 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 76.07$ 0.0 0.0
 $LAB^*LABa = 76.07$ 0.0 0.0
 $LAB^*TCha = 75.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.75$ 0.0 0.0 0.0
 $lab^*tch = 0.75$ 0.0 -
 $lab^*nch = 0.25$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.75$ 0.0 0.0
 $lab^*tce = 0.25$ 0.0 0.0
 $lab^*nce = 0.25$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.5$ 0.5 0.5 (1.0)
 $cmyn3^* = 0.5$ 0.5 0.5 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 56.72$ 0.0 0.0
 $LAB^*LABa = 56.72$ 0.0 0.0
 $LAB^*TCha = 50.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 0.0
 $lab^*tch = 0.5$ 0.0 -
 $lab^*nch = 0.5$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.5$ 0.0 0.0
 $lab^*tce = 0.5$ 0.0 0.0
 $lab^*nce = 0.5$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.25$ 0.25 0.25 (1.0)
 $cmyn3^* = 0.75$ 0.75 0.75 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 37.37$ 0.0 0.0
 $LAB^*LABa = 37.37$ 0.0 0.0
 $LAB^*TCha = 25.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.25$ 0.0 0.0 0.0
 $lab^*tch = 0.25$ 0.0 -
 $lab^*nch = 0.75$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.25$ 0.0 0.0
 $lab^*tce = 0.75$ 0.0 0.0
 $lab^*nce = 0.75$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.0$ 0.0 0.0 (1.0)
 $cmyn3^* = 1.0$ 1.0 1.0 1.0 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (0.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (1.0)
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$ 0.0 0.0
 $LAB^*LABa = 18.02$ 0.0 0.0
 $LAB^*TCha = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 0.0
 $lab^*tch = 0.0$ 0.0 -
 $lab^*nch = 1.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.0$ 0.0 0.0
 $lab^*tce = 1.0$ 0.0 0.0
 $lab^*nce = 1.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn3^* = 0.0$ 0.0 0.0 0.0 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (0.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (1.0)
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$ 0.0 0.0
 $LAB^*LABa = 95.41$ 0.0 0.0
 $LAB^*TCha = 99.99$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0 0.0
 $lab^*tch = 1.0$ 0.0 -
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 1.0$ 0.0 0.0
 $lab^*tce = 0.0$ 0.0 0.0
 $lab^*nce = 0.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.75$ 0.75 0.75 (1.0)
 $cmyn3^* = 0.25$ 0.25 0.25 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 76.07$ 0.0 0.0
 $LAB^*LABa = 76.07$ 0.0 0.0
 $LAB^*TCha = 75.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.75$ 0.0 0.0 0.0
 $lab^*tch = 0.75$ 0.0 -
 $lab^*nch = 0.25$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.75$ 0.0 0.0
 $lab^*tce = 0.25$ 0.0 0.0
 $lab^*nce = 0.25$ 0.0 0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

relative Inform. Technology (IT)
 $olvi3^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn3^* = 0.0$ 0.0 0.0 0.0 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 94.39$ 0.0 0.0
 $LAB^*LABa = 94.39$ 0.0 0.0
 $LAB^*TCha = 94.39$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0 0.0
 $lab^*tch = 1.0$ 0.0 -
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 1.0$ 0.0 0.0
 $lab^*tce = 0.0$ 0.0 0.0
 $lab^*nce = 0.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.75$ 0.75 0.75 (1.0)
 $cmyn3^* = 0.25$ 0.25 0.25 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 75.05$ 0.0 0.0
 $LAB^*LABa = 75.05$ 0.0 0.0
 $LAB^*TCha = 75.05$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.75$ 0.0 0.0 0.0
 $lab^*tch = 0.75$ 0.0 -
 $lab^*nch = 0.25$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.75$ 0.0 0.0
 $lab^*tce = 0.25$ 0.0 0.0
 $lab^*nce = 0.25$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.5$ 0.5 0.5 (1.0)
 $cmyn3^* = 0.5$ 0.5 0.5 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 56.72$ 0.0 0.0
 $LAB^*LABa = 56.72$ 0.0 0.0
 $LAB^*TCha = 50.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 0.0
 $lab^*tch = 0.5$ 0.0 -
 $lab^*nch = 0.5$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.5$ 0.0 0.0
 $lab^*tce = 0.5$ 0.0 0.0
 $lab^*nce = 0.5$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.25$ 0.25 0.25 (1.0)
 $cmyn3^* = 0.75$ 0.75 0.75 (0.0)
 $olvi4^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 $LAB^*LAB = 37.37$ 0.0 0.0
 $LAB^*LABa = 37.37$ 0.0 0.0
 $LAB^*TCha = 25.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.25$

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

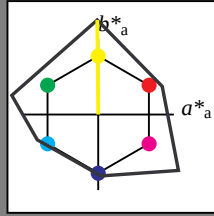
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

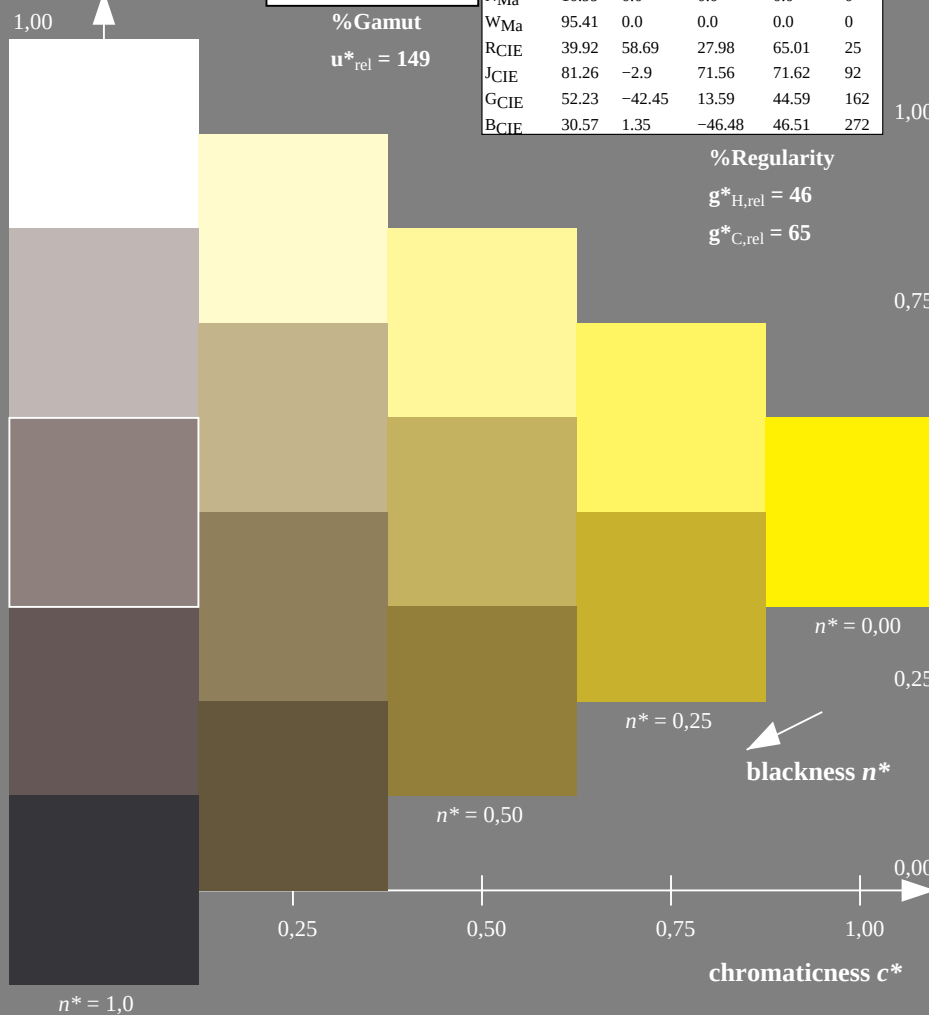


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

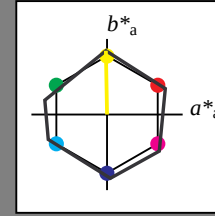
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness

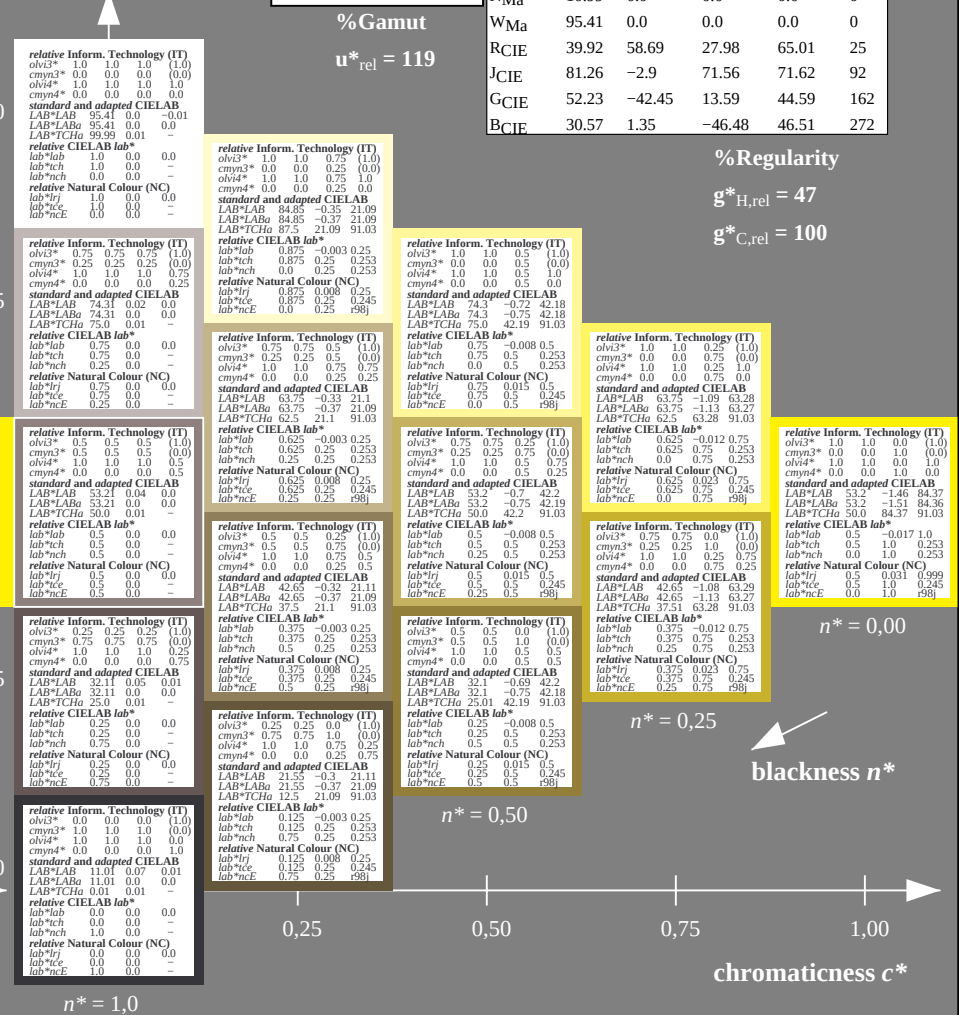


NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



$n^* = 1,0$

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

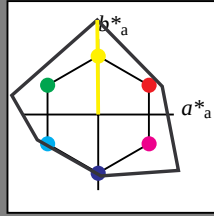
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

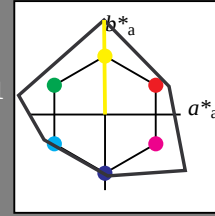
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

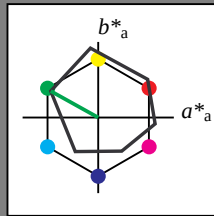
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

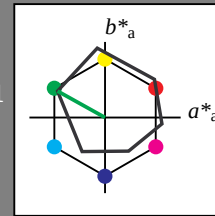
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

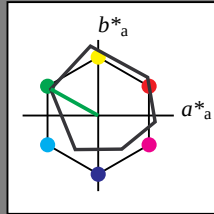
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

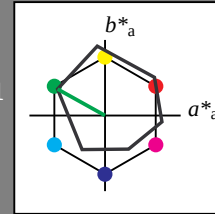
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

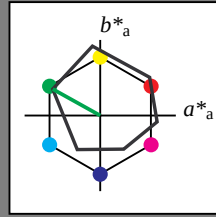
LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

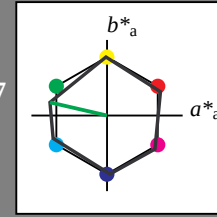
LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 0,50$

$n^* = 1,0$

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

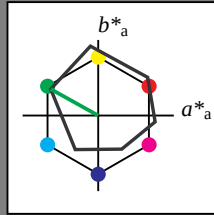
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

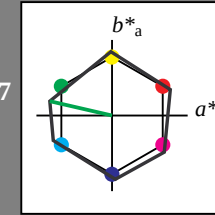
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS11; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

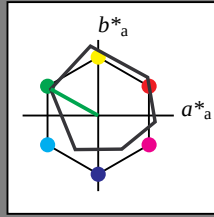
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

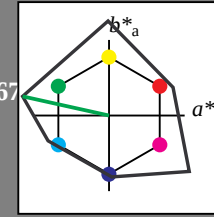
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

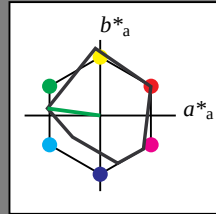
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

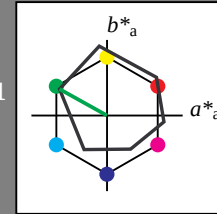
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

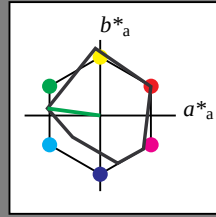
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

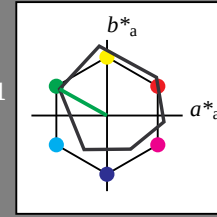
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

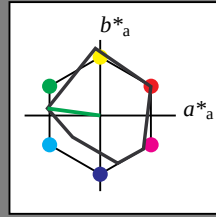
$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 172/360 = 0.479 (left)



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

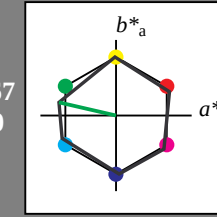
$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

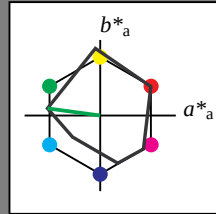
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

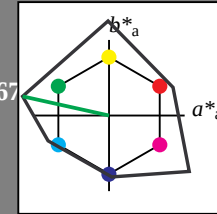
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

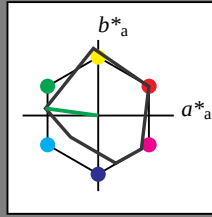
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

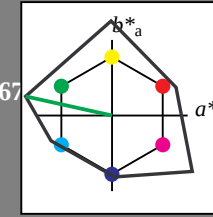
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(0,0)
LAB*LAB	95.41	0.0	0.0	0.0	-0.01
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	1.0	0.0	-	-	-
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(0,0)
LAB*LAB	74.31	0.0	0.0	0.0	0.0
LAB*LABa	74.31	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*tch	0.75	0.0	-	-	-
lab*nch	0.75	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	0.0
lab*tce	0.75	0.0	0.0	0.0	0.0
lab*nce	0.75	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(0,0)
LAB*LAB	53.21	0.0	0.0	0.0	0.0
LAB*LABa	53.21	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	50.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*tch	0.5	0.0	-	-	-
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*tce	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(0,0)
LAB*LAB	32.11	0.0	0.0	0.0	0.0
LAB*LABa	32.11	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	25.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.25	0.0	-	-	-
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*tce	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(0,0)
LAB*LAB	11.01	0.0	0.0	0.0	0.0
LAB*LABa	11.01	0.0	0.0	0.0	0.0
LAB*TC _{Ma}	0.01	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	-	-	-
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

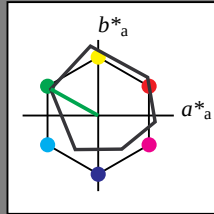
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

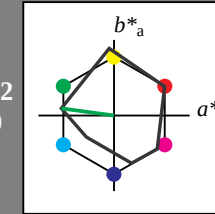
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 172/360 = 0.479 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

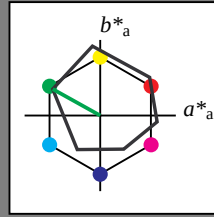
LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

blackness n^*

0,25

0,50

$n^* = 0,25$

$n^* = 0,00$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

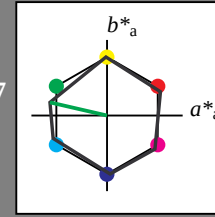
LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	

standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TCRa	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	56.7	0.0	0.0		
LAB*LABa	56.7	0.0	0.0		
LAB*TCRa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	37.37	0.0	0.0		
LAB*LABa	37.37	0.0	0.0		
LAB*TCRa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	0.75	(1.0)	
cmyn3*	0.25	0.0	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	(1.0)	
cmyn4*	0.25	0.0	0.25	(0.0)	

standard and adapted CIELAB					
LAB*LAB	85.73	0.0	0.0		
LAB*LABa	85.73	0.0	0.0		
LAB*TCRa	87.5	0.01	-		

relative CIELAB lab*					
lab*lab	0.875	0.0	0.0		
lab*lab	0.875	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.875	0.0	0.0		
lab*trj	0.875	0.0	0.0		
lab*trj	0.875	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	66.38	0.0	0.0		
LAB*LABa	66.38	0.0	0.0		
LAB*TCRa	62.5	0.01	-		

relative CIELAB lab*					
lab*lab	0.625	0.0	0.0		
lab*lab	0.625	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.625	0.0	0.0		
lab*trj	0.625	0.0	0.0		
lab*trj	0.625	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	56.7	0.0	0.0		
LAB*LABa	56.7	0.0	0.0		
LAB*TCRa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	37.37	0.0	0.0		
LAB*LABa	37.37	0.0	0.0		
LAB*TCRa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	1.0	0.5	(1.0)	
cmyn3*	0.5	0.0	0.5	(0.0)	
olvi4*	0.5	1.0	0.5	(1.0)	
cmyn4*	0.5	0.0	0.5	(0.0)	

standard and adapted CIELAB					
LAB*LAB	76.05	0.0	0.0		
LAB*LABa	76.05	0.0	0.0		
LAB*TCRa	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	56.7	0.0	0.0		
LAB*LABa	56.7	0.0	0.0		
LAB*TCRa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	37.37	0.0	0.0		
LAB*LABa	37.37	0.0	0.0		
LAB*TCRa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		

standard and adapted CIELAB					
LAB*LAB	37.37	0.0	0.0		
LAB*LABa	37.37	0.0	0.0		
LAB*TCRa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.125	0.0	0.0		
lab*lab	0.125	0.0	0.0		
lab*nch	0.0	0.0	0.0		

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

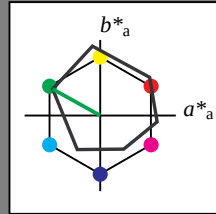
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

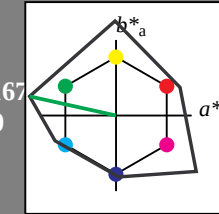
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

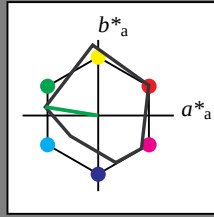
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

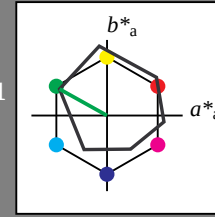
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

UE400-7, 5 step scales for constant CIELAB hue 171/360 = 0.475 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

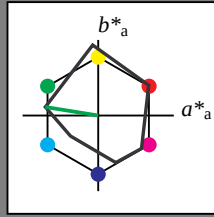
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

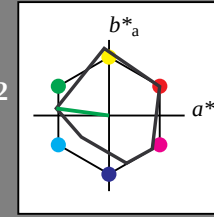
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

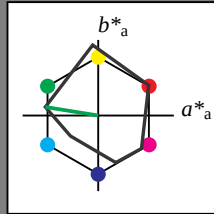
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

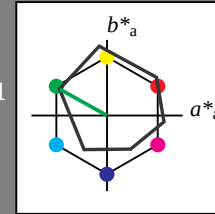
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 171/360 = 0.475 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

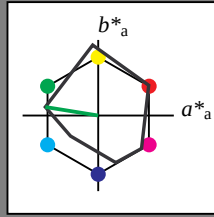
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

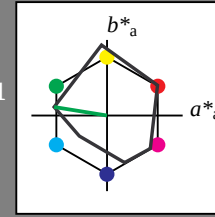
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

UE400-7, 5 step scales for constant CIELAB hue 171/360 = 0.475 (left)

5 step scales for constant CIELAB hue 171/360 = 0.475 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

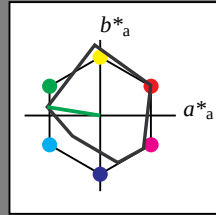
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

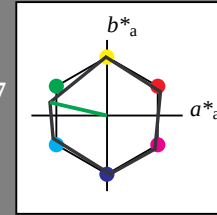
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 171/360 = 0.475 (left)

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

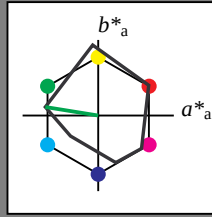
D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.25	0.0
cmyn4*	0.0	0.0	0.0	0.25	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.0	0.0	0.75	0.0
cmyn4*	0.0	0.0	0.0	0.25	0.0
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
olvi4*	0.0	0.0	0.0	0.25	0.0
cmyn4*	0.0	0.0	0.0	0.25	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	0.0
cmyn4*	0.0	0.0	0.0	0.5	0.0
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
olvi4*	0.0	0.0	0.0	0.5	0.0
cmyn4*	0.0	0.0	0.0	0.5	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	0.0
cmyn4*	0.0	0.0	0.0	0.25	0.0
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.07	0.01		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
olvi4*	0.0	0.0	0.0	0.25	0.0
cmyn4*	0.0	0.0	0.0	0.25	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.09	0.02		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.01	0.01	-		
LAB*LABa	0.01	0.01	-		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	-		
LAB*LABa	0.0	0.0	-		
LAB*TCBa	0.0	0.0	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	-		
LAB*LABa	0.0	0.0	-		
LAB*TCBa	0.0	0.0	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	-		
LAB*LABa	0.0	0.0	-		
LAB*TCBa	0.0	0.0	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	-		
LAB*LABa	0.0	0.0	-		
LAB*TCBa	0.0	0.0	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	-		
LAB*LABa	0.0	0.0	-		
LAB*TCBa	0.0	0.0	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
olvi4*	0.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	-		
LAB					

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

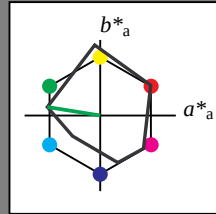
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

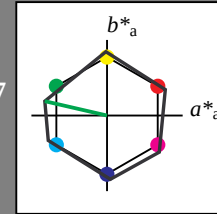
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 171/360 = 0.475 (left)

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

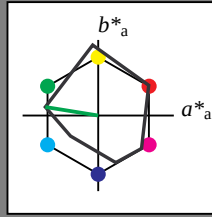
D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

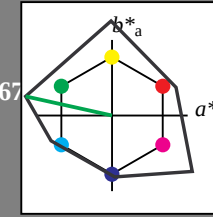
D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	0.75	(1.0)	
cmyn3*	0.25	0.0	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	1.0	
cmyn4*	0.25	0.0	0.25	0.0	
standard and adapted CIELAB					
LAB*LAB	87.32	-28.53	6.33		
LAB*LABa	87.32	-28.53	6.33		
LAB*TC _{Ma}	87.5	29.25	167.5		
relative CIELAB lab*					
lab*lab	0.904	-0.243	0.054		
lab*tch	0.875	0.25	0.465		
lab*nch	0.0	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.904	-0.243	-0.018		
lab*tce	0.25	0.25	0.512		
lab*nce	0.0	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.5	(1.0)	
cmyn3*	0.5	0.25	0.5	(0.0)	
olvi4*	0.5	1.0	0.5	0.75	
cmyn4*	0.25	0.0	0.25	0.25	
standard and adapted CIELAB					
LAB*LAB	66.22	-28.53	6.34		
LAB*LABa	66.22	-28.53	6.34		
LAB*TC _{Ma}	62.5	29.27	167.5		
relative CIELAB lab*					
lab*lab	0.654	-0.243	0.054		
lab*tch	0.625	0.25	0.465		
lab*nch	0.25	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.654	-0.243	-0.018		
lab*tce	0.625	0.25	0.512		
lab*nce	0.25	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.25	(1.0)	
cmyn3*	0.75	0.5	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.25	0.0	0.25	0.5	
standard and adapted CIELAB					
LAB*LAB	45.12	-28.51	6.35		
LAB*LABa	45.12	-28.51	6.35		
LAB*TC _{Ma}	37.5	29.27	167.5		
relative CIELAB lab*					
lab*lab	0.404	-0.243	0.054		
lab*tch	0.375	0.25	0.465		
lab*nch	0.5	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.404	-0.243	-0.018		
lab*tce	0.375	0.25	0.512		
lab*nce	0.5	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.0	(1.0)	
cmyn3*	1.0	0.75	1.0	(0.0)	
olvi4*	0.75	1.0	0.75	0.25	
cmyn4*	0.25	0.0	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	24.02	-28.48	6.35		
LAB*LABa	24.02	-28.48	6.35		
LAB*TC _{Ma}	12.5	29.27	167.5		
relative CIELAB lab*					
lab*lab	0.154	-0.243	0.054		
lab*tch	0.125	0.25	0.465		
lab*nch	0.75	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.154	-0.243	-0.018		
lab*tce	0.125	0.25	0.512		
lab*nce	0.75	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

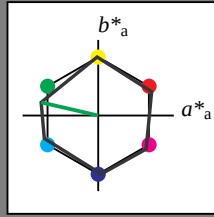
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

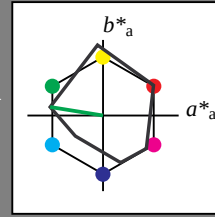
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

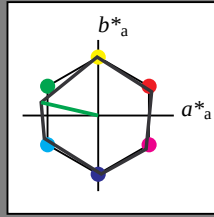
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

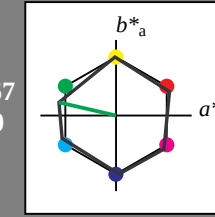
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

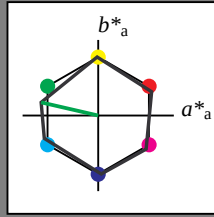
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

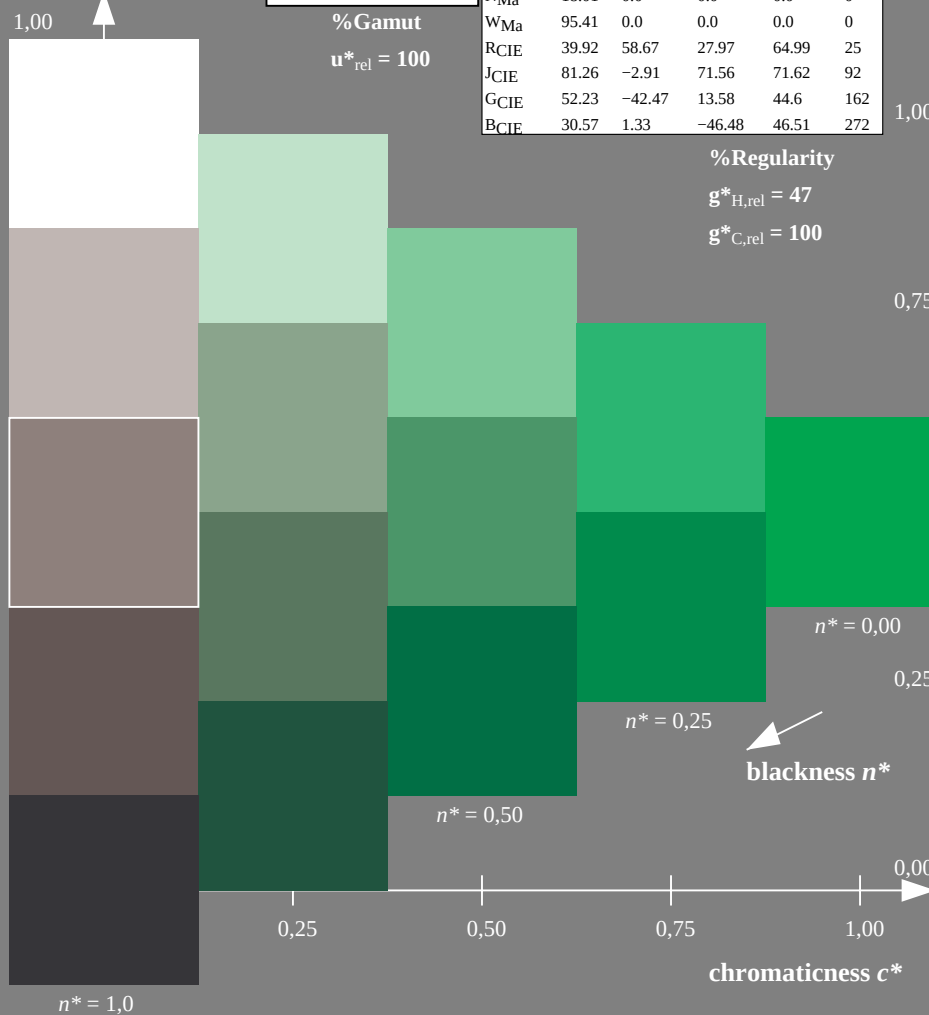


NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

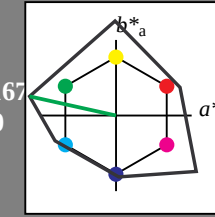
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

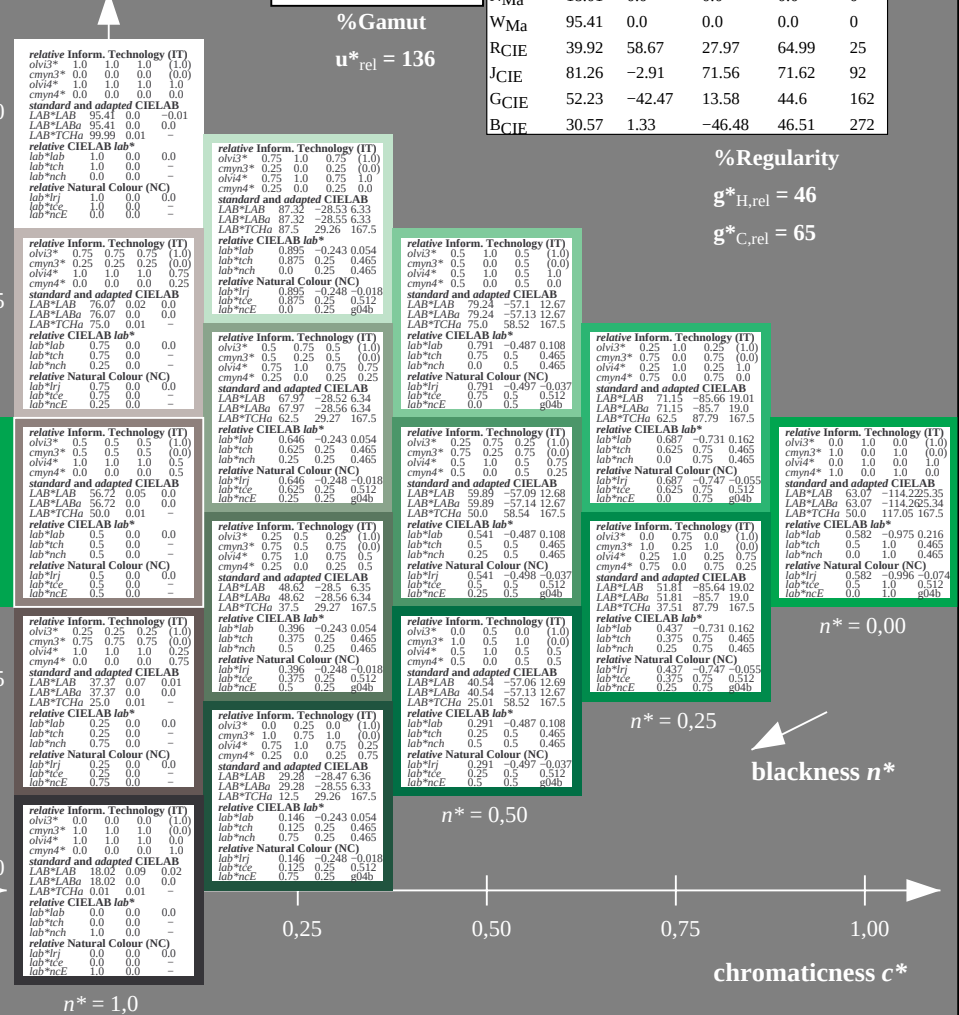


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

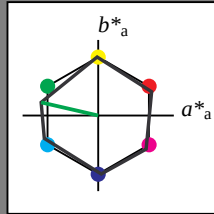
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

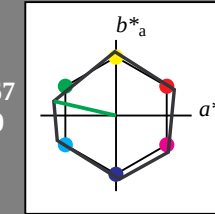
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

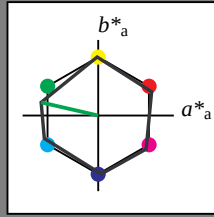
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

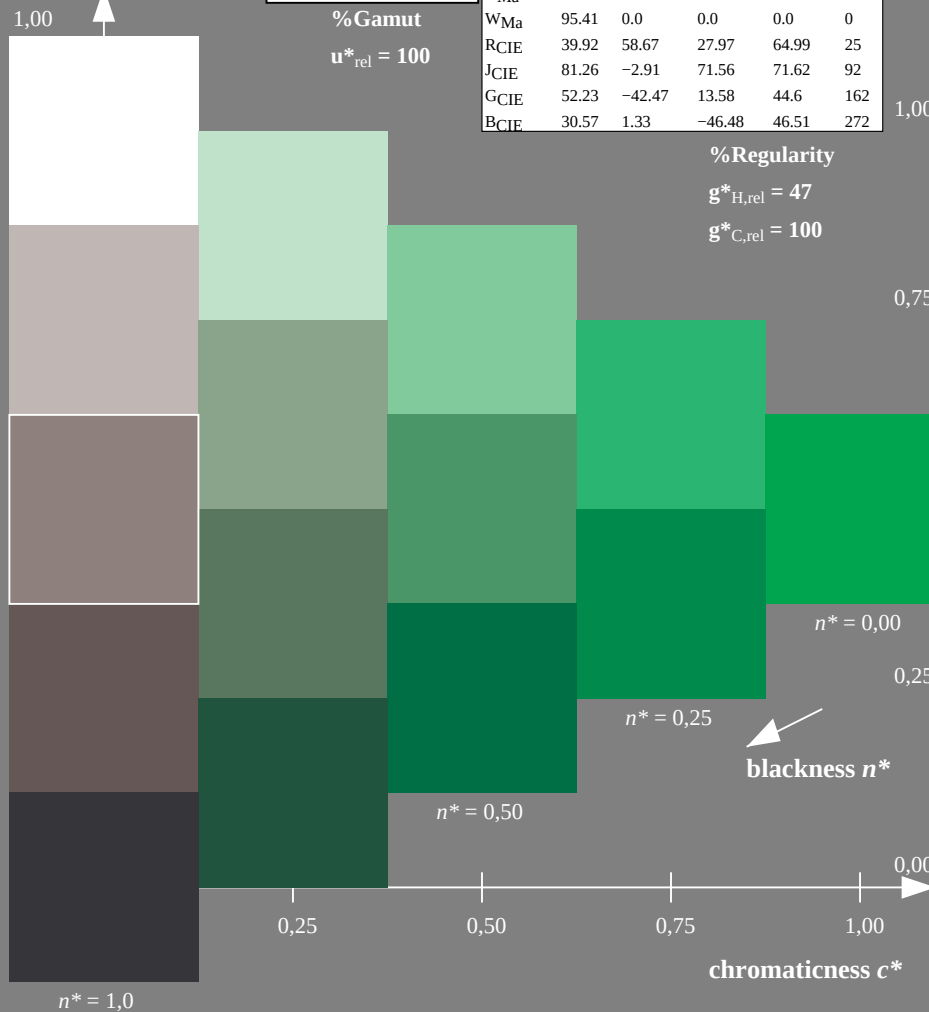
$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

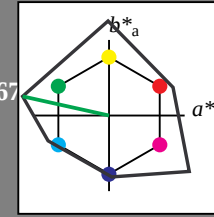
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

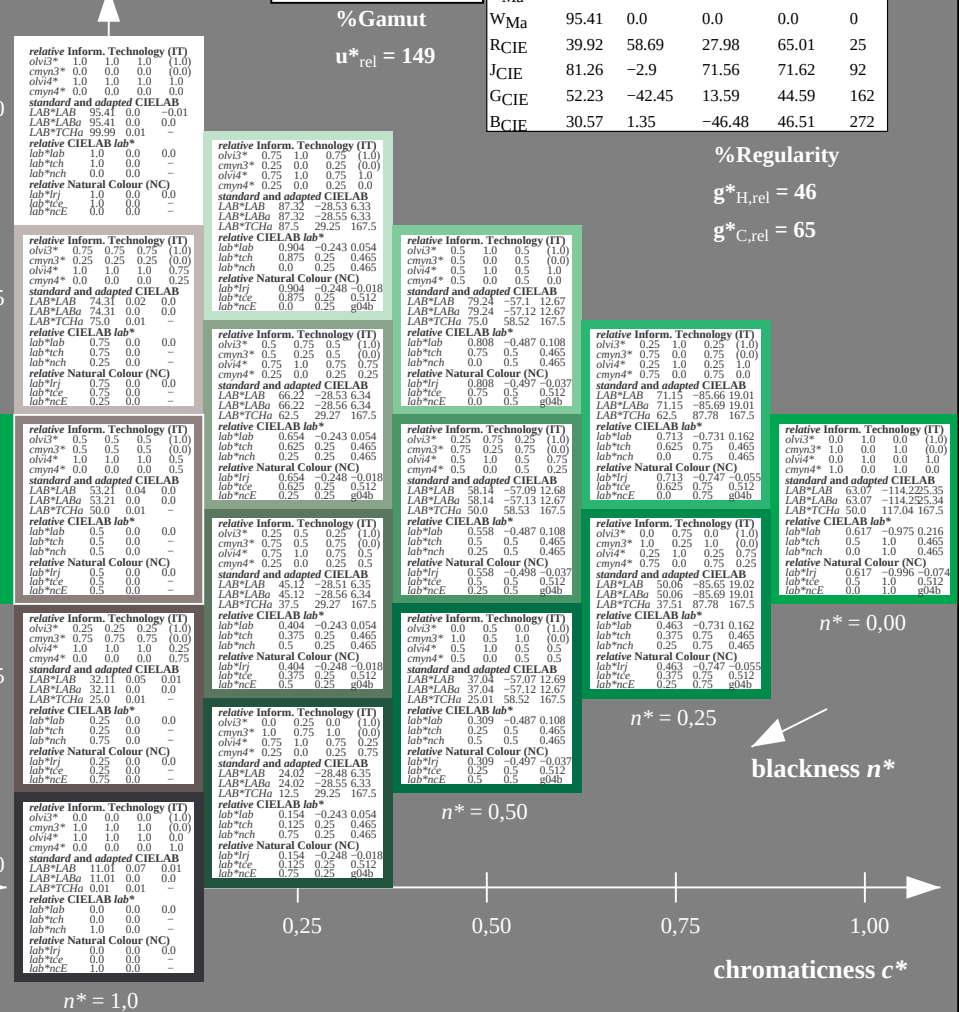
$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

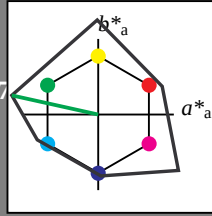
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

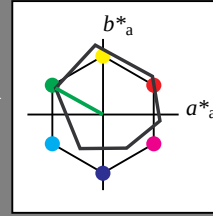
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0	0.0	0.0
lab*nch	0.0	0.0	1.0	0.0	0.0
lab*trj	0.0	0.0	0.0	1.0	0.0
lab*tce	0.0	0.0	0.0	0.0	1.0

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	95.41	0.0	0.0	0.0	0.0
lab*tch	99.99	0.01	-	-	-
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0	0.0	0.0
lab*nch	0.0	0.0	1.0	0.0	0.0
lab*trj	0.0	0.0	0.0	1.0	0.0
lab*tce	0.0	0.0	0.0	0.0	1.0

relative Natural Colour (NC)					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	0.856	0.0	0.0	0.0	0.0
lab*tch	0.875	0.25	0.0	0.0	0.0
lab*nch	0.0	0.25	0.25	0.0	0.0
lab*trj	0.0	0.0	0.0	0.25	0.0
lab*tce	0.0	0.0	0.0	0.0	0.25

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	76.06	0.0	0.0	0.0	0.0
lab*tch	75.0	0.01	-	-	-
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*tch	0.75	0.25	0.0	0.0	0.0
lab*nch	0.0	0.25	0.25	0.0	0.0
lab*trj	0.0	0.0	0.0	0.25	0.0
lab*tce	0.0	0.0	0.0	0.0	0.25

relative Natural Colour (NC)					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	0.606	0.0	0.0	0.0	0.0
lab*tch	0.625	0.25	0.0	0.0	0.0
lab*nch	0.0	0.25	0.25	0.0	0.0
lab*trj	0.0	0.0	0.0	0.25	0.0
lab*tce	0.0	0.0	0.0	0.0	0.25

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	56.71	0.0	0.0	0.0	0.0
lab*tch	50.0	0.01	-	-	-
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*tch	0.5	0.25	0.0	0.0	0.0
lab*nch	0.0	0.25	0.25	0.0	0.0
lab*trj	0.0	0.0	0.0	0.25	0.0
lab*tce	0.0	0.0	0.0	0.0	0.25

relative Natural Colour (NC)					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	0.356	0.0	0.0	0.0	0.0
lab*tch	0.375	0.25	0.0	0.0	0.0
lab*nch	0.0	0.25	0.25	0.0	0.0
lab*trj	0.0	0.0	0.0	0.25	0.0
lab*tce	0.0	0.0	0.0	0.0	0.25

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	37.36	0.0	0.0	0.0	0.0
lab*tch	25.0	0.01	-	-	-
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.25	0.125	0.0	0.0	0.0
lab*nch	0.0	0.125	0.125	0.0	0.0
lab*trj	0.0	0.0	0.0	0.125	0.0
lab*tce	0.0	0.0	0.0	0.0	0.125

relative Natural Colour (NC)					
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.25	0.125	0.0	0.0	0.0
lab*nch	0.0	0.125	0.125	0.0	0.0
lab*trj	0.0	0.0	0.0	0.125	0.0
lab*tce	0.0	0.0	0.0	0.0	0.125

$n^* = 1,0$

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

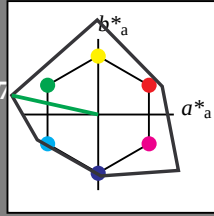
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

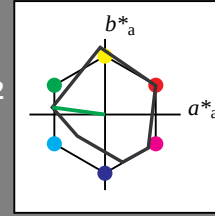
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 172/360 = 0.479 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

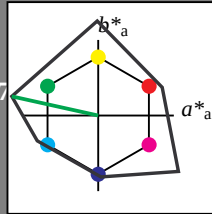
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

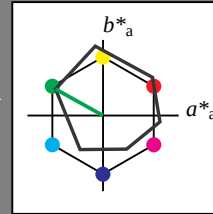
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCMa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 0.0 0.0
LAB*LABa 76.06 0.0 0.0
LAB*TCMa 75.0 0.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 -
lab*nch 0.25 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.25 0.0 -

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.23 2.14
LAB*LABa 56.71 0.23 2.14
LAB*TCMa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.83
LAB*LABa 37.36 0.13 0.83
LAB*TCMa 25.0 0.01 -

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 -
lab*nch 0.75 0.0 -
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 -
lab*nce 0.75 0.0 -

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 -0.46
LAB*LABa 18.02 0.5 -0.46
LAB*TCMa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (0.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 26.24 -15.34 8.82
LAB*LABa 26.24 -15.34 8.82
LAB*TCMa 12.5 17.96 150.91

relative CIELAB lab*

lab*lab 0.106 -0.217 0.122
lab*tch 0.125 0.25 0.419
lab*nch 0.75 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.75 0.25 0.419

$n^* = 1,0$

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olvi3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 84.28 -16.45 12.74
LAB*LABa 84.28 -16.45 12.74
LAB*TCMa 87.5 17.96 150.91

relative CIELAB lab*

lab*lab 0.856 -0.217 0.122
lab*tch 0.875 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.856 -0.238 0.072
lab*tce 0.875 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)

olvi3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olvi4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 64.93 -16.09 11.44
LAB*LABa 64.93 -16.09 11.44
LAB*TCMa 62.5 17.97 150.91

relative CIELAB lab*

lab*lab 0.606 -0.217 0.122
lab*tch 0.625 0.25 0.419
lab*nch 0.25 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.606 -0.238 0.072
lab*tce 0.625 0.25 0.453
lab*nce 0.25 0.25 0.419

relative Inform. Technology (IT)

olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 53.8 -31.37 13.42
LAB*LABa 53.8 -31.37 13.42
LAB*TCMa 50.0 35.94 150.91

relative CIELAB lab*

lab*lab 0.462 -0.436 0.243
lab*tch 0.475 0.25 0.419
lab*nch 0.25 0.5 0.419
relative Natural Colour (NC)
lab*trj 0.462 -0.478 0.144
lab*tce 0.475 0.25 0.453
lab*nce 0.25 0.5 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 1.0 0.25 1.0 (0.0)
olvi4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 42.68 -47.06 27.41
LAB*LABa 42.68 -47.06 27.41
LAB*TCMa 37.51 53.9 150.91

relative CIELAB lab*

lab*lab 0.319 -0.654 0.365
lab*tch 0.375 0.25 0.419
lab*nch 0.5 0.75 0.419
relative Natural Colour (NC)
lab*trj 0.319 -0.717 0.217
lab*tce 0.375 0.25 0.453
lab*nce 0.5 0.75 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olvi4* 0.75 1.0 0.75 (0.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 26.24 -15.34 8.82
LAB*LABa 26.24 -15.34 8.82
LAB*TCMa 12.5 17.96 150.91

relative CIELAB lab*

lab*lab 0.106 -0.217 0.122
lab*tch 0.125 0.25 0.419
lab*nch 0.75 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.75 0.25 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olvi4* 0.75 1.0 0.75 (0.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 26.24 -15.34 8.82
LAB*LABa 26.24 -15.34 8.82
LAB*TCMa 12.5 17.96 150.91

relative CIELAB lab*

lab*lab 0.106 -0.217 0.122
lab*tch 0.125 0.25 0.419
lab*nch 0.75 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.75 0.25 0.419

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olvi3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olvi4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.15 -31.94 20.73
LAB*LABa 73.15 -31.94 20.73
LAB*TCMa 75.0 35.93 150.91

relative CIELAB lab*

lab*lab 0.712 -0.436 0.243
lab*tch 0.75 0.25 0.419
lab*nch 0.0 0.5 0.419
relative Natural Colour (NC)
lab*trj 0.712 -0.478 0.144
lab*tce 0.75 0.25 0.453
lab*nce 0.0 0.5 0.419

relative Inform. Technology (IT)

olvi3* 0.25 1.0 0.25 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olvi4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 62.02 -47.43 28.71
LAB*LABa 62.02 -47.43 28.71
LAB*TCMa 62.5 53.9 150.91

relative CIELAB lab*

lab*lab 0.569 -0.654 0.365
lab*tch 0.625 0.25 0.419
lab*nch 0.0 0.75 0.419
relative Natural Colour (NC)
lab*trj 0.569 -0.717 0.217
lab*tce 0.625 0.25 0.453
lab*nce 0.0 0.75 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 1.0 0.25 1.0 (0.0)
olvi4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 50.9 -62.91 36.69
LAB*LABa 50.9 -62.91 36.69
LAB*TCMa 50.0 71.86 150.91

relative CIELAB lab*

lab*lab 0.425 -0.873 0.486
lab*tch 0.5 1.0 0.419
lab*nch 0.0 1.0 0.419
relative Natural Colour (NC)
lab*trj 0.425 -0.956 0.289
lab*tce 0.5 1.0 0.453
lab*nce 0.0 1.0 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 1.0 0.25 1.0 (0.0)
olvi4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 42.68 -47.06 27.41
LAB*LABa 42.68 -47.06 27.41
LAB*TCMa 37.51 53.9 150.91

relative CIELAB lab*

lab*lab 0.319 -0.654 0.365
lab*tch 0.375 0.25 0.419
lab*nch 0.5 0.75 0.419
relative Natural Colour (NC)
lab*trj 0.319 -0.717 0.217
lab*tce 0.375 0.25 0.453
lab*nce 0.5 0.75 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olvi4* 0.75 1.0 0.75 (0.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 26.24 -15.34 8.82
LAB*LABa 26.24 -15.34 8.82
LAB*TCMa 12.5 17.96 150.91

relative CIELAB lab*

lab*lab 0.106 -0.217 0.122
lab*tch 0.125 0.25 0.419
lab*nch 0.75 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.75 0.25 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olvi4* 0.75 1.0 0.75 (0.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 26.24 -15.34 8.82
LAB*LABa 26.24 -15.34 8.82
LAB*TCMa 12.5 17.96 150.91

relative CIELAB lab*

lab*lab 0.106 -0.217 0.122
lab*tch 0.125 0.25 0.419
lab*nch 0.75 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.75 0.25 0.419

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olvi4* 0.75 1.0 0.75 (0.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 26.24 -15.34 8.82
LAB*LABa 26.24 -15.34 8.82
LAB*TCMa 12.5 17.96 150.91

relative CIELAB lab*

lab*lab 0.106 -0.217 0.122
lab*tch 0.125 0.25 0.419
lab*nch 0.75 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.75 0.25 0.419

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

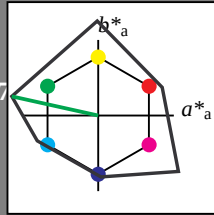
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

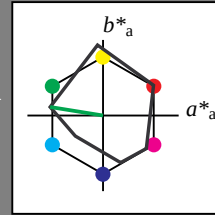
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 171/360 = 0.475 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

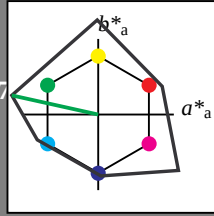
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

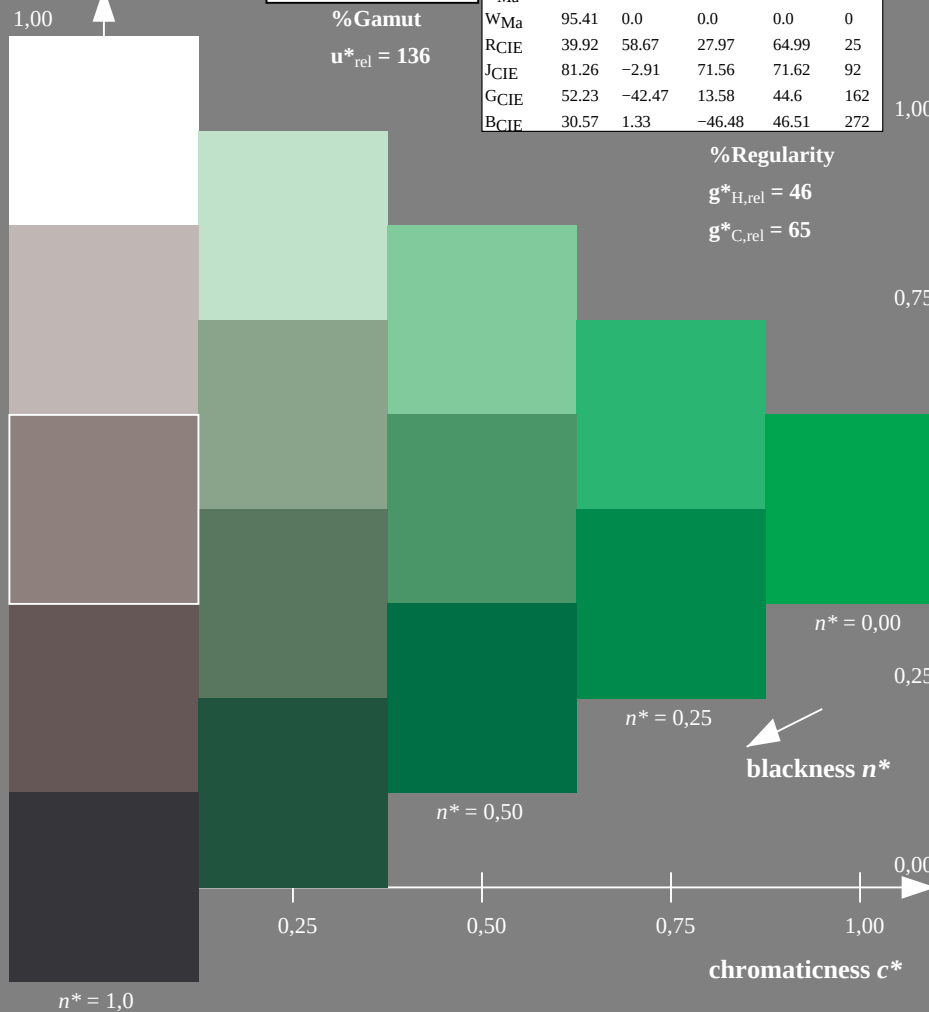
$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

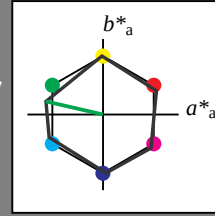
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

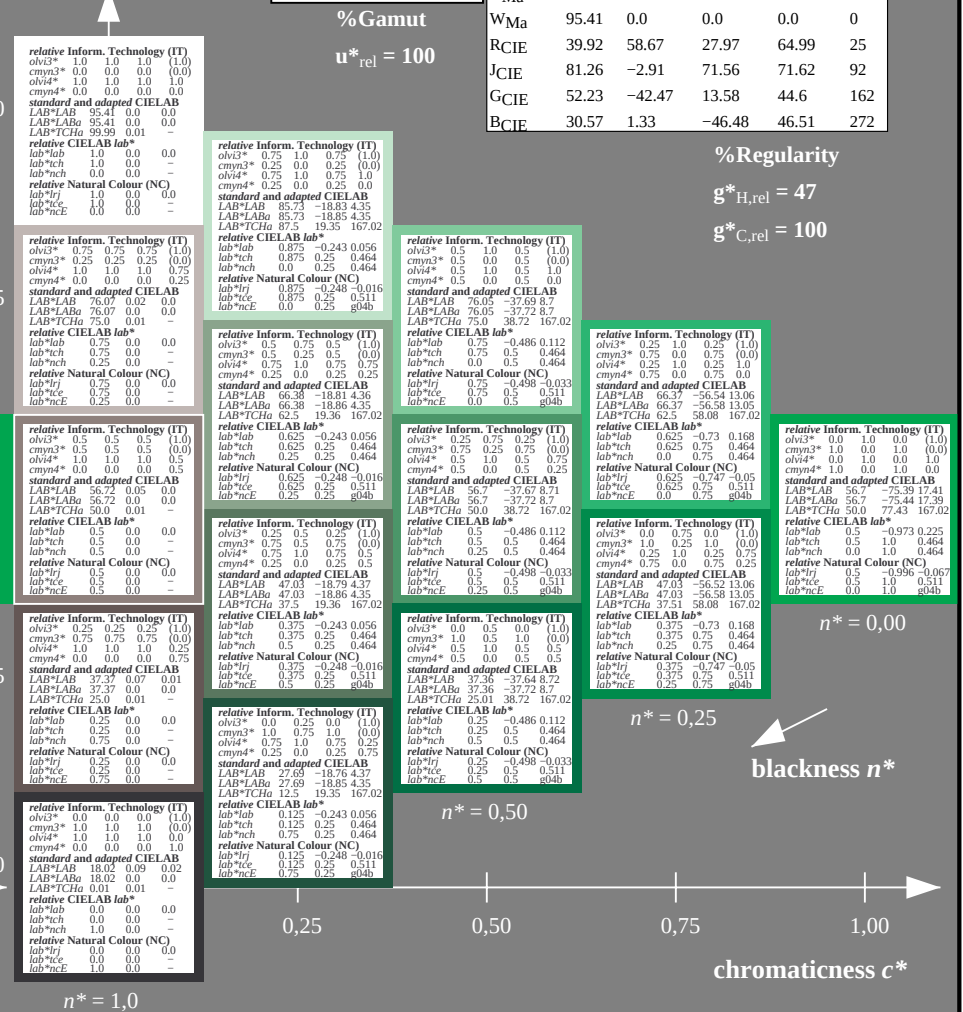
$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

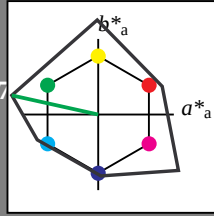
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

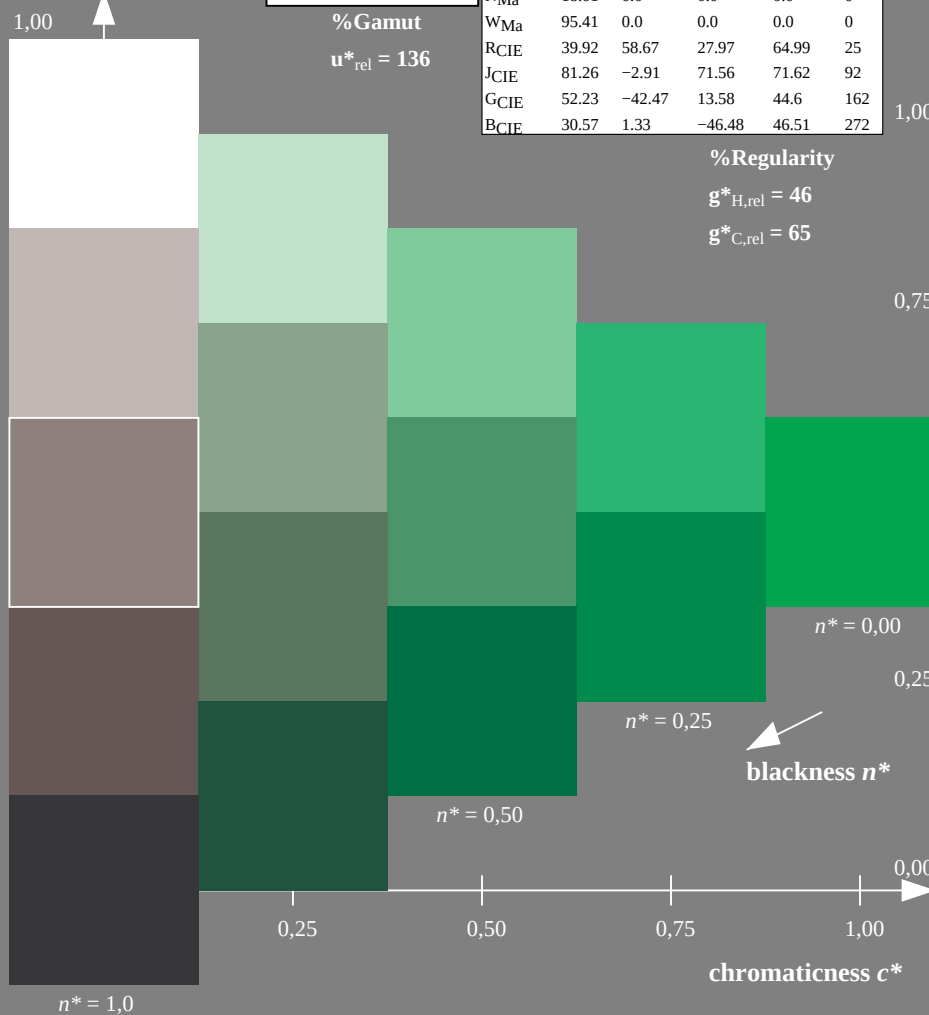
$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

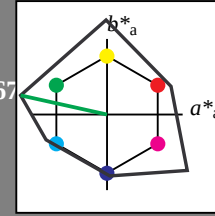
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

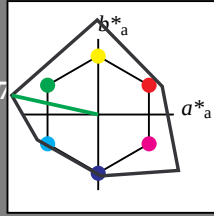
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

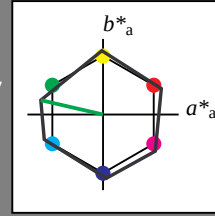
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

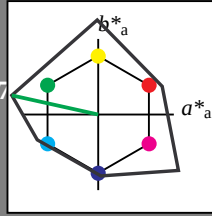
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

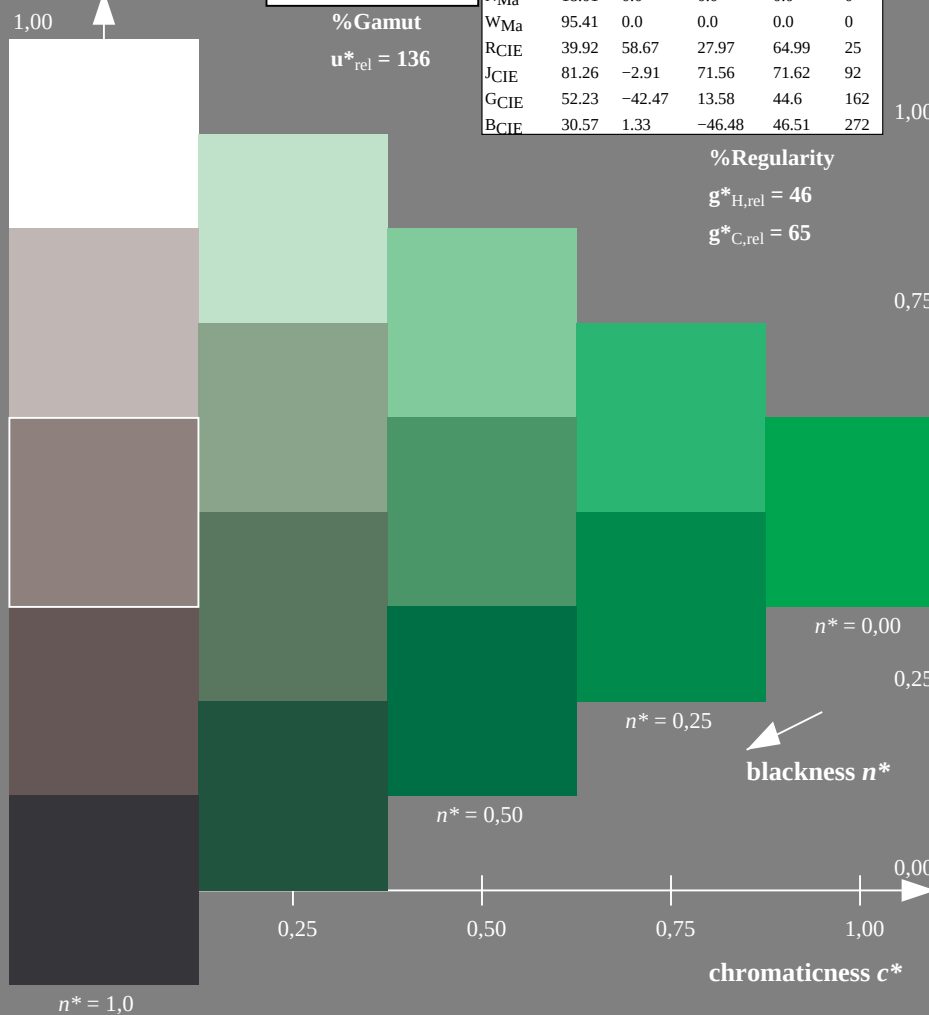
$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.06	167
G50B _{Ma}	59.47	-80.61	-33.45	87.28	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

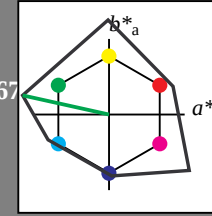
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(0.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	0.75	(0.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	(0.0)
cmyn4*	0.0	0.0	0.0	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	(0.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	(0.0)
cmyn4*	0.0	0.0	0.0	1.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	0.75	(1.0)	
cmyn3*	0.25	0.0	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	1.0	(0.0)
cmyn4*	0.25	0.0	0.25	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	87.32	-28.53	6.33		
LAB*LABa	87.32	-28.53	6.33		
LAB*TC _{Ma}	87.5	29.25	167.5		
relative CIELAB lab*					
lab*lab	0.904	-0.243	0.054		
lab*tch	0.875	0.25	0.465		
lab*nch	0.0	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.904	-0.248	-0.018		
lab*tce	0.25	0.25	0.512		
lab*nce	0.0	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.5	(1.0)	
cmyn3*	0.5	0.25	0.5	(0.0)	
olvi4*	1.0	0.75	0.75	0.5	(0.0)
cmyn4*	0.25	0.0	0.25	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	66.22	-28.53	6.34		
LAB*LABa	66.22	-28.53	6.34		
LAB*TC _{Ma}	62.5	29.27	167.5		
relative CIELAB lab*					
lab*lab	0.654	-0.243	0.054		
lab*tch	0.625	0.25	0.465		
lab*nch	0.25	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.654	-0.248	-0.018		
lab*tce	0.625	0.25	0.512		
lab*nce	0.25	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.25	(1.0)	
cmyn3*	0.75	0.5	0.75	(0.0)	
olvi4*	1.0	0.5	0.5	0.25	(0.0)
cmyn4*	0.25	0.0	0.25	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	45.12	-28.51	6.35		
LAB*LABa	45.12	-28.51	6.35		
LAB*TC _{Ma}	37.5	29.27	167.5		
relative CIELAB lab*					
lab*lab	0.404	-0.243	0.054		
lab*tch	0.375	0.25	0.465		
lab*nch	0.5	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.404	-0.248	-0.018		
lab*tce	0.375	0.25	0.512		
lab*nce	0.5	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.0	(1.0)	
cmyn3*	1.0	0.75	1.0	(0.0)	
olvi4*	0.75	1.0	0.75	0.25	(0.0)
cmyn4*	0.25	0.0	0.25	0.75	(0.0)
standard and adapted CIELAB					
LAB*LAB	24.02	-28.48	6.35		
LAB*LABa	24.02	-28.48	6.35		
LAB*TC _{Ma}	12.5	29.27	167.5		
relative CIELAB lab*					
lab*lab	0.154	-0.243	0.054		
lab*tch	0.125	0.25	0.465		
lab*nch	0.75	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.154	-0.248	-0.018		
lab*tce	0.125	0.25	0.512		
lab*nce	0.75	0.25	0.465		

relative Inform. Technology (IT)				
olvi3*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.5	1.0	0.5	1.0
cmyn4*	0.5	0.0	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	79.24	-57.1	12.67	
LAB*LABa	79.24	-57.12	12.67	

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

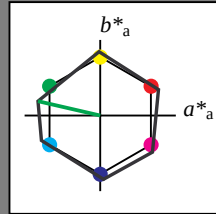
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

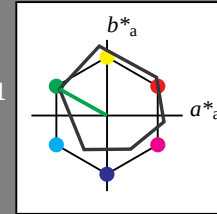
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

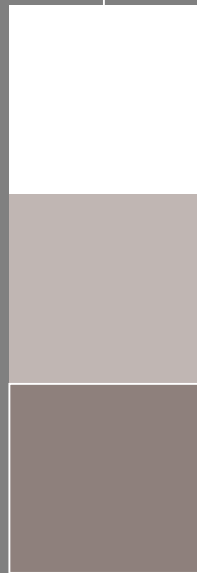
D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

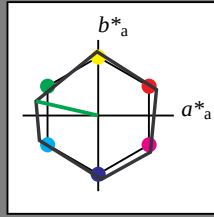
triangle lightness

1,00



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

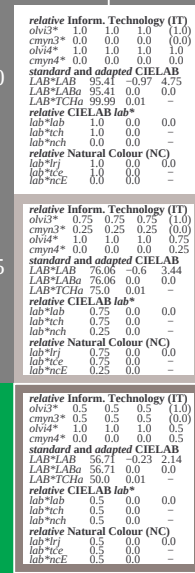
D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

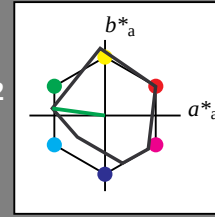
triangle lightness

1,00



$n^* = 1,0$

5 step scales for constant CIELAB hue 172/360 = 0.479 (right)



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	(1.0)	
cmyn4*	0.25	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	0.5	0.5	0.5	(1.0)	
cmyn4*	0.25	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	45.88	-17.42	3.78		
LAB*LABa	45.88	-17.42	3.78		
LAB*TCRa	37.5	17.59	172.29		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	0.75	(1.0)	
cmyn3*	0.25	0.0	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	(1.0)	
cmyn4*	0.25	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	84.58	-18.19	6.39		
LAB*LABa	84.58	-17.42	2.36		
LAB*TCRa	87.5	17.59	172.29		
relative CIELAB lab*					
lab*lab	0.86	-0.247	0.034		
lab*tch	0.875	0.25	0.479		
lab*nch	0.0	0.25	0.479		
relative Natural Colour (NC)					
lab*trj	0.86	-0.247	-0.028		
lab*tce	0.875	0.25	0.518		
lab*nce	0.0	0.25	0.076		

relative Inform. Technology (IT)					
olvi3*	0.5	1.0	0.5	(1.0)	
cmyn3*	0.5	0.0	0.5	(0.0)	
olvi4*	0.5	1.0	0.5	(1.0)	
cmyn4*	0.5	0.0	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	73.75	-35.42	8.02		
LAB*LABa	73.75	-34.85	4.72		
LAB*TCRa	75.0	35.18	172.29		
relative CIELAB lab*					
lab*lab	0.72	-0.494	0.067		
lab*tch	0.75	0.25	0.479		
lab*nch	0.0	0.25	0.479		
relative Natural Colour (NC)					
lab*trj	0.72	-0.496	-0.056		
lab*tce	0.75	0.25	0.518		
lab*nce	0.0	0.25	0.076		

LAB*TCtHa				50.0	35.19	172.29
relative CIELAB lab*						
lab*lab	0.47			-0.494	0.067	
lab*tc	0.5	0.5		0.5	0.479	
lab*nch	0.25	0.5		0.5	0.479	
relative Natural Colour (NC)						
lab*lrj	0.47			-0.496	-0.056	
lab*tc	0.5	0.5		0.5	0.518	
lab*nc	0.25	0.5		0.5	g07b	
relative Inform. Technology (IT)						
olvi3*	0.0	0.5	0.0		(1.0)	
cmyn3*	1.0	0.5	1.0		(0.0)	
olvi4*	0.5	1.0	0.5		(0.5)	
olvi4*	0.5	0.0	0.5		0.5	
standard and adapted CIELAB						

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

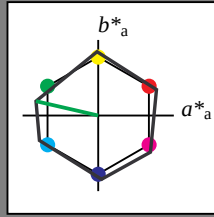
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

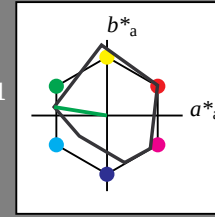
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

5 step scales for constant CIELAB hue 171/360 = 0.475 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

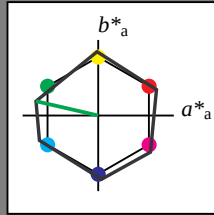
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

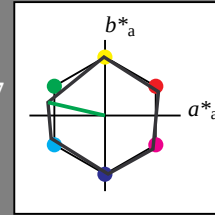
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

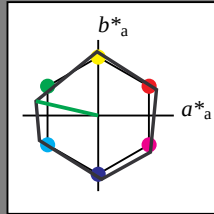
1,00

0,25

0,50

0,75

1,00



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

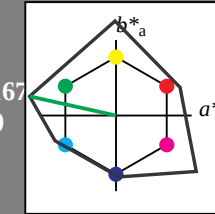
1,00

0,25

0,50

0,75

1,00



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.464 (left)

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

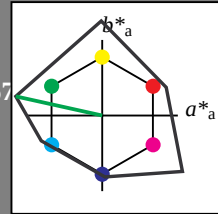
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

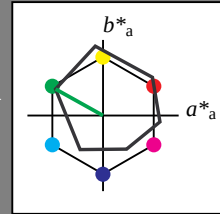
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

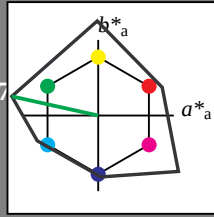
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

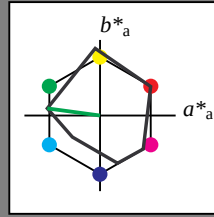
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

5 step scales for constant CIELAB hue 172/360 = 0.479 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

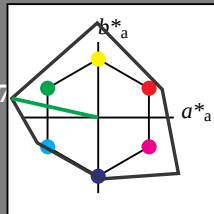
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS11; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

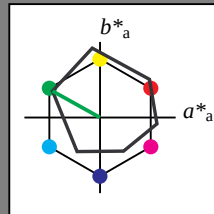
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

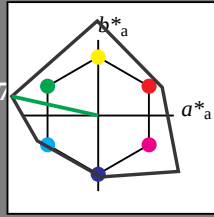
$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25 0,50 0,75 1,00

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25 0,50 0,75 1,00

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

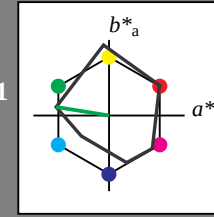
$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25 0,50 0,75 1,00

5 step scales for constant CIELAB hue 171/360 = 0.475 (right)



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25 0,50 0,75 1,00

5 step scales for constant CIELAB hue 171/360 = 0.475 (right)

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (0.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 1.0 0.0 0.0

lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (0.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 0.0 0.0

LAB*LABa 76.06 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*tch 0.75 0.0 -

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.75 0.0 0.0

lab*tce 0.75 0.0 0.0

lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (1.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 1.0 1.0 1.0 (0.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 65.23 0.0 0.0

LAB*LABa 65.23 0.0 0.0

LAB*TCHa 62.5 17.71 170.85

relative CIELAB lab*

lab*lab 0.61 -0.246 0.04

lab*tch 0.625 0.25 0.475

lab*nch 0.25 0.25 0.475

relative Natural Colour (NC)

lab*trj 0.61 -0.247 -0.03

lab*tce 0.625 0.25 0.52

lab*nce 0.25 0.25 0.076

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (1.0)

cmyn3* 0.75 0.75 0.75 (0.0)

olvi4* 1.0 1.0 1.0 (0.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 56.71 0.0 0.0

LAB*LABa 56.71 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.5 0.0 0.0

lab*tce 0.5 0.0 0.0

lab*nce 0.5 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (1.0)

cmyn3* 0.75 0.75 0.75 (0.0)

olvi4* 1.0 1.0 1.0 (0.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 37.36 0.07 0.01

LAB*LABa 37.36 0.0 0.0

LAB*TCHa 25.0 0.01 -

relative CIELAB lab*

lab*lab 0.25 0.0 0.0

lab*tch 0.25 0.0 -

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.25 0.0 0.0

lab*tce 0.25 0.0 0.0

lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)

cmyn3* 1.0 0.75 1.0 (0.0)

olvi4* 0.75 1.0 0.75 0.25

cmyn4* 0.25 0.0 0.25 0.5

standard and adapted CIELAB

LAB*LAB 45.88 -17.41 2.83

LAB*LABa 45.88 -17.41 2.83

LAB*TCHa 37.5 17.71 170.85

relative CIELAB lab*

lab*lab 0.36 -0.246 0.04

lab*tch 0.375 0.25 0.475

lab*nch 0.5 0.25 0.475

relative Natural Colour (NC)

lab*trj 0.36 -0.247 -0.03

lab*tce 0.375 0.25 0.52

lab*nce 0.5 0.25 0.076

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.0 (1.0)

cmyn3* 0.25 0.5 0.25 (0.0)

olvi4* 1.0 0.5 1.0 (0.0)

cmyn4* 0.5 0.0 0.5 0.5

standard and adapted CIELAB

LAB*LAB 54.41 -34.93 5.63

LAB*LABa 54.41 -34.93 5.63

LAB*TCHa 50.0 35.42 170.85

relative CIELAB lab*

lab*lab 0.47 -0.493 0.08

lab*tch 0.475 0.25 0.475

lab*nch 0.5 0.25 0.475

relative Natural Colour (NC)

lab*trj 0.47 -0.495 0.06

lab*tce 0.5 0.25 0.52

lab*nce 0.25 0.25 0.076

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.0 (1.0)

cmyn3* 0.25 0.5 0.25 (0.0)

olvi4* 1.0 0.5 1.0 (0.0)

cmyn4* 0.5 0.0 0.5 0.5

standard and adapted CIELAB

LAB*LAB 43.59 -52.37 8.47

LAB*LABa 43.59 -52.37 8.47

LAB*TCHa 37.51 53.13 170.85

relative CIELAB lab*

lab*lab 0.33 -0.739 0.119

lab*tch 0.375 0.25 0.475

lab*nch 0.5 0.25 0.475

relative Natural Colour (NC)

lab*trj 0.33 -0.743 -0.091

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

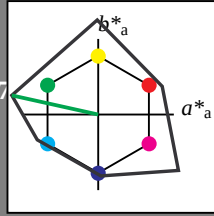
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

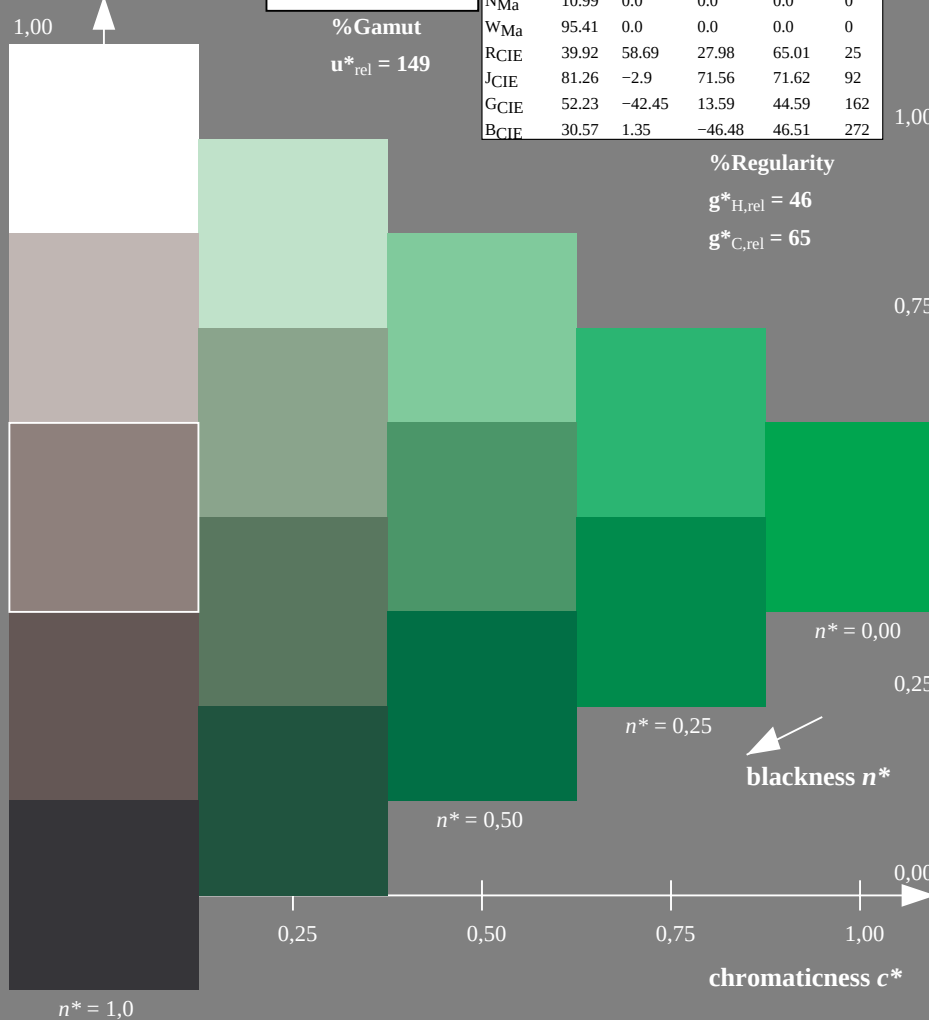
$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 167/360 = 0.465$

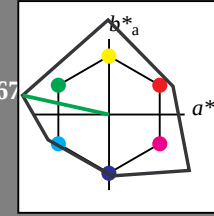
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	(0.75)	
cmyn4*	0.0	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.5)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	0.75	1.0	0.75	(0.75)	
cmyn4*	0.0	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.07	0.01		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.09	0.02		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

$n^* = 1,0$

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	0.75	(1.0)	
cmyn3*	0.25	0.0	0.25	(0.0)	
olvi4*	0.75	1.0	0.75	(1.0)	
cmyn4*	0.25	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	87.32	-28.53	6.33		
LAB*LABa	87.32	-28.53	6.33		
LAB*TCBa	87.5	29.26	167.5		
relative CIELAB lab*					
lab*lab	0.895	-0.243	0.054		
lab*lab	0.875	0.25	0.465		
lab*nch	0.0	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.895	-0.248	-0.018		
lab*nce	0.895	0.25	0.512		
lab*nce	0.0	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.5	(1.0)	
cmyn3*	0.5	0.25	0.5	(0.0)	
olvi4*	0.75	1.0	0.75	(0.75)	
cmyn4*	0.25	0.0	0.25	(0.25)	
standard and adapted CIELAB					
LAB*LAB	67.97	-28.52	6.34		
LAB*LABa	67.97	-28.52	6.34		
LAB*TCBa	62.5	29.27	167.5		
relative CIELAB lab*					
lab*lab	0.646	-0.243	0.054		
lab*lab	0.625	0.25	0.465		
lab*nch	0.25	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.646	-0.248	-0.018		
lab*nce	0.625	0.25	0.512		
lab*nce	0.25	0.25	0.465		

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.25	(1.0)	
cmyn3*	0.75	0.5	0.75	(0.0)	
olvi4*	1.0	0.75	1.0	(0.75)	
cmyn4*	0.25	0.0	0.25	(0.5)	
standard and adapted CIELAB					
LAB*LAB	59.89	-57.09	12.68		
LAB*LABa	59.89	-57.14	12.67		
LAB*TCBa	50.0	58.54	167.5		
relative CIELAB lab*					
lab*lab	0.541	-0.487	0.108		
lab*lab	0.5	0.5	0.465		
lab*nch	0.25	0.5	0.465		
relative Natural Colour (NC)					
lab*trj	0.541	-0.498	0.037		
lab*nce	0.5	0.5	0.512		
lab*nce	0.25	0.5	0.465		

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.0	(1.0)	
cmyn3*	1.0	0.75	1.0	(0.0)	
olvi4*	0.75	1.0	0.75	(0.75)	
cmyn4*	0.25	0.0	0.25	(0.75)	
standard and adapted CIELAB					
LAB*LAB	29.28	-28.47	6.36		
LAB*LABa	29.28	-28.55	6.33		
LAB*TCBa	12.5	29.26	167.5		
relative CIELAB lab*					
lab*lab	0.146	-0.243	0.054		
lab*lab	0.125	0.25	0.465		
lab*nch	0.75	0.25	0.465		
relative Natural Colour (NC)					
lab*trj	0.146	-0.248	-0.018		
lab*nce	0.125	0.25	0.512		
lab*nce	0.75	0.25	0.465		

$n^* = 0,50$

relative Inform. Technology (IT)					
olvi3*	0.5	1.0	0.5	(1.0)	
cmyn3*	0.5	0.0	0.5	(0.0)	
olvi4*	0.5	1.0	0.5	(1.0)	
cmyn4*	0.5	0.0	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	79.24	-57.1	12.67		
LAB*LABa	79.24	-57.13	12.67		
LAB*TCBa	75.0	58.52	167.5		
relative CIELAB lab*					
lab*lab	0.791	-0.487	0.108		
lab*lab	0.75	0.5	0.465		
lab*nch	0.0	0.5	0.465		
relative Natural Colour (NC)					
lab*trj	0.791	-0.497	-0.037		
lab*nce	0.75	0.5	0.512		
lab*nce	0.0	0.5	0.465		

relative CIELAB Lab*				
lab*lab	0.791	-0.487	0.108	
lab*ch	0.75	0.5	0.465	
lab*nc	0.0	0.5	0.465	
relative Natural Colour (NC)				
lab*lr	0.791	-0.497	0.032	
lab*ce	0.75	0.5	0.465	
lab*ncE	0.0	0.5	g04b	
relative Inform. Technology (IT)				
olvi3*	0.25	0.75	0.25	(1.0)
cmyn3*	0.75	0.25	0.75	(0.0)
olvi4*	0.5	1.0	0.5	0.75
cmyn4*	0.5	0.0	0.5	0.25
standard and adapted CIELAB				
LAB*LAB	59.89	-57.09	12.68	
LAB*LABa	59.89	-57.14	12.67	
LAB*LABb	59.89	-57.14	12.67	
LAB*LABc	59.89	-57.14	12.67	
LAB*LABd	59.89	-57.14	12.67	
LAB*LABe	59.89	-57.14	12.67	
LAB*LABf	59.89	-57.14	12.67	
LAB*LABg	59.89	-57.14	12.67	
LAB*LABh	59.89	-57.14	12.67	
LAB*LABi	59.89	-57.14	12.67	
LAB*LABj	59.89	-57.14	12.67	
LAB*LABk	59.89	-57.14	12.67	
LAB*LABl	59.89	-57.14	12.67	
LAB*LABm	59.89	-57.14	12.67	
LAB*LABn	59.89	-57.14	12.67	
LAB*LABo	59.89	-57.14	12.67	
LAB*LABp	59.89	-57.14	12.67	
LAB*LABq	59.89	-57.14	12.67	
LAB*LABr	59.89	-57.14	12.67	
LAB*LABs	59.89	-57.14	12.67	
LAB*LABt	59.89	-57.14	12.67	
LAB*LABu	59.89	-57.14	12.67	
LAB*LABv	59.89	-57.14	12.67	
LAB*LABw	59.89	-57.14	12.67	
LAB*LABx	59.89	-57.14	12.67	
LAB*LABy	59.89	-57.14	12.67	
LAB*LABz	59.89	-57.14	12.67	

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

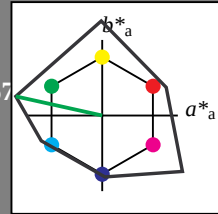
0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

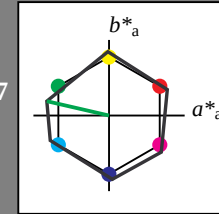
0,75

1,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 -0.01

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 0.0 0.0 0.0

lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.0 0.0

LAB*LABa 74.31 0.0 0.0

LAB*TCHa 75.01 -

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*tch 0.75 0.0 -

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.75 0.0 0.0

lab*tce 0.25 0.0 0.0

lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (1.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 53.21 0.0 0.0

LAB*LABa 53.21 0.0 0.0

LAB*TCHa 50.0 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.5 0.0 0.0

lab*tce 0.5 0.0 0.0

lab*nce 0.5 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (1.0)

cmyn3* 0.75 0.75 0.75 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 32.11 0.05 0.01

LAB*LABa 32.11 0.05 0.01

LAB*TCHa 25.0 0.01

relative CIELAB lab*

lab*lab 0.25 0.0 0.0

lab*tch 0.25 0.0 -

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.25 0.0 0.0

lab*tce 0.25 0.0 0.0

lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)

cmyn3* 1.0 1.0 1.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 11.01 0.07 0.01

LAB*LABa 11.01 0.07 0.01

LAB*TCHa 0.01 0.01

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0

lab*tce 0.0 0.0 0.0

lab*nce 1.0 0.0 -

relative Inform. Technology (IT)

olvi3* 0.75 1.0 0.75 (1.0)

cmyn3* 0.25 0.0 0.25 (0.0)

olvi4* 0.75 1.0 0.75 (1.0)

cmyn4* 0.25 0.0 0.25 (0.0)

standard and adapted CIELAB

LAB*LAB 84.85 -20.53 4.74

LAB*LABa 84.85 -20.53 4.74

LAB*TCHa 87.5 21.1 167.01

relative CIELAB lab*

lab*lab 0.875 -0.243 0.056

lab*tch 0.875 0.25 0.464

lab*nch 0.0 0.25 0.464

relative Natural Colour (NC)

lab*trj 0.875 -0.248 -0.016

lab*tce 0.875 0.25 0.511

lab*nce 0.0 0.25 0.046

relative Inform. Technology (IT)

olvi3* 0.5 1.0 0.5 (1.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 0.5 1.0 0.5 (1.0)

cmyn4* 0.5 0.5 0.5 (0.0)

standard and adapted CIELAB

LAB*LAB 74.3 -41.1 9.49

LAB*LABa 74.3 -41.1 9.49

LAB*TCHa 75.0 42.21 167.01

relative CIELAB lab*

lab*lab 0.75 -0.486 0.112

lab*tch 0.75 0.2 0.464

lab*nch 0.0 0.5 0.464

relative Natural Colour (NC)

lab*trj 0.75 -0.498 -0.033

lab*tce 0.75 0.2 0.511

lab*nce 0.0 0.5 0.046

relative Inform. Technology (

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

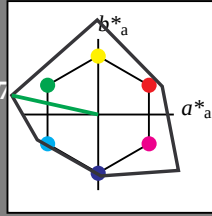
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

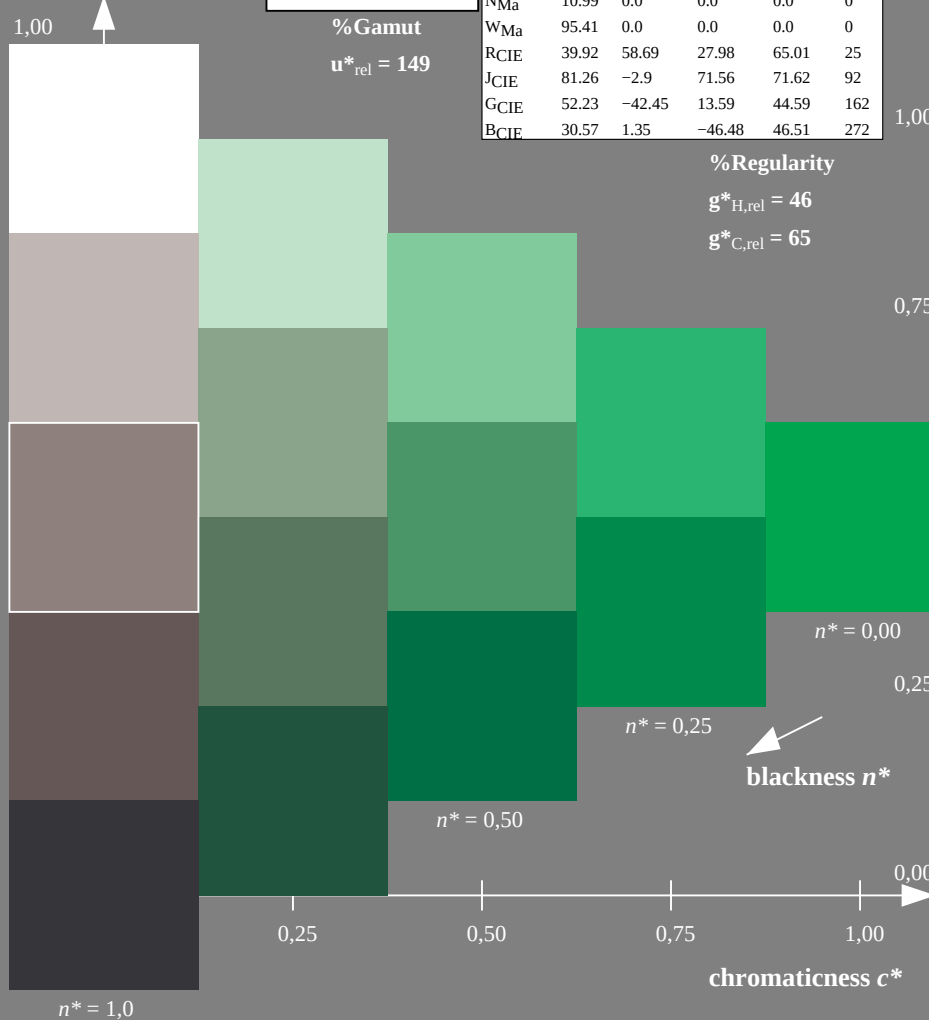
$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 167/360 = 0.465 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$

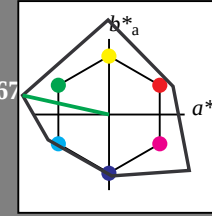
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
<i>olvi3*</i>	0.25	0.5	0.25	(1.0)	
<i>cmyrn3*</i>	0.75	0.5	0.75	(0.0)	
<i>olvi4*</i>	0.75	1.0	0.75	0.5	
<i>cmyrn4*</i>	0.25	0.0	0.25	0.5	
standard and adapted CIELAB					
LAB*LAB	45.12	-28.51	6.35		

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

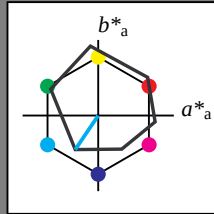
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

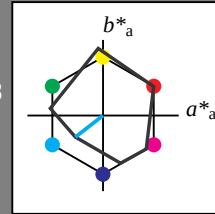
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

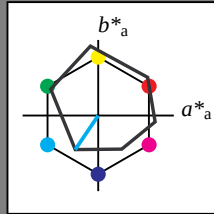
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

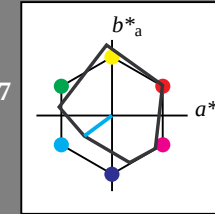
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

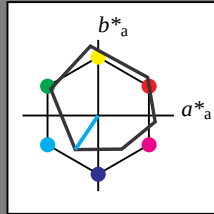
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

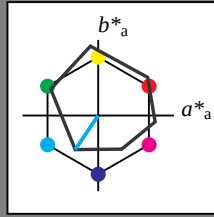
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

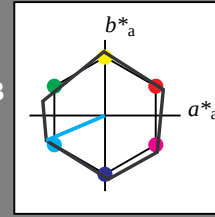
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

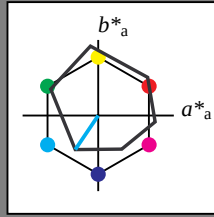
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

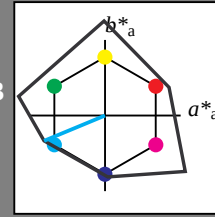
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$u^*_{rel} = 149$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

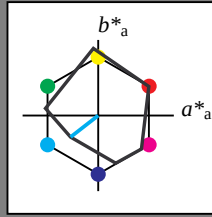
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

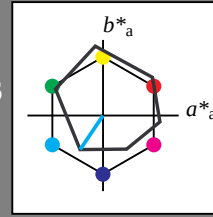
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

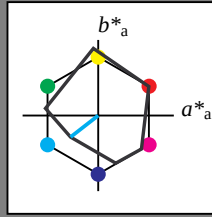
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

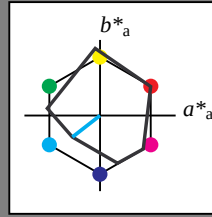
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

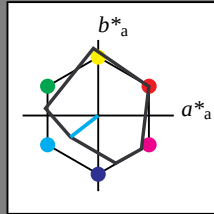
$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

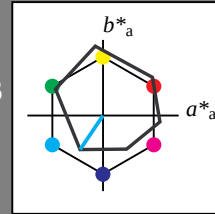
$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$



TRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

$g^*_{H,rel} = 57$

UE400-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

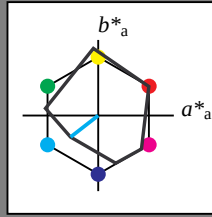
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

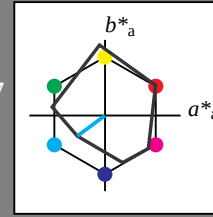
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 217/360 = 0.601 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

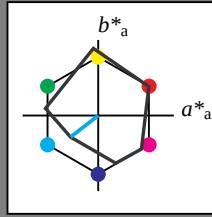
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

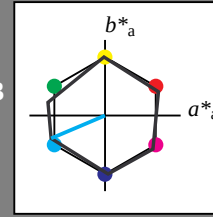
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

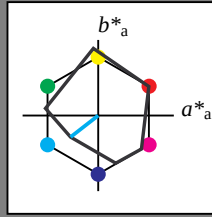
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

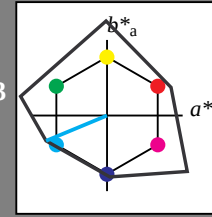
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

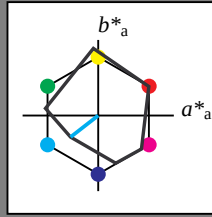
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

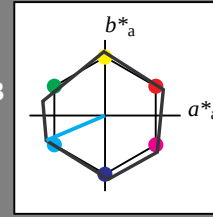
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	53.2	0.0	0.0	0.0	0.0
LAB*LABa	53.2	0.0	0.0	0.0	0.0
LAB*LABb	53.2	0.0	0.0	0.0	0.0
LAB*LABc	53.2	0.0	0.0	0.0	0.0
LAB*LABd	53.2	0.0	0.0	0.0	0.0
LAB*LABe	53.2	0.0	0.0	0.0	0.0
LAB*LABf	53.2	0.0	0.0	0.0	0.0
LAB*LABg	53.2	0.0	0.0	0.0	0.0
LAB*LABh	53.2	0.0	0.0	0.0	0.0
LAB*LABi	53.2	0.0	0.0	0.0	0.0
LAB*LABj	53.2	0.0	0.0	0.0	0.0
LAB*LABk	53.2	0.0	0.0	0.0	0.0
LAB*LABl	53.2	0.0	0.0	0.0	0.0
LAB*LABm	53.2	0.0	0.0	0.0	0.0
LAB*LABn	53.2	0.0	0.0	0.0	0.0
LAB*LABo	53.2	0.0	0.0	0.0	0.0
LAB*LABp	53.2	0.0	0.0	0.0	0.0
LAB*LABq	53.2	0.0	0.0	0.0	0.0
LAB*LABr	53.2	0.0	0.0	0.0	0.0
LAB*LABs	53.2	0.0	0.0	0.0	0.0
LAB*LABt	53.2	0.0	0.0	0.0	0.0
LAB*LABu	53.2	0.0	0.0	0.0	0.0
LAB*LABv	53.2	0.0	0.0	0.0	0.0
LAB*LABw	53.2	0.0	0.0	0.0	0.0
LAB*LABx	53.2	0.0	0.0	0.0	0.0
LAB*LABy	53.2	0.0	0.0	0.0	0.0
LAB*LABz	53.2	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	32.1	0.0	0.0	0.0	0.0
LAB*LABa	32.1	0.0	0.0	0.0	0.0
LAB*LABb	32.1	0.0	0.0	0.0	0.0
LAB*LABc	32.1	0.0	0.0	0.0	0.0
LAB*LABd	32.1	0.0	0.0	0.0	0.0
LAB*LABe	32.1	0.0	0.0	0.0	0.0
LAB*LABf	32.1	0.0	0.0	0.0	0.0
LAB*LABg	32.1	0.0	0.0	0.0	0.0
LAB*LABh	32.1	0.0	0.0	0.0	0.0
LAB*LABi	32.1	0.0	0.0	0.0	0.0
LAB*LABj	32.1	0.0	0.0	0.0	0.0
LAB*LABk	32.1	0.0	0.0	0.0	0.0
LAB*LABl	32.1	0.0	0.0	0.0	0.0
LAB*LABm	32.1	0.0	0.0	0.0	0.0
LAB*LABn	32.1	0.0	0.0	0.0	0.0
LAB*LABo	32.1	0.0	0.0	0.0	0.0
LAB*LABp	32.1	0.0	0.0	0.0	0.0
LAB*LABq	32.1	0.0	0.0	0.0	0.0
LAB*LABr	32.1	0.0	0.0	0.0	0.0
LAB*LABs	32.1	0.0	0.0	0.0	0.0
LAB*LABt	32.1	0.0	0.0	0.0	0.0
LAB*LABu	32.1	0.0	0.0	0.0	0.0
LAB*LABv	32.1	0.0	0.0	0.0	0.0
LAB*LABw	32.1	0.0	0.0	0.0	0.0
LAB*LABx	32.1	0.0	0.0	0.0	0.0
LAB*LABy	32.1	0.0	0.0	0.0	0.0
LAB*LABz	32.1	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	11.01	0.0	0.0	0.0	0.0
LAB*LABa	11.01	0.0	0.0	0.0	0.0
LAB*LABb	11.01	0.0	0.0	0.0	0.0
LAB*LABc	11.01	0.0	0.0	0.0	0.0
LAB*LABd	11.01	0.0	0.0	0.0	0.0
LAB*LABe	11.01	0.0	0.0	0.0	0.0
LAB*LABf	11.01	0.0	0.0	0.0	0.0
LAB*LABg	11.01	0.0	0.0	0.0	0.0
LAB*LABh	11.01	0.0	0.0	0.0	0.0
LAB*LABi	11.01	0.0	0.0	0.0	0.0
LAB*LABj	11.01	0.0	0.0	0.0	0.0
LAB*LABk	11.01	0.0	0.0	0.0	0.0
LAB*LABl	11.01	0.0	0.0	0.0	0.0
LAB*LABm	11.01	0.0	0.0	0.0	0.0
LAB*LABn	11.01	0.0	0.0	0.0	0.0
LAB*LABo	11.01	0.0	0.0	0.0	0.0
LAB*LABp	11.01	0.0	0.0	0.0	0.0
LAB*LABq	11.01	0.0	0.0	0.0	0.0
LAB*LABr	11.01	0.0	0.0	0.0	0.0
LAB*LABs	11.01	0.0	0.0	0.0	0.0
LAB*LABt	11.01	0.0	0.0	0.0	0.0
LAB*LABu	11.01	0.0	0.0	0.0	0.0
LAB*LABv	11.01	0.0	0.0	0.0	0.0
LAB*LABw	11.01	0.0	0.0	0.0	0.0
LAB*LABx	11.01	0.0	0.0	0.0	0.0
LAB*LABy	11.01	0.0	0.0	0.0	0.0
LAB*LABz	11.01	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

NRS11; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	53.2	0.0	0.0	0.0	0.0
LAB*LABa	53.2	0.0	0.0	0.0	0.0
LAB*LABb	53.2	0.0	0.0	0.0	0.0
LAB*LABc	53.2	0.0	0.0	0.0	0.0
LAB*LABd	53.2	0.0	0.0	0.0	0.0
LAB*LABe	53.2	0.0	0.0	0.0	0.0
LAB*LABf	53.2	0.0	0.0	0.0	0.0
LAB*LABg	53.2	0.0	0.0	0.0	0.0
LAB*LABh	53.2	0.0	0.0	0.0	0.0
LAB*LABi	53.2	0.0	0.0	0.0	0.0
LAB*LABj	53.2	0.0	0.0	0.0	0.0
LAB*LABk	53.2	0.0	0.0	0.0	0.0
LAB*LABl	53.2	0.0	0.0	0.0	0.0
LAB*LABm	53.2	0.0	0.0	0.0	0.0
LAB*LABn	53.2	0.0	0.0	0.0	0.0
LAB*LABo	53.2	0.0	0.0	0.0	0.0
LAB*LABp	53.2	0.0	0.0	0.0	0.0
LAB*LABq	53.2	0.0	0.0	0.0	0.0
LAB*LABr	53.2	0.0	0.0	0.0	0.0
LAB*LABs	53.2	0.0	0.0	0.0	0.0
LAB*LABt	53.2	0.0	0.0	0.0	0.0
LAB*LABu	53.2	0.0	0.0	0.0	0.0
LAB*LABv	53.2	0.0	0.0	0.0	0.0
LAB*LABw	53.2	0.0	0.0	0.0	0.0
LAB*LABx	53.2	0.0	0.0	0.0	0.0
LAB*LABy	53.2	0.0	0.0	0.0	0.0
LAB*LABz	53.2	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	<

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

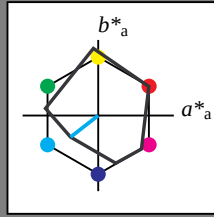
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

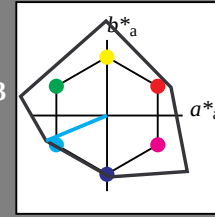
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$u^*_{rel} = 149$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

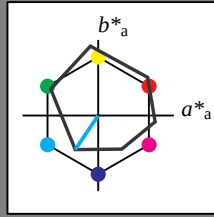
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

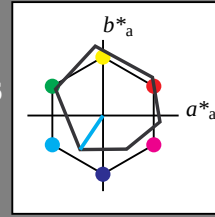
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

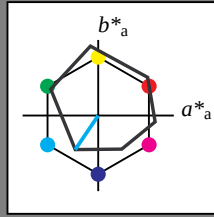
0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

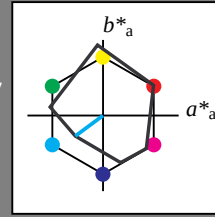
0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
CMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 217/360 = 0.601 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

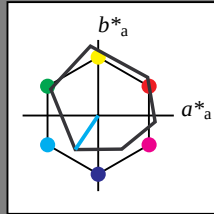
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

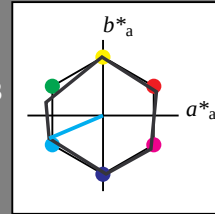
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

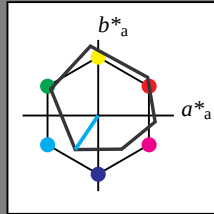
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

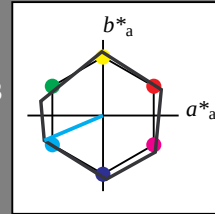
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

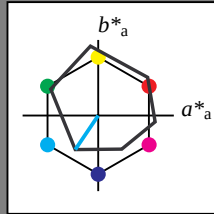
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

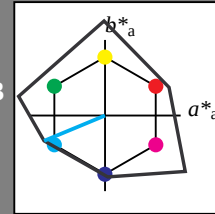
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

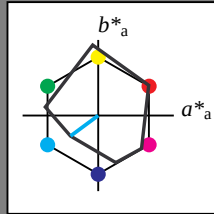
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18a; adapted (a)	CIE LAB data				
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

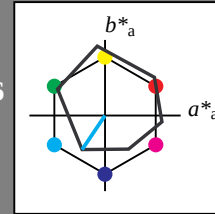
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a)	CIE LAB data				
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIE LAB hue 217/360 = 0.601 (left)

5 step scales for constant CIE LAB hue 236/360 = 0.656 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

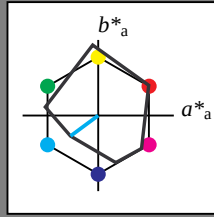
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 217/360 = 0.601 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

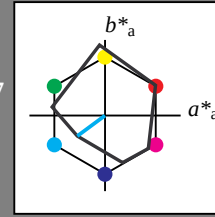
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 217/360 = 0.601 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

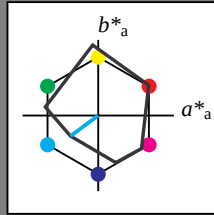
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 217/360 = 0.601 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

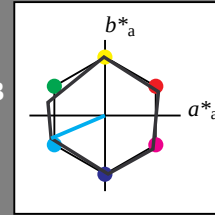
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

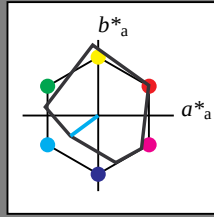
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 217/360 = 0.601 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

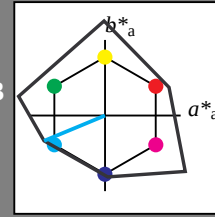
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

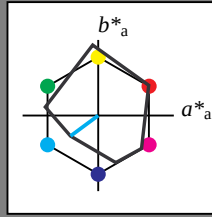
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

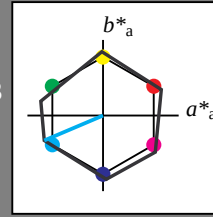
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

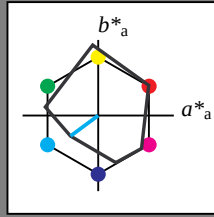
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

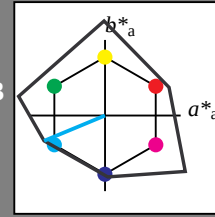
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 217/360 = 0.601 (left)

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

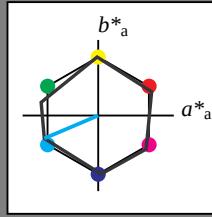
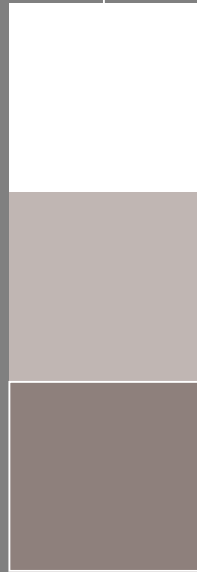
D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
cmyn4*	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	1.0	(0.75)	
cmyn4*	0.0	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
cmyn4*	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

0,25

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.25)	
cmyn4*	0.0	0.0	0.0	(0.75)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
cmyn4*	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

0,00

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
cmyn4*	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

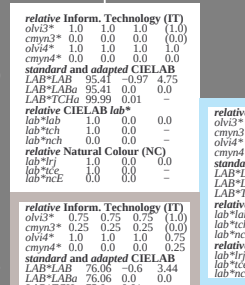
D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

1,00

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	1.0	(1.0)	
cmyn3*	0.25	0.0	0.0	(0.0)	
olvi4*	0.75	1.0	1.0	(1.0)	
cmyn4*	0.25	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	86.21	-0.38	-7.1		
LAB*LABa	86.21	-7.58	-11.24		
LAB*TCRa	87.5	13.57	236.01		
relative CIELAB lab*					
lab*lab	0.881	-0.139	-0.206		
lab*ch	0.875	0.25	0.656		
lab*nch	0.0	0.25	0.656		
cmyn4*	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.881	-0.139	-0.206		
lab*nce	0.0	0.25	0.656		

0,75

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.75	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	0.5	1.0	1.0	(0.75)	
cmyn4*	0.25	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	66.86	-0.01	-8.41		
LAB*LABa	66.86	-7.58	-11.25		
LAB*TCRa	62.5	13.58	236.01		
relative CIELAB lab*					
lab*lab	0.631	-0.139	-0.206		
lab*ch	0.625	0.25	0.656		
lab*nch	0.25	0.25	0.656		
cmyn4*	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.631	-0.139	-0.206		
lab*nce	0.25	0.25	0.656		

0,25

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.5	(1.0)	
cmyn3*	0.75	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(0.5)	
cmyn4*	0.25	0.0	0.0	(0.5)	
standard and adapted CIELAB					
LAB*LAB	47.51	-7.64	-9.72		
LAB*LABa	47.51	-7.58	-11.25		
LAB*TCRa	37.5	13.58	236.01		
relative CIELAB lab*					
lab*lab	0.381	-0.139	-0.206		
lab*ch	0.375	0.25	0.656		
lab*nch	0.5	0.25	0.656		
cmyn4*	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.381	-0.139	-0.206		
lab*nce	0.5	0.25	0.656		

0,00

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.25	(1.0)	
cmyn3*	1.0	0.75	0.75	(0.0)	
olvi4*	0.75	1.0	1.0	(0.25)	
cmyn4*	0.25	0.0	0.0	(0.75)	
standard and adapted CIELAB					
LAB*LAB	28.17	-7.27	-11.02		
LAB*LABa	28.17	-7.58	-11.24		
LAB*TCRa	12.5	13.57	236.01		
relative CIELAB lab*					
lab*lab	0.131	-0.139	-0.206		
lab*ch	0.125	0.25	0.656		
lab*nch	0.75	0.25	0.656		
cmyn4*	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.131	-0.139	-0.206		
lab*nce	0.75	0.25	0.656		

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	0.5	1.0	1.0	(1.0)	
cmyn3*	0.5	0.0	0.0	(0.0)	
olvi4*	0.5	1.0	1.0	(1.0)	
cmyn4*	0.5	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	77.01	-15.79	-18.98		
LAB*LABa	77.01	-15.16	-22.5		
LAB*TCRa	75.0	27.15	236.01		
relative CIELAB lab*					
lab*lab	0.762	-0.278	-0.413		
lab*ch	0.75	0.25	0.656		
lab*nch	0.0	0.25	0.656		
cmyn4*	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.762	-0.278	-0.413		
lab*nce	0.0	0.25	0.656		

0,75

relative Inform. Technology (IT)					
olvi3*	0.25	0.75	0.75	(1.0)	
cmyn3*	0.75	0.25	0.25	(0.0)	
olvi4*	0.25	1.0	1.0	(0.75)	
cmyn4*	0.25	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	57.66	-13.42	-20.29		
LAB*LABa	57.66	-15.17	-22.5		
LAB*TCRa	50.0	27.15	236.01		
relative CIELAB lab*					
lab*lab	0.512	-0.279	-0.414		
lab*ch	0.5	0.25	0.656		
lab*nch	0.25	0.25	0.656		
cmyn4*	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.512	-0.279	-0.414		
lab*nce	0.25	0.25	0.656		

0,25

||
||
||

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

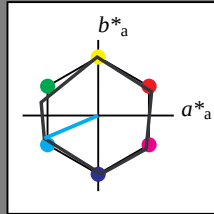
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

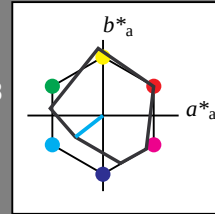
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

5 step scales for constant CIELAB hue 218/360 = 0.605 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

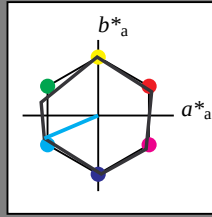
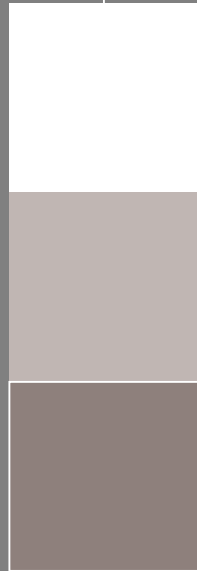
D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	1.0	(0.75)	
cmyn4*	0.0	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

0,25

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.25)	
cmyn4*	0.0	0.0	0.0	(0.75)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

0,00

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

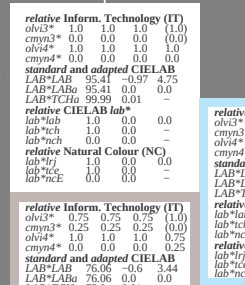
D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	1.0	(1.0)	
cmyn3*	0.25	0.0	0.0	(0.0)	
olvi4*	0.75	1.0	1.0	(1.0)	
cmyn4*	0.25	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	86.21	-0.38	-7.1		
LAB*LABa	86.21	-7.58	-11.24		
LAB*TCBa	87.5	13.57	236.01		
relative CIELAB lab*					
lab*lab	0.881	-0.139	-0.206		
lab*ch	0.875	0.25	0.656		
lab*nch	0.0	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.881	0.123	0.216		
lab*nce	0.875	0.25	0.667		

0,75

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.75	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	0.5	1.0	1.0	(0.75)	
cmyn4*	0.25	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	66.86	-0.01	-8.41		
LAB*LABa	66.86	-7.58	-11.25		
LAB*TCBa	62.5	13.58	236.01		
relative CIELAB lab*					
lab*lab	0.631	-0.139	-0.206		
lab*ch	0.625	0.25	0.656		
lab*nch	0.25	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.631	0.123	0.216		
lab*nce	0.625	0.25	0.667		

0,25

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.5	(1.0)	
cmyn3*	0.75	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(0.5)	
cmyn4*	0.25	0.0	0.0	(0.5)	
standard and adapted CIELAB					
LAB*LAB	47.51	-7.64	-9.72		
LAB*LABa	47.51	-7.58	-11.25		
LAB*TCBa	37.5	13.58	236.01		
relative CIELAB lab*					
lab*lab	0.381	-0.139	-0.206		
lab*ch	0.375	0.25	0.656		
lab*nch	0.5	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.381	0.123	0.216		
lab*nce	0.375	0.25	0.667		

0,00

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.25	(1.0)	
cmyn3*	1.0	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(0.0)	
cmyn4*	0.75	1.0	1.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	28.17	-7.27	-11.02		
LAB*LABa	28.17	-7.58	-11.24		
LAB*TCBa	12.5	13.57	236.01		
relative CIELAB lab*					
lab*lab	0.131	-0.139	-0.206		
lab*ch	0.125	0.25	0.656		
lab*nch	0.75	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.131	0.123	0.216		
lab*nce	0.125	0.25	0.667		

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	0.5	1.0	1.0	(1.0)	
cmyn3*	0.5	0.0	0.0	(0.0)	
olvi4*	0.5	1.0	1.0	(1.0)	
cmyn4*	0.5	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	77.01	-15.79	-18.98		
LAB*LABa	77.01	-15.16	-22.5		
LAB*TCBa	75.0	27.15	236.01		
relative CIELAB lab*					
lab*lab	0.762	-0.278	-0.413		
lab*ch	0.75	0.25	0.656		
lab*nch	0.0	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.762	-0.247	0.433		
lab*nce	0.75	0.25	0.667		

0,75

relative Inform. Technology (IT)					
olvi3*	0.25	0.75	0.75	(1.0)	
cmyn3*	0.75	0.25	0.25	(0.0)	
olvi4*	0.5	1.0	1.0	(0.75)	
cmyn4*	0.5	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	57.66	-13.42	-20.29		
LAB*LABa	57.66	-15.17	-22.5		
LAB*TCBa	50.0	27.15	236.01		
relative CIELAB lab*					
lab*lab	0.512	-0.279	-0.414		
lab*ch	0.5	0.25	0.656		
lab*nch	0.25	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.512	-0.247	0.433		
lab*nce	0.5	0.25	0.667		

0,25

cmyn3*	1.0	0.5	0.5
olvi4*	0.5	1.0	1.0
cmyn4*	0.5	0.0	0.0
standard and adapted CIELAB			
LAB*LAB	38.32	-15.05	-21.59
LAB*LABa	38.32	-15.16	-22.5
LAB*TCBa	25.01	27.15	236.01
relative CIELAB lab*			
lab*lab	0.262	-0.278	-0.41
lab*tch	0.25	0.5	0.5
lab*nch	0.5	0.5	0.5
relative Natural Colour (NC)			
lab*nr	0.262	-0.247	-0.41
lab*tce	0.25	0.5	0.5
lab*nce	0.5	0.5	0.5

$n^* = 0,50$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

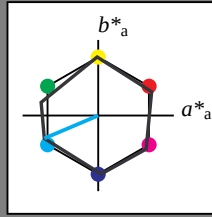
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

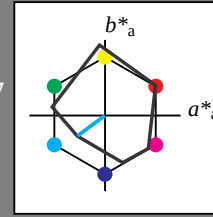
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 217/360 = 0.601 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

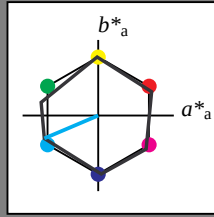
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

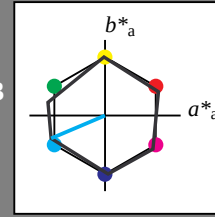
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

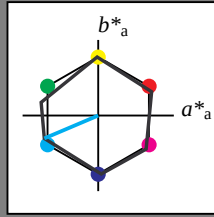
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

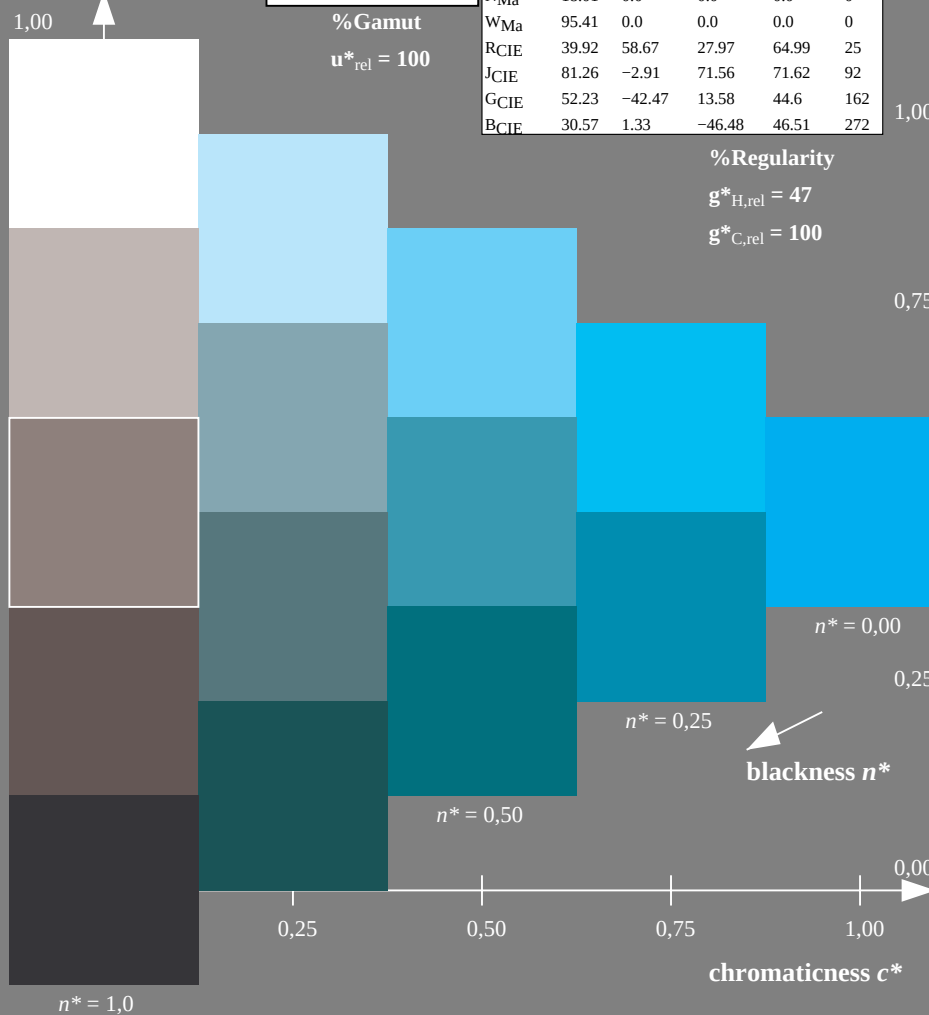


NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

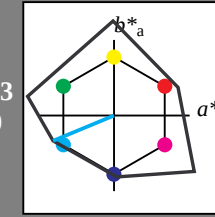
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

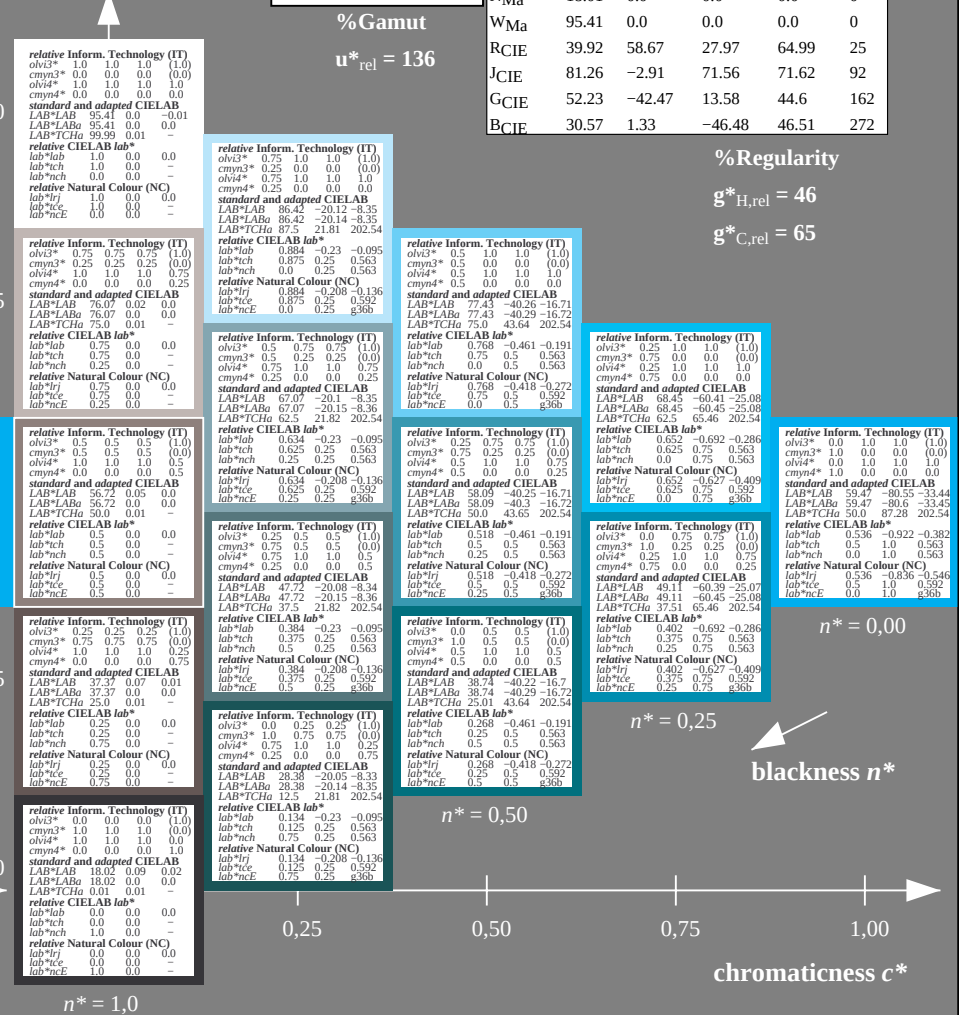


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

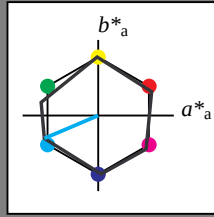
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

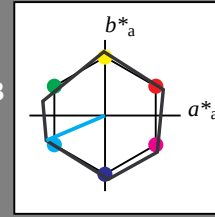
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Matchless C

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

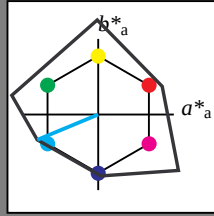
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

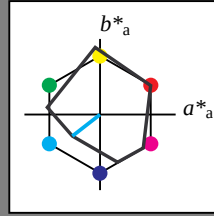
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

5 step scales for constant CIELAB hue 218/360 = 0.605 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

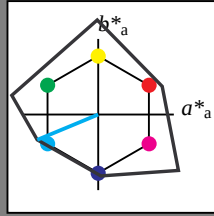
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

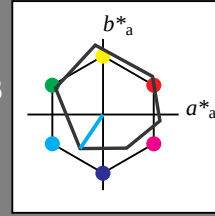
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	1.0	(0.75)	
cmyn4*	0.25	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(0.5)	
cmyn4*	0.0	0.0	0.0	(0.5)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	0.75	1.0	1.0	(0.25)	
cmyn4*	0.25	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCRa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.5	(1.0)	
cmyn3*	0.75	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(0.5)	
cmyn4*	0.25	0.0	0.0	(0.5)	
standard and adapted CIELAB					
LAB*LAB	47.51	-0.64	-0.72		
LAB*LABa	47.51	-0.64	-0.72		
LAB*TCRa	37.5	13.58	236.01		
relative CIELAB lab*					
lab*lab	0.381	-0.139	-0.206		
lab*nch	0.375	0.25	0.656		
olvi4*	0.5	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.381	-0.139	-0.206		
lab*nce	0.375	0.25	0.656		

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.25	(1.0)	
cmyn3*	1.0	0.75	0.75	(0.0)	
olvi4*	0.75	1.0	1.0	(0.25)	
cmyn4*	0.25	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	28.17	-7.27	-11.02		
LAB*LABa	28.17	-7.27	-11.02		
LAB*TCRa	12.5	15.57	236.01		
relative CIELAB lab*					
lab*lab	0.131	-0.139	-0.206		
lab*nch	0.125	0.25	0.656		
olvi4*	0.75	0.25	0.656		
relative Natural Colour (NC)					
lab*trj	0.131	-0.139	-0.206		
lab*nce	0.125	0.25	0.656		

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.25	(1.0)	
cmyn3*	1.0	0.75	0.75	(0.0)	
olvi4*	0.75	1.0	1.0	(0.25)	
cmyn4*	0.25	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	28.17	-7.27	-11.02		
LAB*LABa	28.17	-7.27	-11.02		
LAB*TCRa	12.5	15.57	236.01		
relative CIELAB lab*					
lab*lab	0.262	-0.278	-0.413		
lab*nch	0.25	0.5	0.656		
olvi4*	0.5	0.5	0.656		
relative Natural Colour (NC)					
lab*trj	0.262	-0.278	-0.413		
lab*nce	0.25	0.5	0.656		

relative Inform. Technology (IT)					
olvi3*	0.0	0.5	0.5	(1.0)	
cmyn3*	1.0	0.5	0.5	(0.0)	
olvi4*	0.75	1.0	1.0	(0.5)	
cmyn4*	0.5	0.0	0.0	(0.5)	
standard and adapted CIELAB					
LAB*LAB	38.32	-15.05	-21.59		
LAB*LABa	38.32	-15.16	-22.5		
LAB*TCRa	25.01	27.15	236.01		
relative CIELAB lab*					
lab*lab	0.394	-0.418	-0.621		
lab*nch	0.375	0.75	0.656		
olvi4*	0.5	0.75	0.656		
relative Natural Colour (NC)					
lab*trj	0.394	-0.418	-0.621		
lab*nce	0.375	0.75	0.656		

relative Inform. Technology (IT)					
olvi3*	0.0	0.75	0.75	(1.0)	
cmyn3*	1.0	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	1.0	(0.75)	
cmyn4*	0.75	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	58.62	-30.34	-45.01		
LAB*LABa	58.62	-30.34	-45.01		
LAB*TCRa	50.0	40.72	236.01		
relative CIELAB lab*					
lab*lab	0.643	-0.418	-0.621		
lab*nch	0.625	0.75	0.656		
olvi4*	0.75	0.75	0.656		
relative Natural Colour (NC)					
lab*trj	0.643	-0.418	-0.621		
lab*nce	0.625	0.75	0.656		

relative Inform. Technology (IT)					
olvi3*	0.25	1.0	1.0	(1.0)	
cmyn3*	0.75	0.0	0.0	(0.0)	
olvi4*	0.25	1.0	1.0	(0.25)	
cmyn4*	0.75	0.0	0.0	(0.75)	
standard and adapted CIELAB					
LAB*LAB	58.62	-30.34	-45.01		
LAB*LABa	58.62	-30.34	-45.01		
LAB*TCRa	50.0	40.72	236.01		
relative CIELAB lab*					
lab*lab	0.643	-0.418	-0.621		
lab*nch	0.625	0.75	0.656		
olvi4*	0.25	1.0	1.0	(0.25)	
relative Natural Colour (NC)					
lab*trj	0.643	-0.418	-0.621		
lab*nce	0.625	0.75	0.656		

relative Inform. Technology (IT)					
olvi3*	0.0	0.75	0.75	(1.0)	
cmyn3*	1.0	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	1.0	(0.75)	
cmyn4*	0.75	0.0	0.0	(0.25)	
standard and adapted CIELAB					
LAB*LAB	58.62	-30.34	-45.01		
LAB*LABa	58.6				

Matchless C

5 step scales for constant CIELAB hue 217/360 = 0.601 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

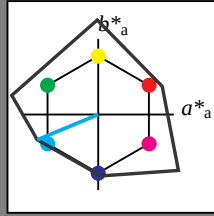
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

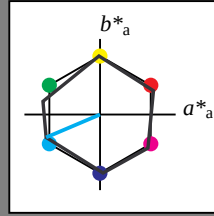
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

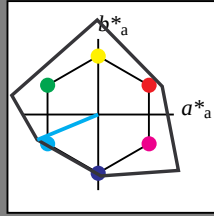
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

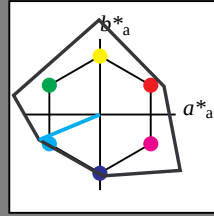
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

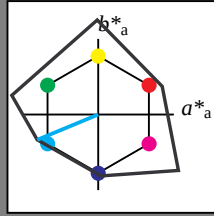
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

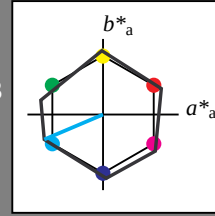
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 0,50$

$n^* = 0,25$

blackness n^*

$n^* = 0,00$

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

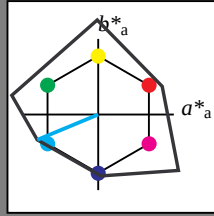
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.28	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

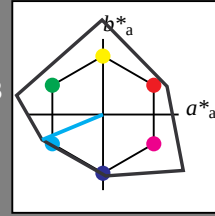
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

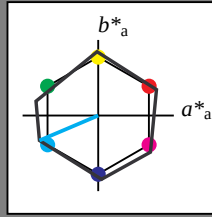
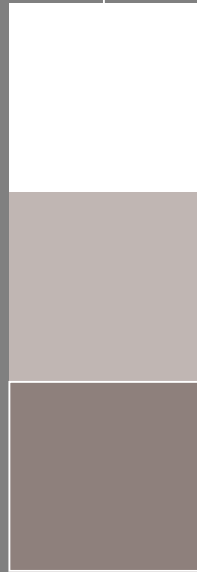
D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
cmyn4*	0.0	0.0	0.0	0.25	
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
cmyn4*	0.25	0.0	0.0	0.25	
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

0,25

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCRa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
cmyn4*	0.75	0.0	0.0	0.25	
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		

0,00

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
cmyn4*	1.0	0.0	0.0	0.0	
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

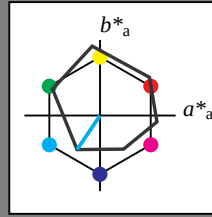
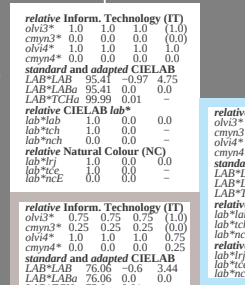
D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	1.0	(1.0)	
cmyn3*	0.25	0.0	0.0	(0.0)	
olvi4*	0.75	1.0	1.0	0.75	
cmyn4*	0.25	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	86.21	-0.38	-7.1		
LAB*LABa	86.21	-7.58	-11.24		
LAB*TCRa	87.5	13.57	236.01		
relative CIELAB lab*					
lab*lab	0.881	-0.139	-0.206		
lab*ch	0.875	0.25	0.656		
lab*nch	0.0	0.25	0.656		
cmyn4*	0.25	0.0	0.0	0.25	
relative Natural Colour (NC)					
lab*trj	0.881	0.123	-0.216		
lab*nce	0.875	0.25	0.667		
lab*nce	0.0	0.25	0.666		

0,25

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.5	(1.0)	
cmyn3*	0.75	0.25	0.25	(0.0)	
olvi4*	0.5	1.0	1.0	0.75	
cmyn4*	0.5	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	57.66	-13.42	-30.29		
LAB*LABa	57.66	-15.17	-22.5		
LAB*TCRa	50.0	27.15	236.01		
relative CIELAB lab*					
lab*lab	0.512	-0.279	-0.414		
lab*ch	0.5	0.5	0.656		
lab*nch	0.25	0.5	0.656		
cmyn4*	0.5	0.0	0.0	0.25	
relative Natural Colour (NC)					
lab*trj	0.512	-0.247	-0.433		
lab*nce	0.5	0.5	0.667		
lab*nce	0.25	0.5	0.666		

0,00

relative Inform. Technology (IT)					
olvi3*	0.0	0.5	0.5	(1.0)	
cmyn3*	1.0	0.25	0.25	(0.0)	
olvi4*	0.5	1.0	1.0	0.5	
cmyn4*	0.5	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	38.32	-15.05	-21.59		
LAB*LABa	38.32	-15.16	-22.5		
LAB*TCRa	12.5	15.57	236.01		
relative CIELAB lab*					
lab*lab	0.262	-0.278	-0.413		
lab*ch	0.25	0.5	0.656		
lab*nch	0.5	0.5	0.656		
cmyn4*	0.5	0.0	0.0	0.5	
relative Natural Colour (NC)					
lab*trj	0.262	-0.247	-0.433		
lab*nce	0.25	0.5	0.667		
lab*nce	0.5	0.5	0.666		

0,75

relative Inform. Technology (IT)					
olvi3*	0.25	1.0	1.0	(1.0)	
cmyn3*	0.75	0.0	0.0	(0.0)	
olvi4*	0.25	1.0	1.0	0.75	
cmyn4*	0.75	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	67.81	-23.21	-38.86		
LAB*LABa	67.81	-22.75	-33.75		
LAB*TCRa	62.5	40.72	236.01		
relative CIELAB lab*					
lab*lab	0.643	-0.418	-0.621		
lab*ch	0.625	0.75	0.656		
lab*nch	0.0	0.75	0.656		
cmyn4*	0.75	0.0	0.0	0.25	
relative Natural Colour (NC)					
lab*trj	0.643	-0.371	-0.65		
lab*nce	0.625	0.75	0.667		
lab*nce	0.0	0.75	0.666		

0,25

0.25	0.75	0.656
Natural Colour (NC)		
0.394	-0.271	-0.65
0.375	0.72	0.967
0.25	0.75	0.606

$n^* = 0.25$

blackness n^*

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

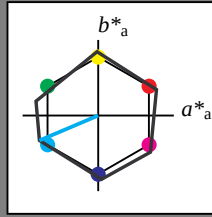
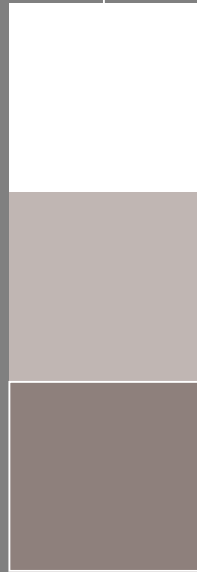
D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCRa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 236/360 = 0.656$

lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness

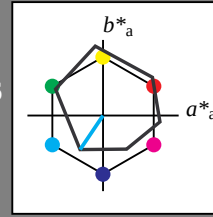
1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	86.21	-0.38	-7.1		
LAB*LABa	86.21	-7.58	-11.24		
LAB*TCRa	87.5	13.57	236.01		
relative CIELAB lab*					
lab*lab	0.881	-0.139	-0.206		
lab*lab	0.875	0.25	0.656		
lab*nch	0.0	0.25	0.656		
relative Natural Colour (NC)					
lab*lab	0.881	-0.139	-0.206		
lab*lab	0.875	0.25	0.656		
lab*nch	0.0	0.25	0.656		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	66.86	-0.01	-8.41		
LAB*LABa	66.86	-7.58	-11.25		
LAB*TCRa	62.5	13.58	236.01		
relative CIELAB lab*					
lab*lab	0.631	-0.139	-0.206		
lab*lab	0.625	0.25	0.656		
lab*nch	0.25	0.25	0.656		
relative Natural Colour (NC)					
lab*lab	0.631	-0.139	-0.206		
lab*lab	0.625	0.25	0.656		
lab*nch	0.25	0.25	0.656		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	57.66	-13.42	-20.29		
LAB*LABa	57.66	-15.17	-22.5		
LAB*TCRa	50.0	27.15	236.01		
relative CIELAB lab*					
lab*lab	0.512	-0.279	-0.414		
lab*lab	0.5	0.5	0.656		
lab*nch	0.25	0.5	0.656		
relative Natural Colour (NC)					
lab*lab	0.512	-0.279	-0.414		
lab*lab	0.5	0.5	0.656		
lab*nch	0.25	0.5	0.656		
relative Inform. Technology (IT)					
olvi3*	0.0	0.5	0.5	(1.0)	
cmyn3*	1.0	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.5	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	38.32	-15.05	-21.59		
LAB*LABa	38.32	-15.16	-22.5		
LAB*TCRa	12.5	13.57	236.01		
relative CIELAB lab*					
lab*lab	0.131	-0.139	-0.206		
lab*lab	0.125	0.25	0.656		
lab*nch	0.75	0.25	0.656		
relative Natural Colour (NC)					
lab*lab	0.131	-0.139	-0.206		
lab*lab	0.125	0.25	0.656		
lab*nch	0.75	0.25	0.656		

$n^* = 1,0$

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271



% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	1.0	(1.0)	
cmyn3*	0.5	0.0	0.0	(0.0)	
olvi4*	0.75	1.0	1.0	(1.0)	
cmyn4*	0.5	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*ABa	77.01	-15.73	-18.98		
LAB*ABa	77.01	-15.16	-22.5		
LAB*CbHa	75.01	27.15	236.01		
relative CIE LAB lab*					
lab*lab	0.762	-0.278	-0.413		
lab*cb	0.75	0.5	0.656		
lab*nc	0.75	0.5	0.656		
relative Natural Colour (NC)					
lab*lab	0.762	-0.247	-0.433		
lab*cb	0.75	0.5	0.667		
lab*nc	0.75	0.5	0.666		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.75	0.25	0.25	(0.0)	
olvi4*	0.5	1.0	1.0	(1.0)	
cmyn4*	0.5	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*ABa	57.66	-15.42	-20.29		
LAB*ABa	57.66	-15.17	-22.5		
LAB*CbHa	50.00	27.15	236.01		
relative CIE LAB lab*					
lab*lab	0.512	-0.279	-0.414		
lab*cb	0.5	0.5	0.656		
lab*nc	0.5	0.5	0.656		
relative Natural Colour (NC)					
lab*lab	0.512	-0.247	-0.433		
lab*cb	0.5	0.5	0.667		
lab*nc	0.5	0.5	0.666		
relative Inform. Technology (IT)					
olvi3*	0.0	0.5	0.5	(1.0)	
cmyn3*	1.0	0.5	0.5	(0.0)	
olvi4*	0.5	1.0	1.0	(1.0)	
cmyn4*	0.5	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*ABa	38.32	-15.05	-21.59		
LAB*ABa	38.32	-15.16	-22.5		
LAB*CbHa	25.01	27.15	236.01		
relative CIE LAB lab*					
lab*lab	0.262	-0.278	-0.413		
lab*cb	0.25	0.5	0.656		
lab*nc	0.25	0.5	0.656		
relative Natural Colour (NC)					
lab*lab	0.262	-0.247	-0.433		
lab*cb	0.25	0.5	0.667		
lab*nc	0.25	0.5	0.666		

n* = 0,50

0,50

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

D65: hue G50B

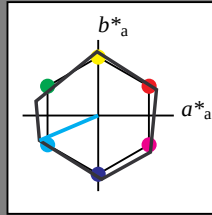
LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

lab^*tch and lab^*nch

D65: hue G50B

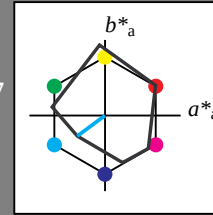
LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.05	0.0		
LAB*LABa	56.71	0.05	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01		
LAB*LABa	37.36	0.07	0.01		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.1	0.02		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 217/360 = 0.601 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	1.0	(1.0)	
cmyn3*	0.25	0.0	0.0	(0.0)	
olvi4*	0.75	1.0	1.0	(1.0)	
cmyn4*	0.25	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	82.81	-9.13	-6.77		
LAB*LABa	82.81	-9.13	-6.77		
LAB*TCBa	87.5	11.4	216.52		
relative CIELAB lab*					
lab*lab	0.837	-0.2	-0.148		
lab*ch	0.875	0.25	0.601		
lab*nch	0.0	0.25	0.601		
relative Natural Colour (NC)					
lab*trj	0.837	-0.177	-0.175		
lab*nce	0.875	0.25	0.624		
lab*nce	0.0	0.25	0.624		

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.75	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.25	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	63.46	-9.11	-6.76		
LAB*LABa	63.46	-9.11	-6.76		
LAB*TCBa	62.5	11.4	216.52		
relative CIELAB lab*					
lab*lab	0.587	-0.2	-0.148		
lab*ch	0.625	0.25	0.601		
lab*nch	0.25	0.25	0.601		
relative Natural Colour (NC)					
lab*trj	0.587	-0.177	-0.175		
lab*nce	0.625	0.25	0.624		
lab*nce	0.25	0.25	0.624		

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.5	(1.0)	
cmyn3*	0.75	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.25	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	50.87	-18.35	-13.54		
LAB*LABa	50.87	-18.35	-13.54		
LAB*TCBa	50.0	22.8	216.52		
relative CIELAB lab*					
lab*lab	0.425	-0.401	-0.297		
lab*ch	0.425	0.5	0.601		
lab*nch	0.25	0.5	0.601		
relative Natural Colour (NC)					
lab*trj	0.425	-0.355	-0.35		
lab*nce	0.425	0.5	0.624		
lab*nce	0.25	0.5	0.624		

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.25	(1.0)	
cmyn3*	1.0	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.5	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	31.52	-18.31	-13.56		
LAB*LABa	31.52	-18.31	-13.56		
LAB*TCBa	25.01	22.8	216.52		
relative CIELAB lab*					
lab*lab	0.175	-0.401	-0.296		
lab*ch	0.25	0.5	0.601		
lab*nch	0.5	0.5	0.601		
relative Natural Colour (NC)					
lab*trj	0.175	-0.355	-0.35		
lab*nce	0.25	0.5	0.624		
lab*nce	0.5	0.5	0.624		

relative CIELAB lab*			
lab*Lab	24.77	9.15	0.67
lab*aCh	12.5	11.4	216.52
lab*bch	0.087	-0.2	-0.148
lab*ach	0.125	0.25	0.601
lab*nch	0.75	0.25	0.601
relative Natural Colour (NC)			
lab*lrj	0.087	-0.177	-0.175
lab*tce	0.125	0.25	0.624
lab*nCe	0.75	0.25	g49b

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

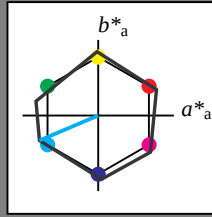
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

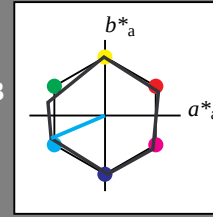
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

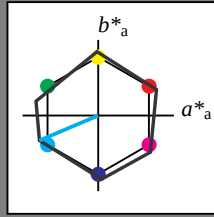
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

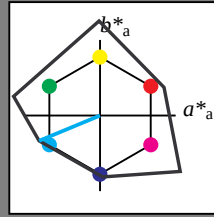
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

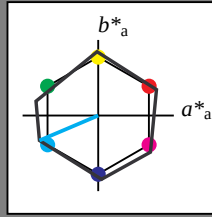
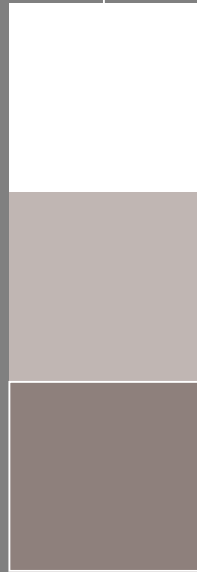
D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

1,00

	LAB*TC _{Ma}	99.99	0.01	-	
	relative CIELAB lab*				
	lab*lab	1.0	0.0	0.0	
	lab*ch	1.0	0.0	-	
	lab*nch	0.0	0.0	-	
	relative Natural Colour (NC)				
	lab*trj	1.0	0.0	0.0	
	lab*nce	0.0	0.0	-	
	lab*nCE	0.0	0.0	-	
0,75	relative inform. Technology (IT)				
	olvi3*	0.75	0.75	0.75	(1.0)
	cmyn3*	0.25	0.25	0.25	(0.0)
	olvi4*	1.0	1.0	1.0	(1.0)
	cmyn4*	0.0	0.0	0.0	(0.0)
	standard and adapted CIELAB				
	LAB*LAB	74.31	0.0	0.0	
	LAB*LABa	74.31	0.0	0.0	
	LAB*TC _{Ma}	75.0	0.01	-	
	relative CIELAB lab*				
	lab*lab	0.75	0.0	0.0	
	lab*ch	0.75	0.0	-	
	lab*nch	0.25	0.0	-	
	relative Natural Colour (NC)				
	lab*trj	0.75	0.0	0.0	
	lab*nce	0.25	0.0	-	
	lab*nCE	0.25	0.0	-	
00	relative inform. Technology (IT)				
	olvi3*	0.5	0.5	0.5	(1.0)
	cmyn3*	0.5	0.5	0.5	(0.0)
	olvi4*	1.0	1.0	1.0	(1.0)
	cmyn4*	0.0	0.0	0.0	(0.0)
	standard and adapted CIELAB				
	LAB*LAB	53.21	0.0	0.0	
	LAB*LABa	53.21	0.0	0.0	
	LAB*TC _{Ma}	50.0	0.01	-	
	relative CIELAB lab*				
	lab*lab	0.5	0.0	0.0	
	lab*ch	0.5	0.0	-	
	lab*nch	0.5	0.0	-	
	relative Natural Colour (NC)				
	lab*trj	0.5	0.0	0.0	
	lab*nce	0.5	0.0	-	
	lab*nCE	0.5	0.0	-	
0,25	relative inform. Technology (IT)				
	olvi3*	0.25	0.25	0.25	(1.0)
	cmyn3*	0.75	0.75	0.75	(0.0)
	olvi4*	1.0	1.0	1.0	(1.0)
	cmyn4*	0.0	0.0	0.0	(0.0)
	standard and adapted CIELAB				
	LAB*LAB	32.11	0.0	0.0	
	LAB*LABa	32.11	0.0	0.0	
	LAB*TC _{Ma}	25.0	0.01	-	
	relative CIELAB lab*				
	lab*lab	0.25	0.0	0.0	
	lab*ch	0.25	0.0	-	
	lab*nch	0.75	0.0	-	
	relative Natural Colour (NC)				
	lab*trj	0.25	0.0	0.0	
	lab*nce	0.75	0.0	-	
	lab*nCE	0.75	0.0	-	
*	relative inform. Technology (IT)				
	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	1.0	1.0	1.0	(0.0)
	olvi4*	1.0	1.0	1.0	(1.0)
	cmyn4*	0.0	0.0	0.0	(0.0)
	standard and adapted CIELAB				
	LAB*LAB	11.01	0.0	0.0	
	LAB*LABa	11.01	0.0	0.0	
	LAB*TC _{Ma}	0.01	0.01	-	
	relative CIELAB lab*				
	lab*lab	0.0	0.0	0.0	
	lab*ch	0.0	0.0	0.0	
	lab*nch	1.0	0.0	-	
	relative Natural Colour (NC)				
	lab*trj	0.0	0.0	0.0	
	lab*nce	1.0	0.0	-	
	lab*nCE	1.0	0.0	-	
0,00	relative inform. Technology (IT)				
	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	1.0	1.0	1.0	(0.0)
	olvi4*	1.0	1.0	1.0	(1.0)
	cmyn4*	0.0	0.0	0.0	(0.0)
	standard and adapted CIELAB				
	LAB*LAB	0.01	0.01	0.01	
	LAB*LABa	0.01	0.01	0.01	
	LAB*TC _{Ma}	0.01	0.01	-	
	relative CIELAB lab*				
	lab*lab	0.0	0.0	0.0	
	lab*ch	0.0	0.0	0.0	
	lab*nch	1.0	0.0	-	
	relative Natural Colour (NC)				
	lab*trj	0.0	0.0	0.0	
	lab*nce	1.0	0.0	-	
	lab*nCE	1.0	0.0	-	
c*					

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

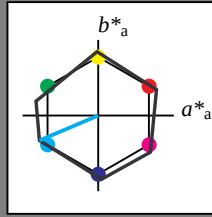
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

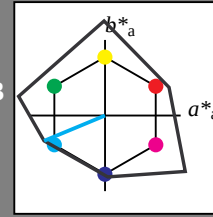
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0	0.0	0.0
lab*nch	0.0	0.0	1.0	0.0	0.0
lab*tce	0.0	0.0	0.0	1.0	0.0
lab*nce	0.0	0.0	0.0	0.0	1.0

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	74.31	0.0	0.0	0.0	0.0
lab*tch	74.31	0.0	0.0	0.0	0.0
lab*nch	74.31	0.0	0.0	0.0	0.0
lab*tce	74.31	0.0	0.0	0.0	0.0
lab*nce	74.31	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*tch	0.0	0.75	0.0	0.0	0.0
lab*nch	0.0	0.0	0.75	0.0	0.0
lab*tce	0.0	0.0	0.0	0.75	0.0
lab*nce	0.0	0.0	0.0	0.0	0.75

relative Natural Colour (NC)					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*tch	0.0	0.75	0.0	0.0	0.0
lab*nch	0.0	0.0	0.75	0.0	0.0
lab*tce	0.0	0.0	0.0	0.75	0.0
lab*nce	0.0	0.0	0.0	0.0	0.75

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*tch	0.0	0.5	0.0	0.0	0.0
lab*nch	0.0	0.0	0.5	0.0	0.0
lab*tce	0.0	0.0	0.0	0.5	0.0
lab*nce	0.0	0.0	0.0	0.0	0.5

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	53.21	0.0	0.0	0.0	0.0
lab*tch	53.21	0.0	0.0	0.0	0.0
lab*nch	53.21	0.0	0.0	0.0	0.0
lab*tce	53.21	0.0	0.0	0.0	0.0
lab*nce	53.21	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.0	0.25	0.0	0.0	0.0
lab*nch	0.0	0.0	0.25	0.0	0.0
lab*tce	0.0	0.0	0.0	0.25	0.0
lab*nce	0.0	0.0	0.0	0.0	0.25

relative Natural Colour (NC)					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.0	0.25	0.0	0.0	0.0
lab*nch	0.0	0.0	0.25	0.0	0.0
lab*tce	0.0	0.0	0.0	0.25	0.0
lab*nce	0.0	0.0	0.0	0.0	0.25

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	23.11	0.0	0.0	0.0	0.0
lab*tch	23.11	0.0	0.0	0.0	0.0
lab*nch	23.11	0.0	0.0	0.0	0.0
lab*tce	23.11	0.0	0.0	0.0	0.0
lab*nce	23.11	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*tch	0.0	0.5	0.0	0.0	0.0
lab*nch	0.0	0.0	0.5	0.0	0.0
lab*tce	0.0	0.0	0.0	0.5	0.0
lab*nce	0.0	0.0	0.0	0.0	0.5

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	77.43	0.0	0.0	0.0	0.0
lab*tch	77.43	0.0	0.0	0.0	0.0
lab*nch	77.43	0.0	0.0	0.0	0.0
lab*tce	77.43	0.0	0.0	0.0	0.0
lab*nce	77.43	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.0	0.25	0.0	0.0	0.0
lab*nch	0.0	0.0	0.25	0.0	0.0
lab*tce	0.0	0.0	0.0	0.25	0.0
lab*nce	0.0	0.0	0.0	0.0	0.25

relative Natural Colour (NC)					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.0	0.25	0.0	0.0	0.0
lab*nch	0.0	0.0	0.25	0.0	0.0
lab*tce	0.0	0.0	0.0	0.25	0.0
lab*nce	0.0	0.0	0.0	0.0	0.25

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*TCha	LAB^*TChb
lab*lab	47.15	0.0	0.0	0.0	0.0
lab*tch	47.15	0.0	0.0	0.0	0.0
lab*nch	47.15	0.0	0.0	0.0	0.0
lab*tce	47.15	0.0	0.0	0.0	0.0
lab*nce	47.15	0.0	0.0	0.0	0.0

relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch	lab^*tce	lab^*nce
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

$n^* = 0,00$

blackness n^*

chromaticness c^*

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

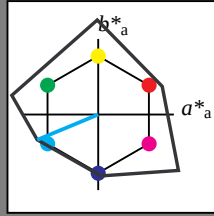
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

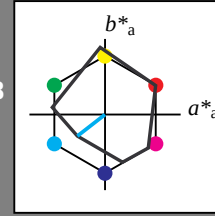
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 218/360 = 0.605 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

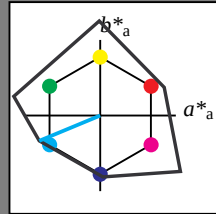
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

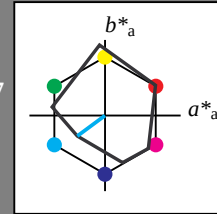
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

5 step scales for constant CIELAB hue 217/360 = 0.601 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

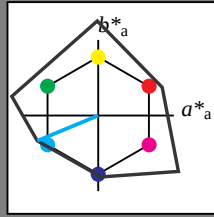
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 203/360 = 0.564$

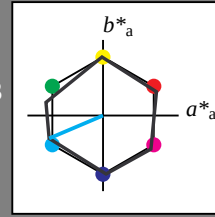
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

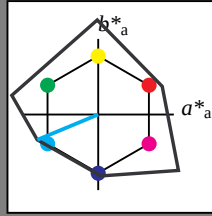
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

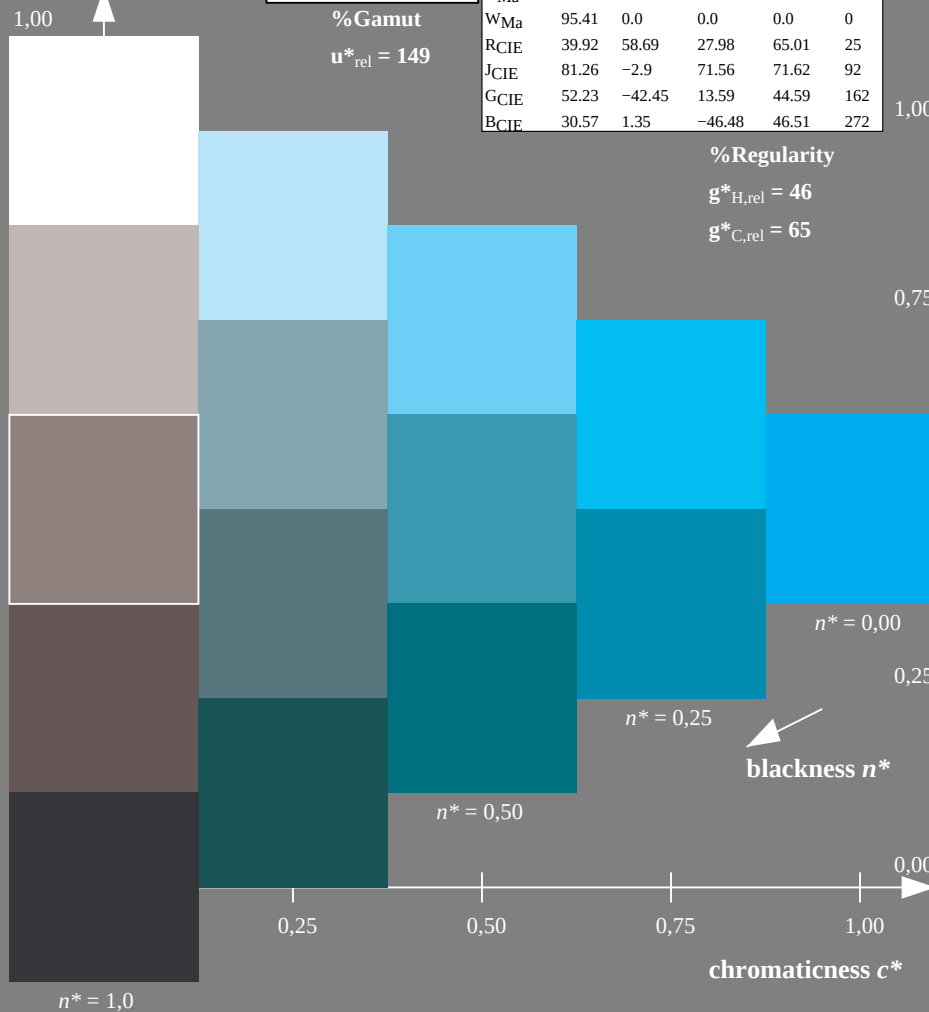


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.29	203
B _{Ma}	49.01	3.65	-81.19	81.29	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 203/360 = 0.563$

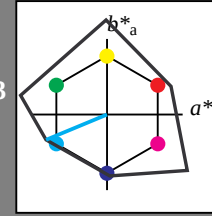
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

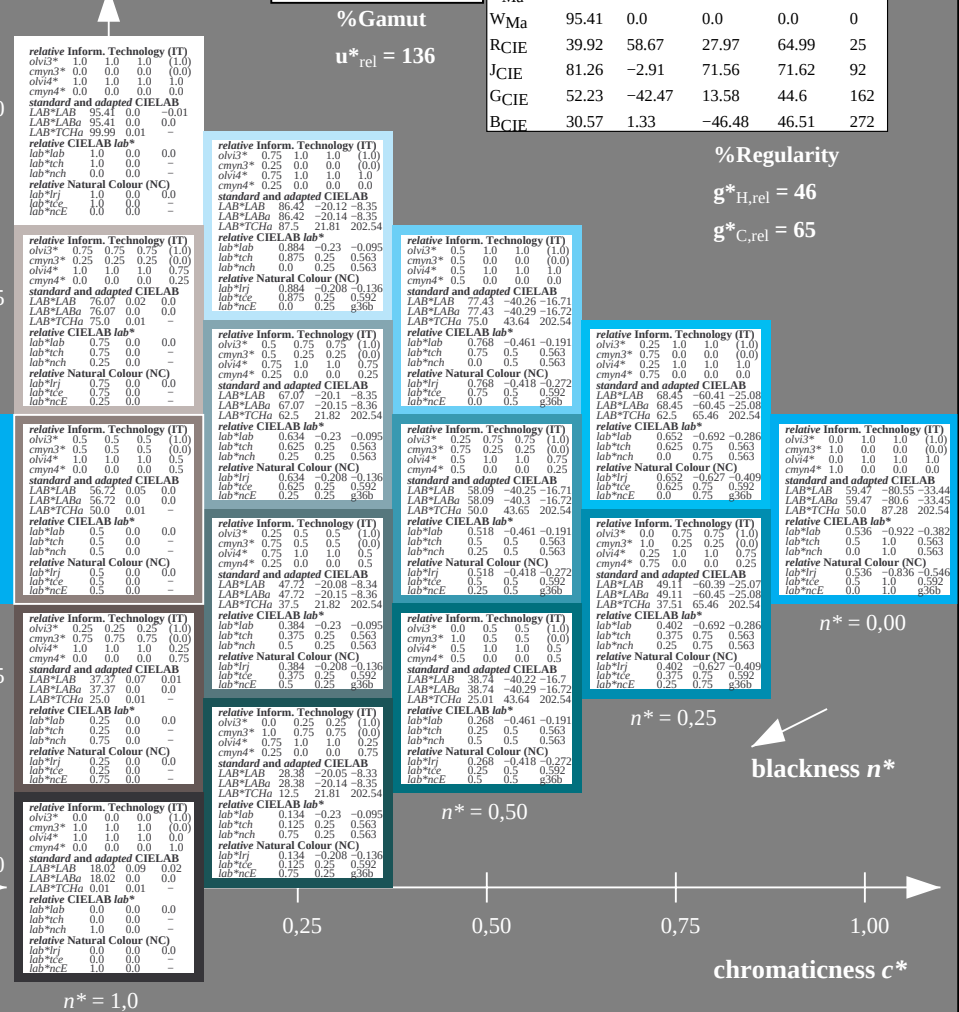


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

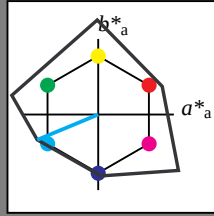
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 203/360 = 0.563 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

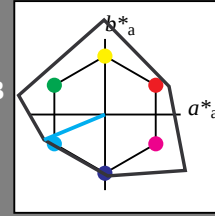
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 203/360 = 0.563 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

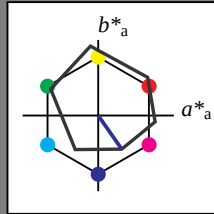
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

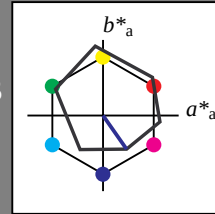
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

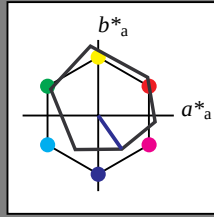
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

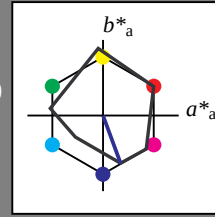
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	61.37	-0.47	-13.29		
LAB*LABa	61.37	0.0	0.0		
LAB*TCHa	62.5	16.8	290.19		
relative CIELAB lab*					
lab*lab	0.56	0.086	-0.234		
lab*ch	0.625	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.56	0.086	-0.241		
lab*nce	0.625	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	0.75	0.75	1.0	0.5	
cmyn4*	0.25	0.25	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	46.68	11.55	-30.05		
LAB*LABa	46.68	11.59	-31.52		
LAB*TCHa	50.0	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.37	0.173	-0.468		
lab*ch	0.375	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.37	0.129	-0.482		
lab*nce	0.375	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.25	(1.0)	
cmyn3*	1.0	1.0	0.75	(0.0)	
olvi4*	0.75	0.75	1.0	0.5	
cmyn4*	0.25	0.25	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	27.34	11.92	-31.35		
LAB*LABa	27.34	11.59	-31.51		
LAB*TCHa	25.01	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.12	0.173	-0.468		
lab*ch	0.125	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.12	0.129	-0.482		
lab*nce	0.125	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	0.5	0.5	1.0	0.5	
cmyn4*	0.5	0.5	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	32.0	17.62	-46.8		
LAB*LABa	32.0	17.39	-47.28		
LAB*TCHa	37.51	50.38	290.19		
relative CIELAB lab*					
lab*lab	0.181	0.259	-0.703		
lab*ch	0.375	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.181	0.193	-0.724		
lab*nce	0.375	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.25	(1.0)	
cmyn3*	1.0	1.0	0.75	(0.0)	
olvi4*	0.75	0.75	1.0	0.5	
cmyn4*	0.25	0.25	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	22.67	6.21	-15.9		
LAB*LABa	22.67	5.79	-15.75		
LAB*TCHa	12.5	16.79	290.19		
relative CIELAB lab*					
lab*lab	0.06	0.086	-0.234		
lab*ch	0.125	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.06	0.084	-0.24		
lab*nce	0.125	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	0.5	0.5	1.0	0.5	
cmyn4*	0.5	0.5	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	27.34	11.92	-31.35		
LAB*LABa	27.34	11.59	-31.51		
LAB*TCHa	25.01	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.12	0.173	-0.468		
lab*ch	0.125	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.12	0.129	-0.482		
lab*nce	0.125	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.25	(1.0)	
cmyn3*	1.0	1.0	0.75	(0.0)	
olvi4*	0.75	0.75	1.0	0.5	
cmyn4*	0.25	0.25	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	22.67	6.21	-15.9		
LAB*LABa	22.67	5.79	-15.75		
LAB*TCHa	12.5	16.79	290.19		
relative CIELAB lab*					
lab*lab	0.06	0.086	-0.234		
lab*ch	0.125	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.06	0.084	-0.24		
lab*nce	0.125	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	0.5	0.5	1.0	0.5	
cmyn4*	0.5	0.5	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	32.0	17.62	-46.8		
LAB*LABa	32.0	17.39	-47.28		
LAB*TCHa	37.51	50.38	290.19		
relative CIELAB lab*					
lab*lab	0.181	0.259	-0.703		
lab*ch	0.375	0.25	0.806		
lab*nch	0.25	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.181	0.193	-0.724		
lab*nce	0.375	0.25	0.791		
lab*nce	0.25	0.25	0.167		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.25	(1.0)	
cmyn3*	1.0	1.0	0.75	(0.0)	
olvi4*	0.75	0.75	1.0	0.5	
cmyn4*	0.25	0.25	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB					

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

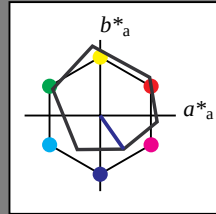
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

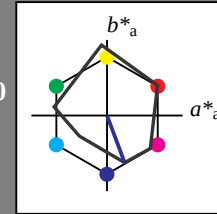
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
CMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 290/360 = 0.807 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

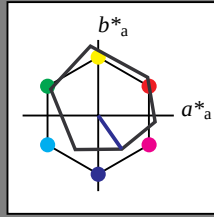
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

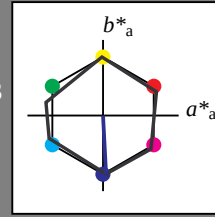
relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

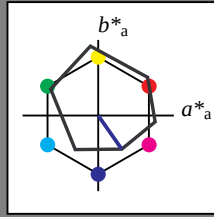
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

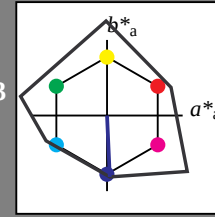
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

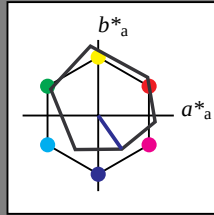
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

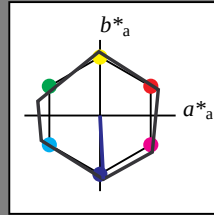
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	1.0	(1.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
olvi5*	0.75	0.75	1.0	(1.0)	
olvi6*	0.75	0.75	1.0	(1.0)	
olvi7*	0.75	0.75	1.0	(1.0)	
olvi8*	0.75	0.75	1.0	(1.0)	
olvi9*	0.75	0.75	1.0	(1.0)	
olvi10*	0.75	0.75	1.0	(1.0)	
olvi11*	0.75	0.75	1.0	(1.0)	
olvi12*	0.75	0.75	1.0	(1.0)	
olvi13*	0.75	0.75	1.0	(1.0)	
olvi14*	0.75	0.75	1.0	(1.0)	
olvi15*	0.75	0.75	1.0	(1.0)	
olvi16*	0.75	0.75	1.0	(1.0)	
olvi17*	0.75	0.75	1.0	(1.0)	
olvi18*	0.75	0.75	1.0	(1.0)	
olvi19*	0.75	0.75	1.0	(1.0)	
olvi20*	0.75	0.75	1.0	(1.0)	
olvi21*	0.75	0.75	1.0	(1.0)	
olvi22*	0.75	0.75	1.0	(1.0)	
olvi23*	0.75	0.75	1.0	(1.0)	
olvi24*	0.75	0.75	1.0	(1.0)	
olvi25*	0.75	0.75	1.0	(1.0)	
olvi26*	0.75	0.75	1.0	(1.0)	
olvi27*	0.75	0.75	1.0	(1.0)	
olvi28*	0.75	0.75	1.0	(1.0)	
olvi29*	0.75	0.75	1.0	(1.0)	
olvi30*	0.75	0.75	1.0	(1.0)	
olvi31*	0.75	0.75	1.0	(1.0)	
olvi32*	0.75	0.75	1.0	(1.0)	
olvi33*	0.75	0.75	1.0	(1.0)	
olvi34*	0.75	0.75	1.0	(1.0)	
olvi35*	0.75	0.75	1.0	(1.0)	
olvi36*	0.75	0.75	1.0	(1.0)	
olvi37*	0.75	0.75	1.0	(1.0)	
olvi38*	0.75	0.75	1.0	(1.0)	
olvi39*	0.75	0.75	1.0	(1.0)	
olvi40*	0.75	0.75	1.0	(1.0)	
olvi41*	0.75	0.75	1.0	(1.0)	
olvi42*	0.75	0.75	1.0	(1.0)	
olvi43*	0.75	0.75	1.0	(1.0)	
olvi44*	0.75	0.75	1.0	(1.0)	
olvi45*	0.75	0.75	1.0	(1.0)	
olvi46*	0.75	0.75	1.0	(1.0)	
olvi47*	0.75	0.75	1.0	(1.0)	
olvi48*	0.75	0.75	1.0	(1.0)	
olvi49*	0.75	0.75	1.0	(1.0)	
olvi50*	0.75	0.75	1.0	(1.0)	
olvi51*	0.75	0.75	1.0	(1.0)	
olvi52*	0.75	0.75	1.0	(1.0)	
olvi53*	0.75	0.75	1.0	(1.0)	
olvi54*	0.75	0.75	1.0	(1.0)	
olvi55*	0.75	0.75	1.0	(1.0)	
olvi56*	0.75	0.75	1.0	(1.0)	
olvi57*	0.75	0.75	1.0	(1.0)	
olvi58*	0.75	0.75	1.0	(1.0)	
olvi59*	0.75	0.75	1.0	(1.0)	
olvi60*	0.75	0.75	1.0	(1.0)	
olvi61*	0.75	0.75	1.0	(1.0)	
olvi62*	0.75	0.75	1.0	(1.0)	
olvi63*	0.75	0.75	1.0	(1.0)	
olvi64*	0.75	0.75	1.0	(1.0)	
olvi65*	0.75	0.75	1.0	(1.0)	
olvi66*	0.75	0.75	1.0	(1.0)	
olvi67*	0.75	0.75	1.0	(1.0)	
olvi68*	0.75	0.75	1.0	(1.0)	
olvi69*	0.75	0.75	1.0	(1.0)	
olvi70*	0.75	0.75	1.0	(1.0)	
olvi71*	0.75	0.75	1.0	(1.0)	
olvi72*	0.75	0.75	1.0	(1.0)	
olvi73*	0.75	0.75	1.0	(1.0)	
olvi74*	0.75	0.75	1.0	(1.0)	
olvi75*	0.75	0.75	1.0	(1.0)	
olvi76*	0.75	0.75	1.0	(1.0)	
olvi77*	0.75	0.75	1.0	(1.0)	
olvi78*	0.75	0.75	1.0	(1.0)	
olvi79*	0.75	0.75	1.0	(1.0)	
olvi80*	0.75	0.75	1.0	(1.0)	
olvi81*	0.75	0.75	1.0	(1.0)	
olvi82*	0.75	0.75	1.0	(1.0)	
olvi83*	0.75	0.75	1.0	(1.0)	
olvi84*	0.75	0.75	1.0	(1.0)	
olvi85*	0.75	0.75	1.0	(1.0)	
olvi86*	0.75	0.75	1.0	(1.0)	
olvi87*	0.75	0.75	1.0	(1.0)	
olvi88*	0.75	0.75	1.0	(1.0)	
olvi89*	0.75	0.75	1.0	(1.0)	
olvi90*	0.75	0.75	1.0	(1.0)	
olvi91*	0.75	0.75	1.0	(1.0)	
olvi92*	0.75	0.75	1.0	(1.0)	
olvi93*	0.75	0.75	1.0	(1.0)	
olvi94*	0.75	0.75	1.0	(1.0)	
olvi95*	0.75	0.75	1.0	(1.0)	
olvi96*	0.75	0.75	1.0	(1.0)	
olvi97*	0.75	0.75	1.0	(1.0)	
olvi98*	0.75	0.75	1.0	(1.0)	
olvi99*	0.75	0.75	1.0	(1.0)	
olvi100*	0.75	0.75	1.0	(1.0)	

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.75	(1.0)
olvi4*	0.5	0.5	0.75	(1.0)
olvi5*	0.75	0.75	1.0	0.75
olvi6*	0.75	0.75	1.0	0.75
olvi7*	0.25	0.25	0.0	0.25
standard and adapted CIELAB				
LAB*LAB	63.75	1.13	-21.06	
LAB*LABa	63.75	1.09	-21.06	
LAB*LABb	62.5	2.1	272.97	
relative CIEHAB lab*				
lab*lab	0.625	0.013	-0.249	
lab*lab _a	0.625	0.25	0.758	
lab*lab _b	0.25	0.25	0.758	
relative Natural Colour (NC)				
lab*lrj	0.625	0.005	-0.249	
lab*nce	0.625	0.25	0.753	
lab*nce	0.25	0.25	0.019	

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

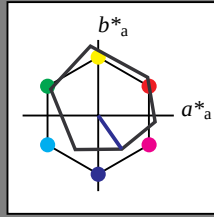
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

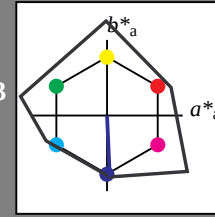
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

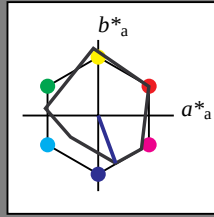
1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

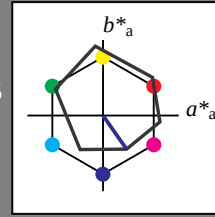
1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$



TRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

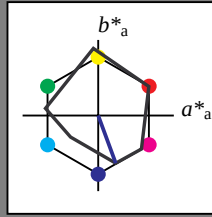
D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	0.0	0.0	
LAB*LABa	95.41	0.0	0.0	
LAB*TC _{Ma}	99.99	0.01	-	
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*ch	1.0	0.0	-	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	1.0	0.0	0.0	
lab*nce	0.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	76.06	0.0	0.0	
LAB*LABa	76.06	0.0	0.0	
LAB*TC _{Ma}	75.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.75	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	0.0	0.0	
LAB*LABa	56.71	0.0	0.0	
LAB*TC _{Ma}	50.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.5	0.0	0.0	
lab*ch	0.5	0.0	-	
lab*nch	0.5	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.5	0.0	0.0	
lab*nce	0.5	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.36	0.0	0.0	
LAB*LABa	37.36	0.0	0.0	
LAB*TC _{Ma}	25.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.36	0.0	0.0	
LAB*LABa	37.36	0.0	0.0	
LAB*TC _{Ma}	25.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*TC _{Ma}	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	-	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*nce	1.0	0.0	-	

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

lab^*tch and lab^*nch

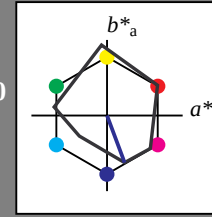
D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

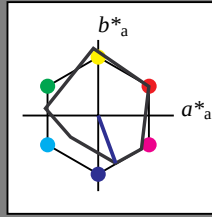
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

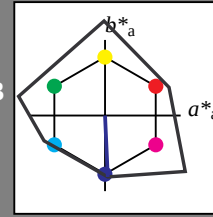
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

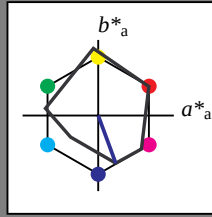
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

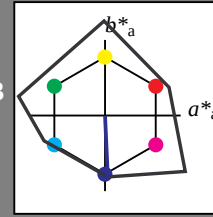
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

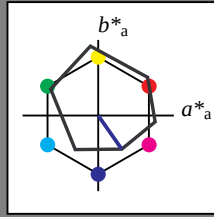
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

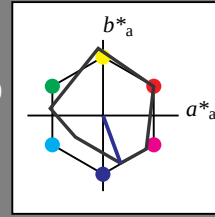
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 290/360 = 0.806 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

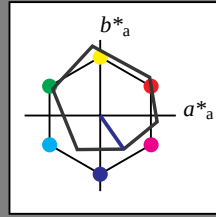
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

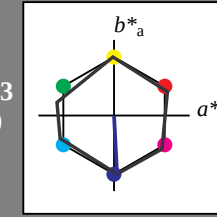
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

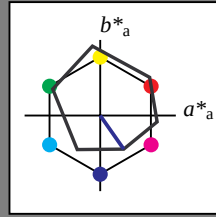
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

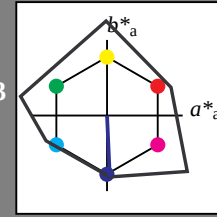
relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

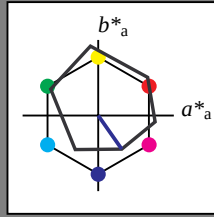
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

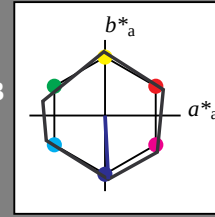
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(1.0)
LAB*LAB	95.41	0.0	-0.01	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCHa	99.99	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	1.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.25	0.25	0.25	0.25	(1.0)
LAB*LAB	74.31	0.02	0.0	0.0	0.0
LAB*LABa	74.31	0.0	0.0	0.0	0.0
LAB*TCHa	75.0	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*ch	0.75	0.0	0.0	0.0	0.0
lab*nch	0.75	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	1.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.5	0.5	0.5	0.5	(1.0)
LAB*LAB	53.21	0.04	0.0	0.0	0.0
LAB*LABa	53.21	0.0	0.0	0.0	0.0
LAB*TCHa	50.0	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*ch	0.5	0.0	0.0	0.0	0.0
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	1.0	0.0	0.0	0.0	0.0
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.75	0.75	0.75	0.75	(1.0)
LAB*LAB	32.11	0.05	0.01	0.0	0.0
LAB*LABa	32.11	0.0	0.0	0.0	0.0
LAB*TCHa	25.0	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	1.0	0.0	0.0	0.0	0.0
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.75	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	1.0	1.0	1.0	1.0	(1.0)
LAB*LAB	11.01	0.07	0.01	0.0	0.0
LAB*LABa	11.01	0.0	0.0	0.0	0.0
LAB*TCHa	0.01	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	1.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	1.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

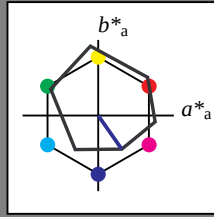
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

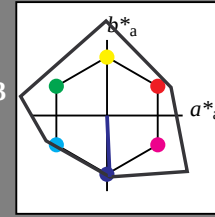
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

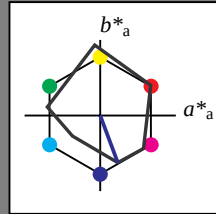
$n^* = 1,0$

0,25

0,50

0,75

1,00



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

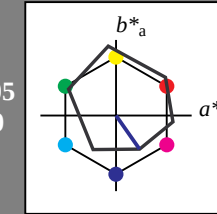
chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

lab^*tch and lab^*nch

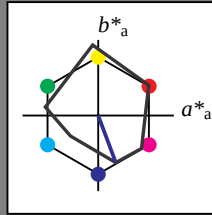
D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

0,75

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ma}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

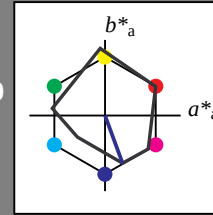
D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	80.72	5.1	-11.98		
LAB*LABa	80.72	5.79	-15.75		
LAB*TC _{Ma}	87.5	16.79	290.19		
relative CIELAB lab*					
lab*lab	0.81	0.086	-0.234		
lab*ch	0.875	0.25	0.806		
lab*nch	0.0	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.81	0.084	-0.24		
lab*nce	0.875	0.25	0.791		
lab*nce	0.0	0.25	0.806		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	66.03	11.17	-28.74		
LAB*LABa	66.03	11.59	-31.51		
LAB*TC _{Ma}	75.0	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.62	0.173	-0.468		
lab*ch	0.75	0.25	0.806		
lab*nch	0.0	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.62	0.193	-0.482		
lab*nce	0.75	0.25	0.791		
lab*nce	0.0	0.25	0.806		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	51.24	17.62	-45.49		
LAB*LABa	51.24	17.39	-47.28		
LAB*TC _{Ma}	50.0	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.431	0.259	-0.703		
lab*ch	0.625	0.75	0.806		
lab*nch	0.0	0.75	0.806		
relative Natural Colour (NC)					
lab*trj	0.431	0.257	-0.965		
lab*nce	0.625	0.75	0.791		
lab*nce	0.0	0.75	0.806		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.181	0.259	-0.703		
lab*ch	0.375	0.75	0.806		
lab*nch	0.0	0.75	0.806		
relative Natural Colour (NC)					
lab*trj	0.181	0.257	-0.724		
lab*nce	0.375	0.75	0.791		
lab*nce	0.0	0.75	0.806		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	27.34	11.92	-31.35		
LAB*LABa	27.34	11.59	-31.51		
LAB*TC _{Ma}	25.01	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.12	0.173	-0.468		
lab*ch	0.25	0.25	0.806		
lab*nch	0.0	0.25	0.806		
relative Natural Colour (NC)					
lab*trj	0.12	0.129	-0.482		
lab*nce	0.25	0.25	0.791		
lab*nce	0.0	0.25	0.806		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIEL					

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

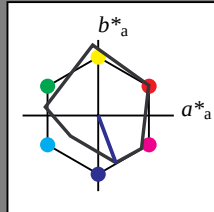
0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

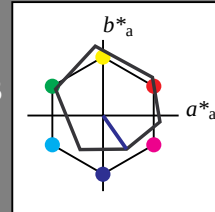
0,75

1,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

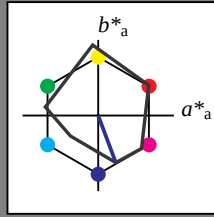
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

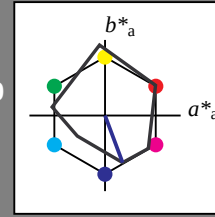
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 290/360 = 0.807 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

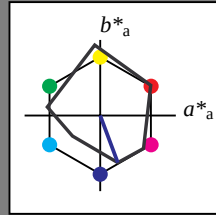
$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* =$

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

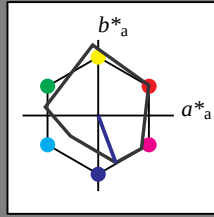
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

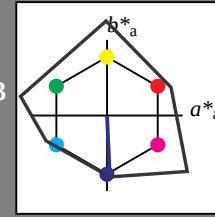
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

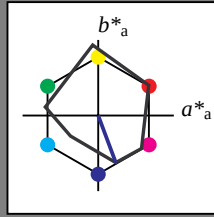
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

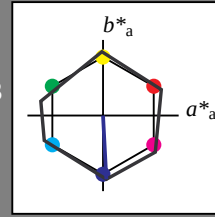
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

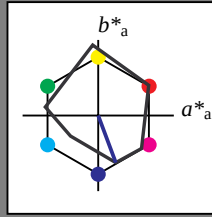
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

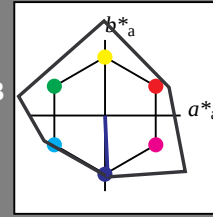
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	1.0	(1.0)
cmyn3*	0.25	0.25	0.25	0.0	(0.0)
olvi4*	1.0	1.0	1.0	0.25	(0.25)
cmyn4*	0.0	0.0	0.0	0.25	(0.25)
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCRa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(0.5)
cmyn3*	0.5	0.5	0.5	0.5	(0.5)
olvi4*	1.0	1.0	1.0	0.5	(0.5)
cmyn4*	0.0	0.0	0.0	0.5	(0.5)
standard and adapted CIELAB					
LAB*LAB	62.71	0.0	0.0		
LAB*LABa	62.71	0.0	0.0		
LAB*TCRa	62.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(0.25)
cmyn3*	0.25	0.25	0.25	0.25	(0.25)
olvi4*	1.0	1.0	1.0	0.25	(0.25)
cmyn4*	0.0	0.0	0.0	0.25	(0.25)
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCRa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	0.0	(0.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	41.6	0.0	0.0		
LAB*LABa	41.6	0.0	0.0		
LAB*TCRa	37.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(0.25)
cmyn3*	0.25	0.25	0.25	0.25	(0.25)
olvi4*	1.0	1.0	1.0	0.25	(0.25)
cmyn4*	0.0	0.0	0.0	0.25	(0.25)
standard and adapted CIELAB					
LAB*LAB	32.11	0.0	0.0		
LAB*LABa	32.11	0.0	0.0		
LAB*TCRa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	0.0	(0.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	11.01	0.0	0.0		
LAB*LABa	11.01	0.0	0.0		
LAB*TCRa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	0.0	(0.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*TCRa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(0.0

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

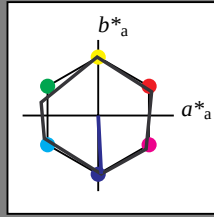
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

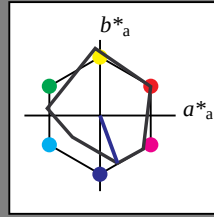
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.75	0.75	0.75	(1.0)	
cmyn4*	0.25	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	80.72	5.1	-11.98		
LAB*LABa	80.72	5.79	-15.75		
LAB*LABb	80.72	5.79	-15.75		
LAB*TCRa	87.5	16.79	290.19		
relative CIELAB lab*					
lab*lab	0.81	0.086	-0.234		
lab*lab	0.81	0.086	-0.234		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.81	0.086	-0.234		
lab*trj	0.81	0.086	-0.234		
lab*nch	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	0.5	0.5	0.5	(1.0)	
cmyn4*	0.5	0.5	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	61.37	5.47	-13.29		
LAB*LABa	61.37	5.8	-15.75		
LAB*LABb	61.37	5.8	-15.75		
LAB*TCRa	62.5	16.8	290.19		
relative CIELAB lab*					
lab*lab	0.56	0.086	-0.234		
lab*lab	0.56	0.086	-0.234		
lab*nch	0.25	0.25	0.25		
relative Natural Colour (NC)					
lab*trj	0.56	0.086	-0.234		
lab*trj	0.56	0.086	-0.234		
lab*nch	0.25	0.25	0.25		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	0.25	0.25	0.25	(1.0)	
cmyn4*	0.25	0.25	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	46.68	11.55	-30.05		
LAB*LABa	46.68	11.59	-31.52		
LAB*LABb	46.68	11.59	-31.52		
LAB*TCRa	50.0	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.37	0.173	-0.468		
lab*lab	0.37	0.173	-0.468		
lab*nch	0.25	0.25	0.25		
relative Natural Colour (NC)					
lab*trj	0.37	0.173	-0.468		
lab*trj	0.37	0.173	-0.468		
lab*nch	0.25	0.25	0.25		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	0.0	0.0	0.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	27.34	11.92	-31.35		
LAB*LABa	27.34	11.59	-31.51		
LAB*LABb	27.34	11.59	-31.51		
LAB*TCRa	25.01	33.59	290.19		
relative CIELAB lab*					
lab*lab	0.12	0.173	-0.468		
lab*lab	0.12	0.173	-0.468		
lab*nch	0.25	0.25	0.25		
relative Natural Colour (NC)					
lab*trj	0.12	0.173	-0.468		
lab*trj	0.12	0.173	-0.468		
lab*nch	0.25	0.25	0.25		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	0.0	0.0	0.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.5	-0.46		
LAB*LABb	18.02	0.5	-0.46		
LAB*TCRa	0.01	0.01			
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	0.0	0.0	0.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*LABb	0.0	0.0	0.0		
LAB*TCRa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	0.0	0.0	0.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*LABb	0.0	0.0	0.0		
LAB*TCRa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	0.0	0.0	0.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*LABb	0.0	0.0	0.0		
LAB*TCRa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 290/360 = 0.806 (right)

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

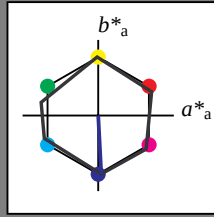
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

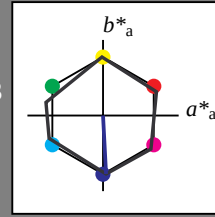
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

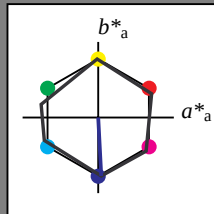
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

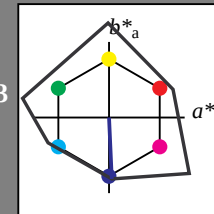
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0	-	
LAB*LABa	76.07	0.0	0.0	-	
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0	-	
LAB*LABa	56.72	0.0	0.0	-	
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.0	0.0	-	
LAB*LABa	37.37	0.0	0.0	-	
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0	-	
LAB*LABa	18.02	0.0	0.0	-	
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	1.0	(1.0)	
cmyn3*	0.25	0.25	0.0	(0.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
cmyn4*	0.25	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.81	0.33	-20.28		
LAB*LABa	83.81	0.33	-20.28		
LAB*TCHa	87.5	20.31	272.56		
relative CIELAB lab*					
lab*lab	0.85	0.011	-0.249		
lab*tch	0.875	0.25	0.757		
lab*nch	0.0	0.25	0.757		
relative Natural Colour (NC)					
lab*trj	0.85	0.003	-0.249		
lab*tce	0.875	0.25	0.752		
lab*nce	0.0	0.25	0.007		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.75	(1.0)	
cmyn3*	0.5	0.5	0.25	(0.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
cmyn4*	0.25	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.46	0.35	-20.28		
LAB*LABa	64.46	0.35	-20.28		
LAB*TCHa	62.5	20.32	272.56		
relative CIELAB lab*					
lab*lab	0.6	0.011	-0.249		
lab*tch	0.625	0.25	0.757		
lab*nch	0.25	0.25	0.757		
relative Natural Colour (NC)					
lab*trj	0.6	0.003	-0.249		
lab*tce	0.625	0.25	0.752		
lab*nce	0.25	0.25	0.007		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.5	(1.0)	
cmyn3*	0.25	0.25	0.5	(0.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
cmyn4*	0.25	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.86	1.97	-40.58		
LAB*LABa	52.86	1.97	-40.58		
LAB*TCHa	50.0	40.64	272.56		
relative CIELAB lab*					
lab*lab	0.45	0.022	-0.498		
lab*tch	0.45	0.25	0.757		
lab*nch	0.25	0.25	0.757		
relative Natural Colour (NC)					
lab*trj	0.45	0.006	-0.499		
lab*tce	0.45	0.25	0.752		
lab*nce	0.25	0.25	0.007		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.5	(1.0)	
cmyn3*	0.0	0.0	0.5	(0.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
cmyn4*	0.5	0.5	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.52	1.9	-40.56		
LAB*LABa	33.52	1.9	-40.56		
LAB*TCHa	25.01	40.64	272.56		
relative CIELAB lab*					
lab*lab	0.2	0.022	-0.498		
lab*tch	0.2	0.25	0.757		
lab*nch	0.5	0.5	0.757		
relative Natural Colour (NC)					
lab*trj	0.2	0.006	-0.499		
lab*tce	0.25	0.25	0.752		
lab*nce	0.5	0.5	0.007		

relative CIELAB lab*			
lab*lab	0.1	0.011	-0.249
lab*ach	0.125	0.25	0.757
lab*nch	0.75	0.25	0.757
relative Natural Colour (NC)			
lab*tri	0.1	0.003	-0.249
lab*acc	0.125	0.25	0.752
lab*nce	0.75	0.25	b00r

0,25

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

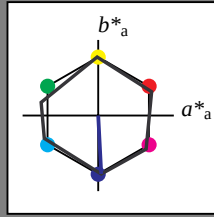
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

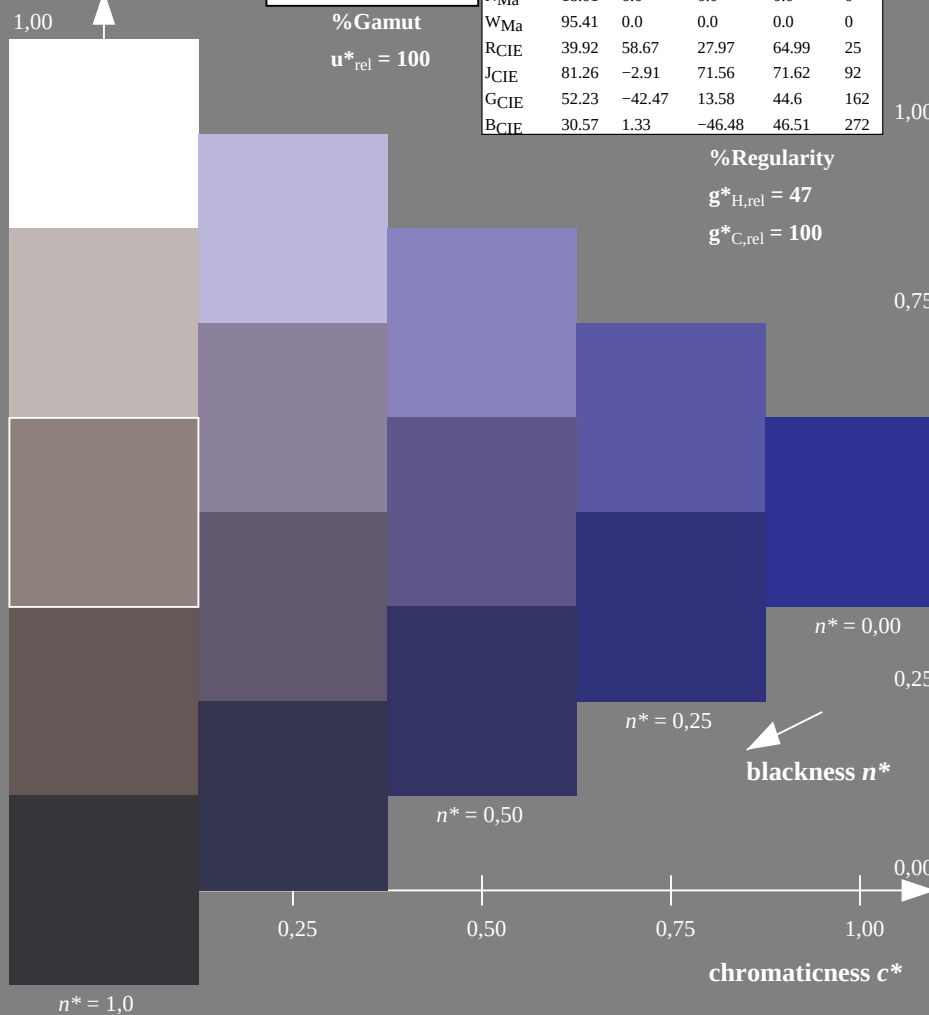


NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

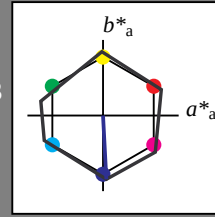
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

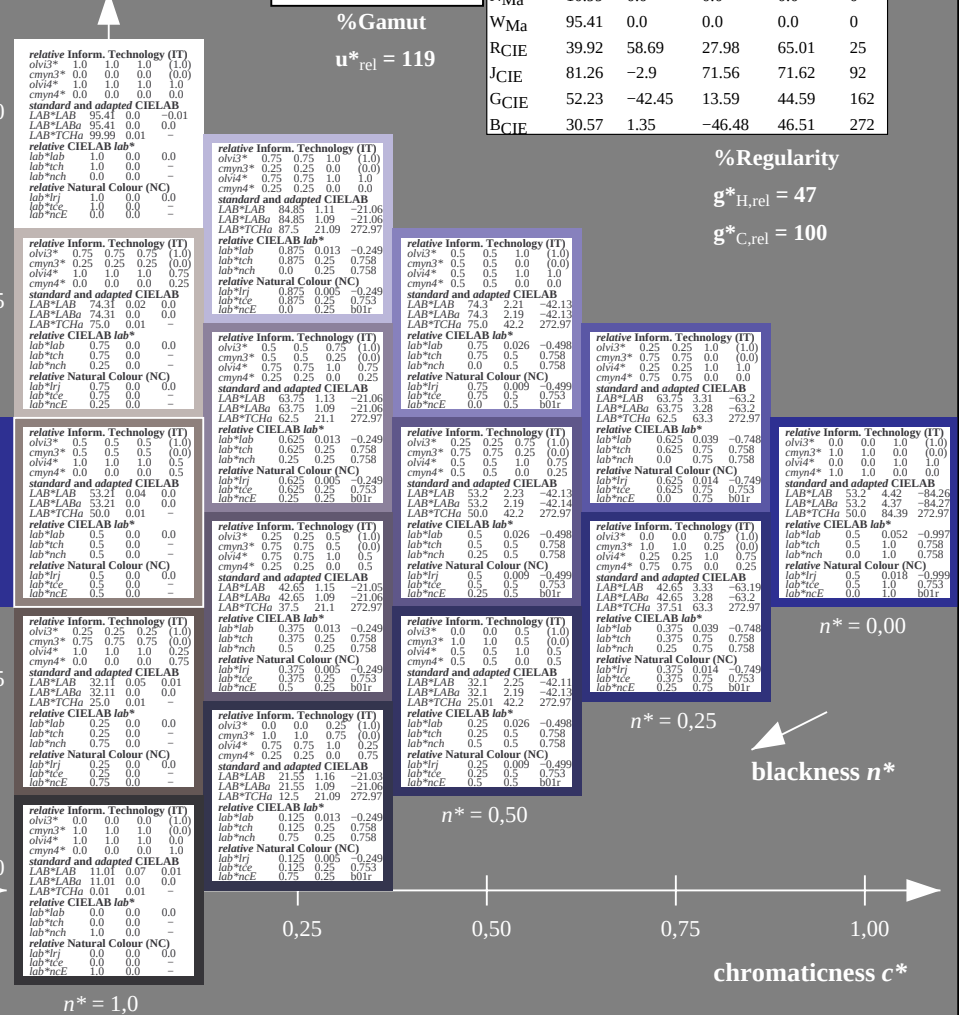


NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

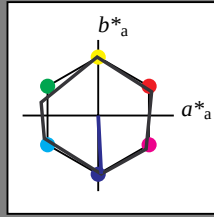
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

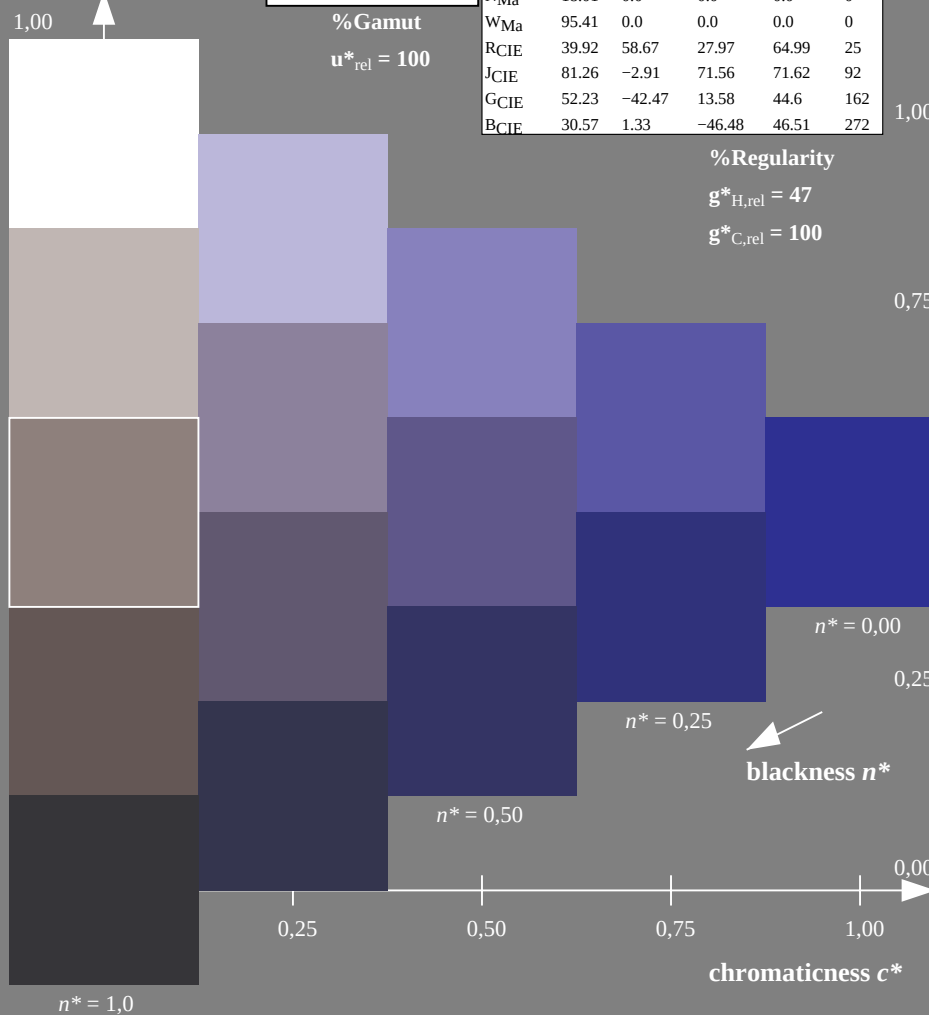


NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

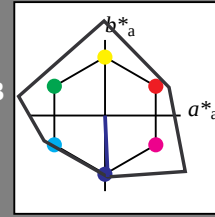
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

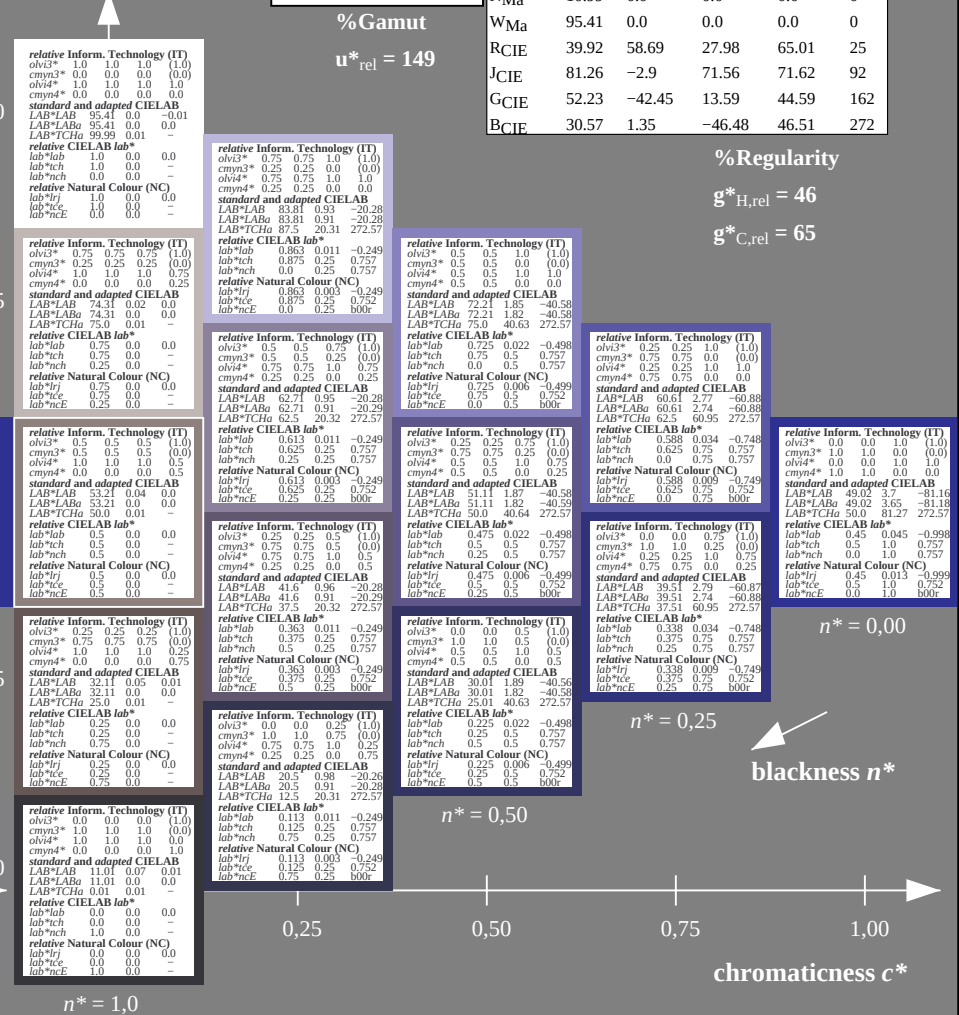


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

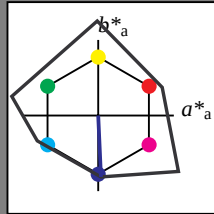
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

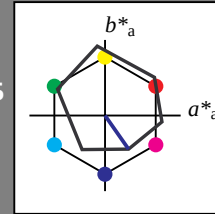
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

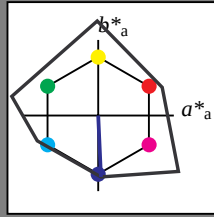
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

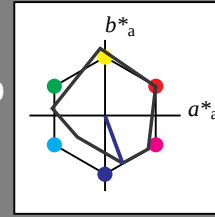
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

5 step scales for constant CIELAB hue 290/360 = 0.806 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

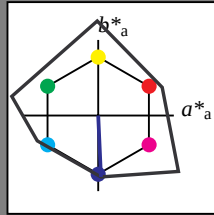
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

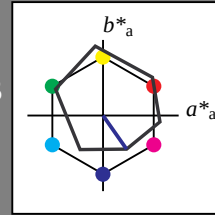
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

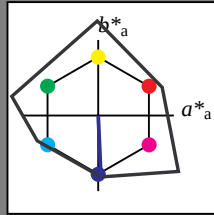
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

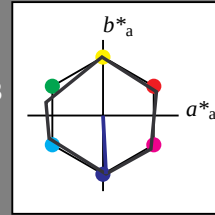
lab*tch

lab*nch

lab*trj

lab*tce

lab*nce



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

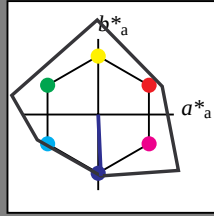
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

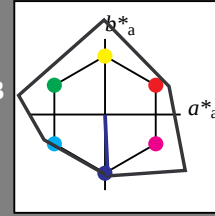
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

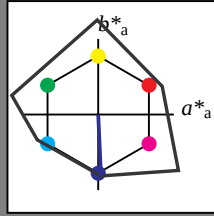
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

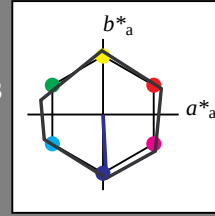
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(1.0)
LAB*LAB	95.41	0.0	-0.01	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TC _{Ha}	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	1.0	0.0	-	-	-
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.25	0.25	0.25	0.25	(1.0)
LAB*LAB	74.31	0.02	0.0	0.0	0.0
LAB*LABa	74.31	0.0	0.0	0.0	0.0
LAB*TC _{Ha}	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*tch	0.75	0.0	-	-	-
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	0.0
lab*tce	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.5	0.5	0.5	0.5	(1.0)
LAB*LAB	53.21	0.04	0.0	0.0	0.0
LAB*LABa	53.21	0.0	0.0	0.0	0.0
LAB*TC _{Ha}	50.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*tch	0.5	0.0	-	-	-
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*tce	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.75	0.75	0.75	0.75	(1.0)
LAB*LAB	32.11	0.05	0.01	0.0	0.0
LAB*LABa	32.11	0.0	0.0	0.0	0.0
LAB*TC _{Ha}	25.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.25	0.0	-	-	-
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*tce	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	1.0	1.0	1.0	1.0	(1.0)
LAB*LAB	11.01	0.07	0.01	0.0	0.0
LAB*LABa	11.01	0.0	0.0	0.0	0.0
LAB*TC _{Ha}	0.01	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	-	-	-
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	1.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.75	0.75	0.75	0.75	(1.0)
LAB*LAB	84.85	1.11	-21.06	0.0	0.0
LAB*LABa	84.85	1.09	-21.06	0.0	0.0
LAB*TC _{Ha}	87.5	21.09	272.97	-	-
relative CIELAB lab*					
lab*lab	0.875	0.013	-0.249	0.0	0.0
lab*tch	0.875	0.0	0.758	0.0	0.0
lab*nch	0.0	0.0	0.25	0.758	0.0
relative Natural Colour (NC)					
lab*trj	0.875	0.005	-0.249	0.0	0.0
lab*tce	0.875	0.0	0.753	0.0	0.0
lab*nce	0.0	0.25	0.01	0.753	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.5	0.5	0.5	0.5	(1.0)
LAB*LAB	63.75	1.13	-21.06	0.0	0.0
LAB*LABa	63.75	1.09	-21.06	0.0	0.0
LAB*TC _{Ha}	62.5	21.1	272.97	-	-
relative CIELAB lab*					
lab*lab	0.625	0.013	-0.249	0.0	0.0
lab*tch	0.625	0.0	0.758	0.0	0.0
lab*nch	0.25	0.0	0.25	0.758	0.0
relative Natural Colour (NC)					
lab*trj	0.625	0.005	-0.249	0.0	0.0
lab*tce	0.625	0.0	0.753	0.0	0.0
lab*nce	0.25	0.25	0.01	0.753	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.25	0.25	0.25	0.25	(1.0)
LAB*LAB	53.2	2.3	-42.13	0.0	0.0
LAB*LABa	53.2	2.19	-42.13	0.0	0.0
LAB*TC _{Ha}	50.0	42.2	272.97	-	-
relative CIELAB lab*					
lab*lab	0.5	0.026	-0.498	0.0	0.0
lab*tch	0.5	0.0	0.758	0.0	0.0
lab*nch	0.25	0.0	0.25	0.758	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.005	-0.498	0.0	0.0
lab*tce	0.5	0.0	0.753	0.0	0.0
lab*nce	0.25	0.25	0.01	0.753	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.5	0.5	(1.0)
LAB*LAB	32.1	2.25	-42.11	0.0	0.0
LAB*LABa	32.1	2.19	-42.13	0.0	0.0
LAB*TC _{Ha}	25.01	42.2	272.97	-	-
relative CIELAB lab*					
lab*lab	0.25	0.026	-0.498	0.0	0.0
lab*tch	0.25	0.0	0.758	0.0	0.0
lab*nch	0.5	0.0	0.25	0.758	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.005	-0.498	0.0	0.0
lab*tce	0.25	0.0	0.753	0.0	0.0
lab*nce	0.5	0.5	0.01	0.753	0.0

	0,25
for constant CIELAB	

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

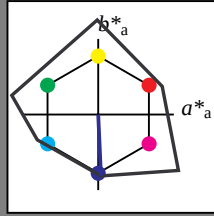
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.06	167
G50B _{Ma}	59.47	-80.61	-33.45	87.28	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

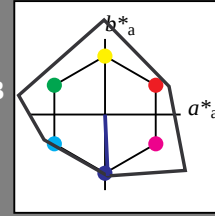
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TC _{Ha}	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.25	(1.0)	
cmyn3*	1.0	1.0	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TC _{Ha}	0.01	0.01	-		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

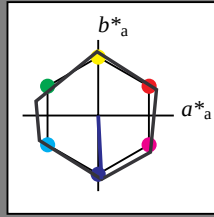
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

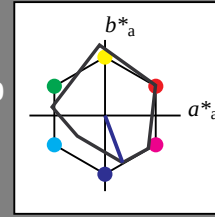
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.0	0.0		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.1	0.02		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 290/360 = 0.807 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	1.0	(1.0)	
cmyn3*	0.25	0.25	0.0	(0.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
cmyn4*	0.25	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	80.72	5.84	-15.55		
LAB*LABa	80.72	5.84	-15.55		
LAB*TCHa	87.5	16.61	290.48		
relative CIELAB lab*					
lab*lab	0.81	0.087	-0.233		
lab*tch	0.875	0.25	0.807		
lab*nch	0.0	0.25	0.807		
relative Natural Colour (NC)					
lab*trj	0.81	0.084	-0.241		
lab*tce	0.875	0.25	0.791		
lab*nce	0.0	0.25	0.791		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.75	(1.0)	
cmyn3*	0.5	0.5	0.25	(0.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
cmyn4*	0.25	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	61.37	5.88	-15.55		
LAB*LABa	61.37	5.88	-15.55		
LAB*TCHa	62.5	16.62	290.48		
relative CIELAB lab*					
lab*lab	0.56	0.087	-0.233		
lab*tch	0.625	0.25	0.807		
lab*nch	0.25	0.25	0.807		
relative Natural Colour (NC)					
lab*trj	0.56	0.084	-0.241		
lab*tce	0.625	0.25	0.791		
lab*nce	0.25	0.25	0.791		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.5	(1.0)	
cmyn3*	0.75	0.75	0.25	(0.0)	
olvi4*	0.75	0.75	1.0	(1.0)	
cmyn4*	0.25	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	46.68	11.63	-31.13		
LAB*LABa	46.68	11.63	-31.13		
LAB*TCHa	50.0	33.24	290.48		
relative CIELAB lab*					
lab*lab	0.37	0.175	-0.467		
lab*tch	0.5	0.5	0.807		
lab*nch	0.25	0.5	0.807		
relative Natural Colour (NC)					
lab*trj	0.37	0.129	-0.482		
lab*tce	0.5	0.5	0.791		
lab*nce	0.25	0.5	0.791		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.5	(1.0)	
cmyn3*	1.0	1.0	0.5	(0.0)	
olvi4*	0.5	0.5	1.0	(1.0)	
cmyn4*	0.5	0.5	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	27.34	11.71	-31.1		
LAB*LABa	27.34	11.63	-31.13		
LAB*TCHa	25.01	33.24	290.48		
relative CIELAB lab*					
lab*lab	0.12	0.175	-0.467		
lab*tch	0.25	0.5	0.807		
lab*nch	0.5	0.5	0.807		
relative Natural Colour (NC)					
lab*trj	0.12	0.128	-0.482		
lab*tce	0.25	0.5	0.791		
lab*nce	0.5	0.5	0.791		

relative Inform. Technology (IT)			
----------------------------------	--	--	--

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

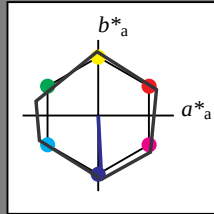
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	53.2	77.06	34.32	84.36	24	
JMa	53.2	-1.51	84.38	84.39	91	
GMa	53.2	-82.27	18.98	84.44	167	
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203	
B _{Ma}	53.2	4.37	-84.28	84.41	273	
B50R _{Ma}	53.2	69.09	-48.41	84.37	325	
N _{Ma}	10.99	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

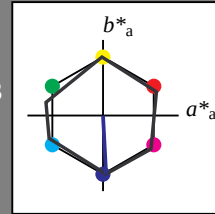
relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB



NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R _{Ma}	56.7	70.66	31.47	77.35	24	
J _{Ma}	56.7	-1.39	77.37	77.39	91	
G _{Ma}	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
N _{Ma}	18.01	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

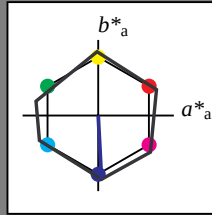
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

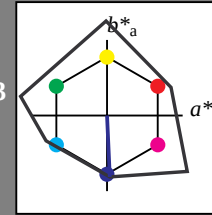
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

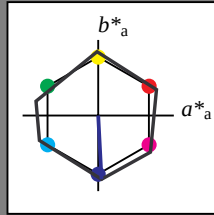
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

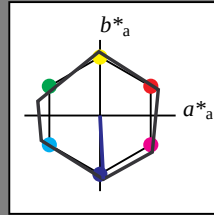
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

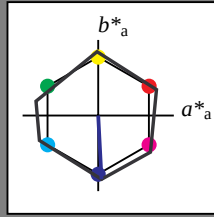
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.758 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

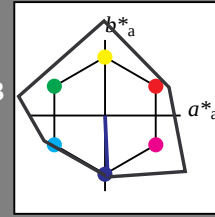
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

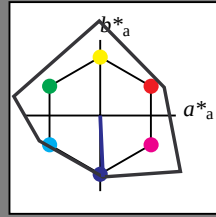
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

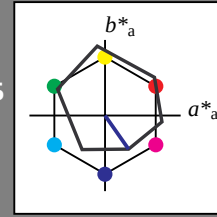
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

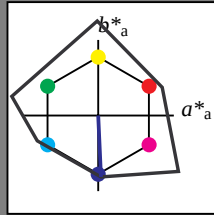
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 273/360 = 0.757$

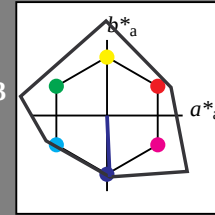
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

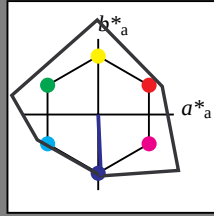
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

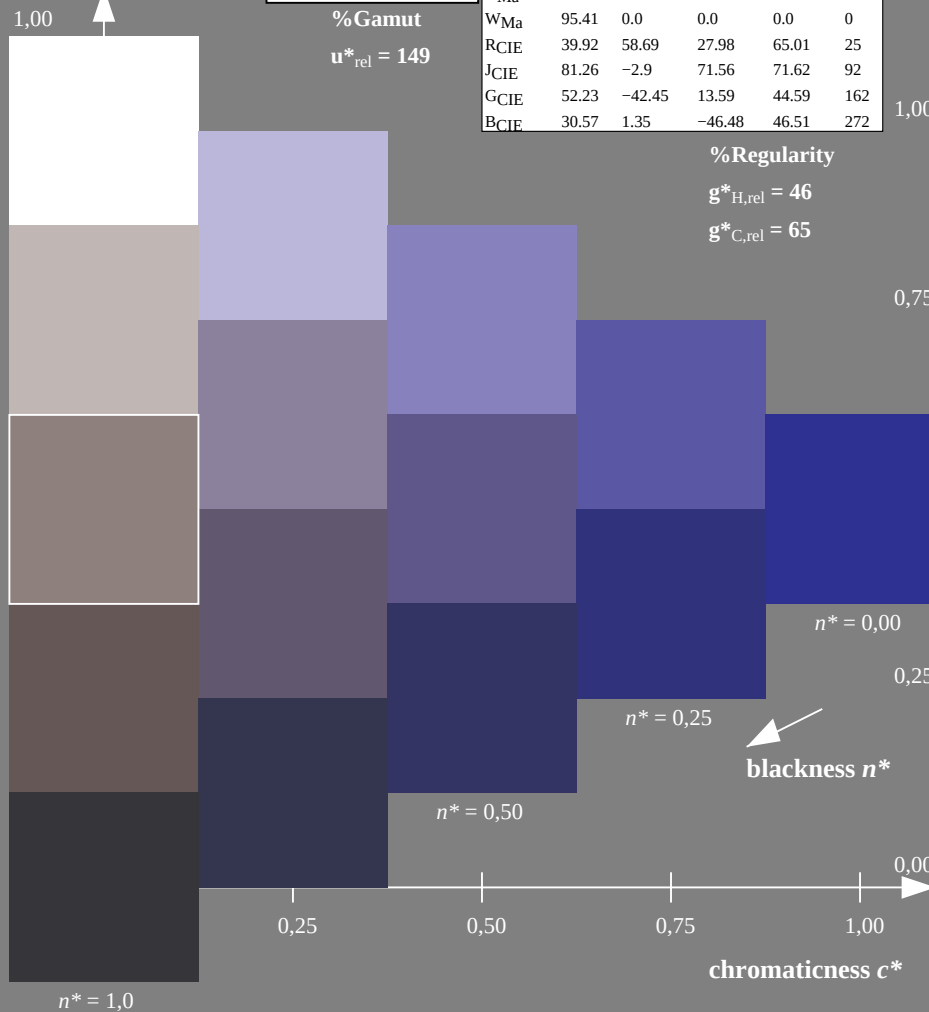


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIE hue 273/360 = 0.757 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

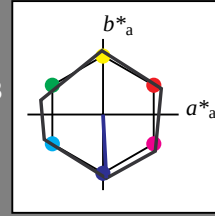
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

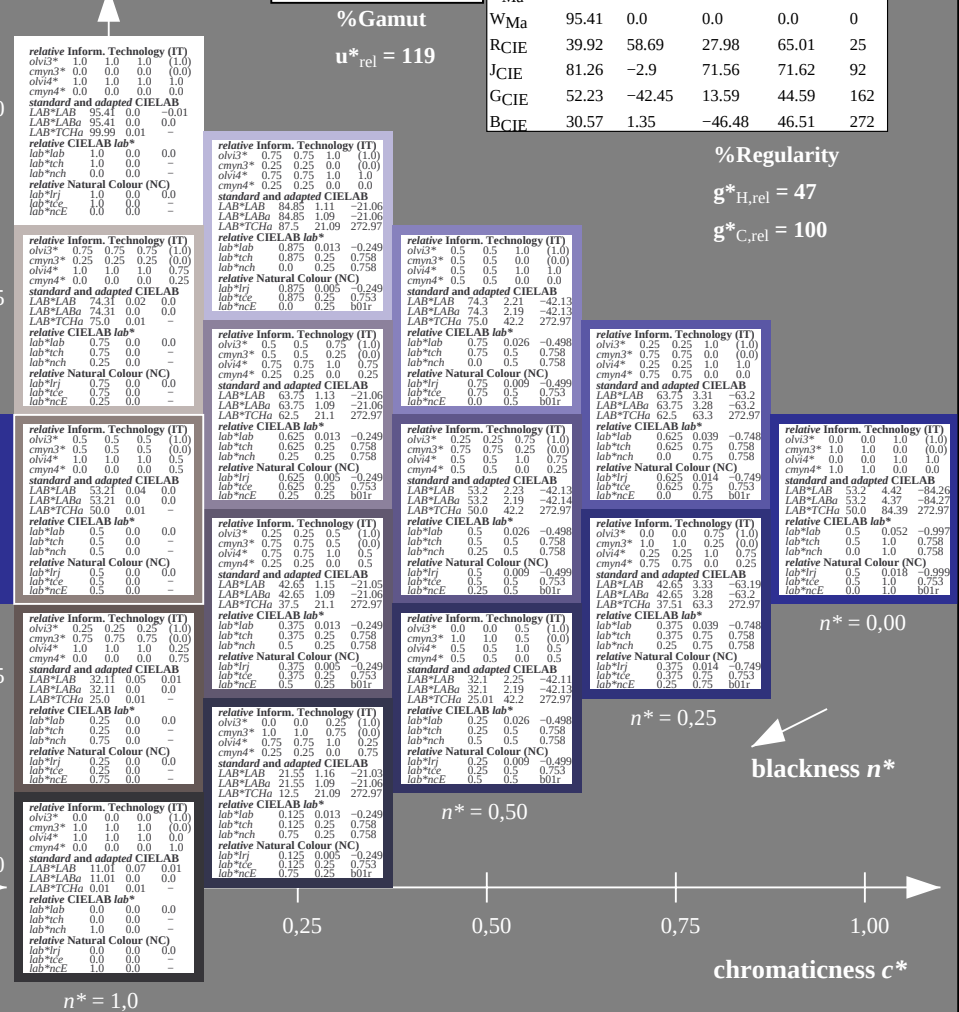


NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



5 step scales for constant CIE hue 273/360 = 0.758 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

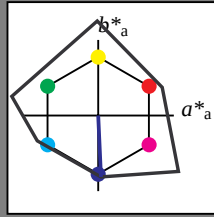
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

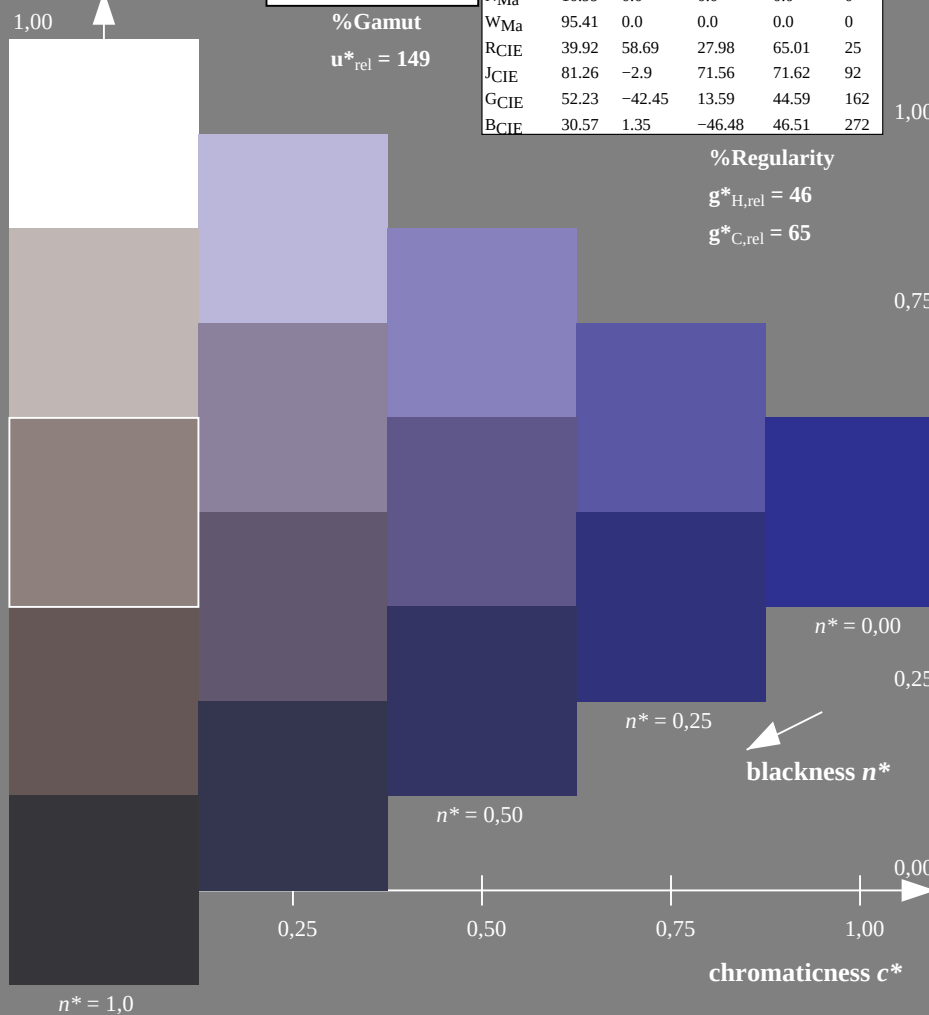
rgb*Ma: 0.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 149$



UE400-7, 5 step scales for constant CIELAB hue 273/360 = 0.757 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

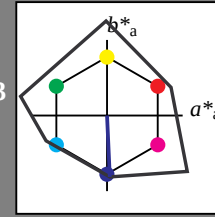
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

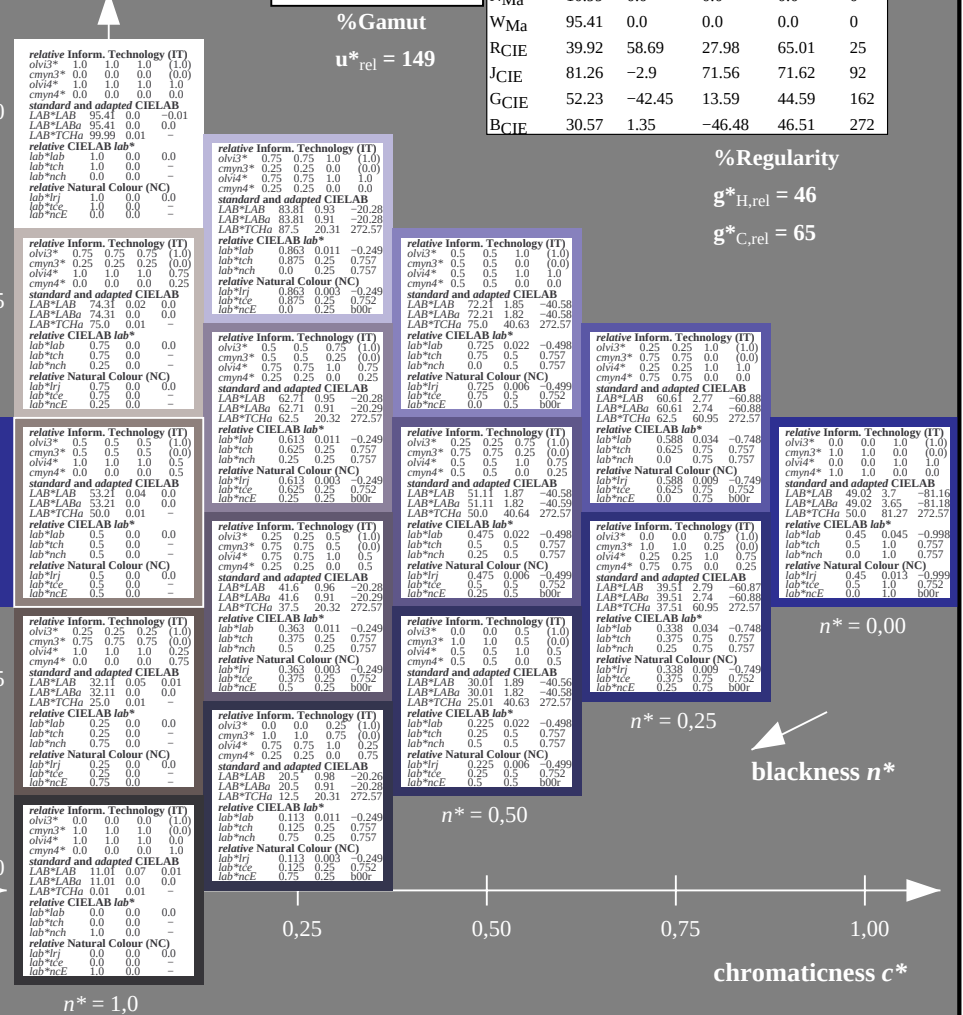
rgb*Ma: 0.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 149$



5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

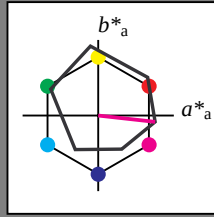
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

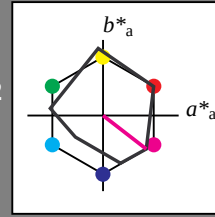
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

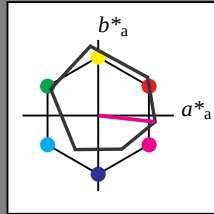
$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

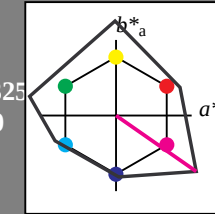
$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

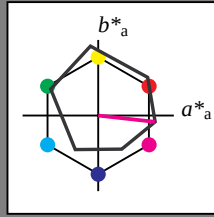
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

1,00

0,75

0,25

0,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 0,982$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$

$n^* = 1,0$ </

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

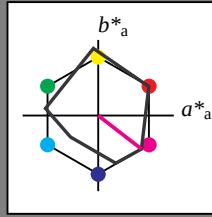
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

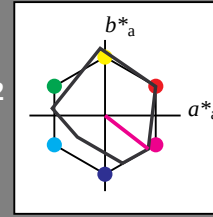
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCHa	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44	-	-
LAB*LABa	76.06	0.0	0.0	-	-
LAB*TCHa	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*ch	0.75	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	56.71	-0.3	2.14	-	-
LAB*LABa	56.71	0.0	0.0	-	-
LAB*TCHa	50.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*ch	0.5	0.0	0.0	0.0	0.0
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.75	(0.0)
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83	-	-
LAB*LABa	37.36	0.0	0.0	-	-
LAB*TCHa	25.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	1.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46	-	-
LAB*LABa	18.02	0.0	0.0	-	-
LAB*TCHa	0.01	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

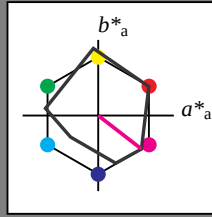
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

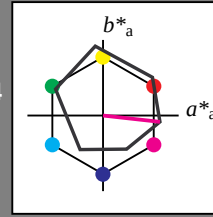
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

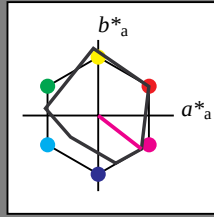
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

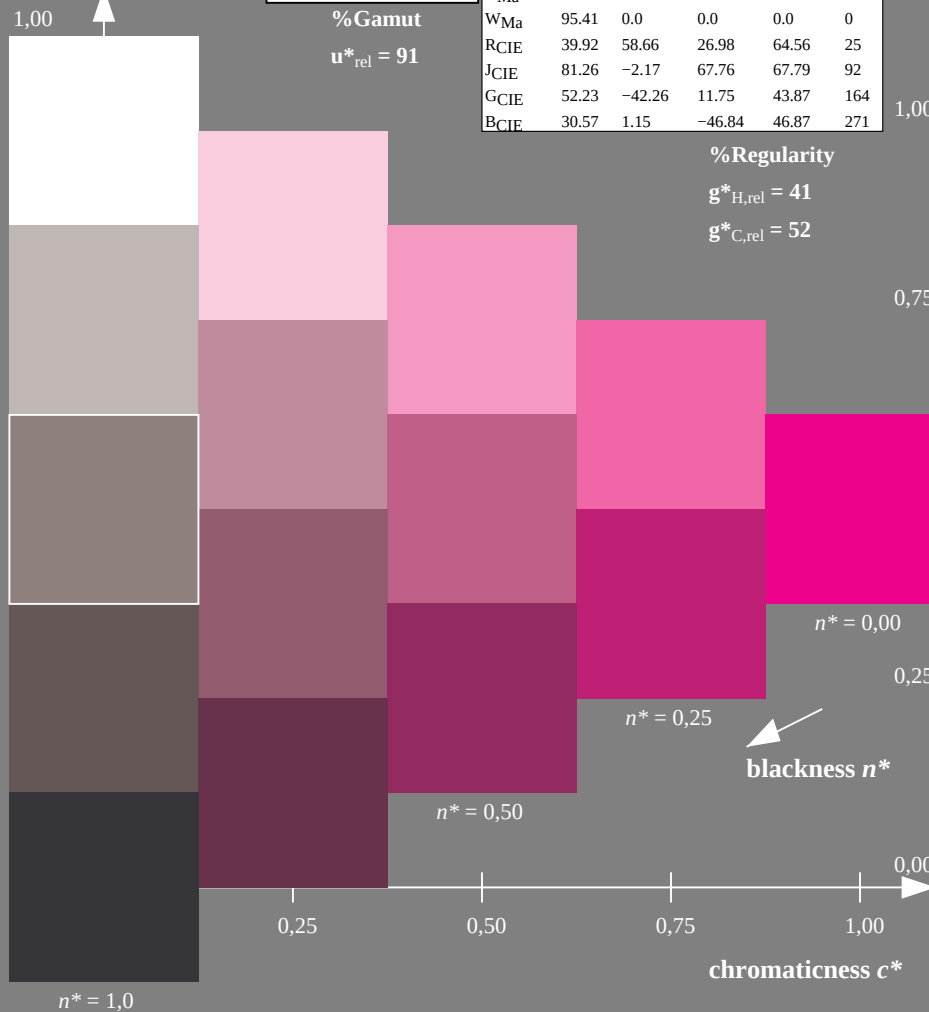
rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$



UE400-7, 5 step scales for constant CIE LAB hue 322/360 = 0.895 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

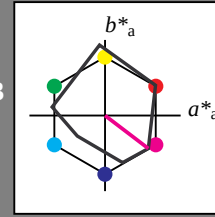
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

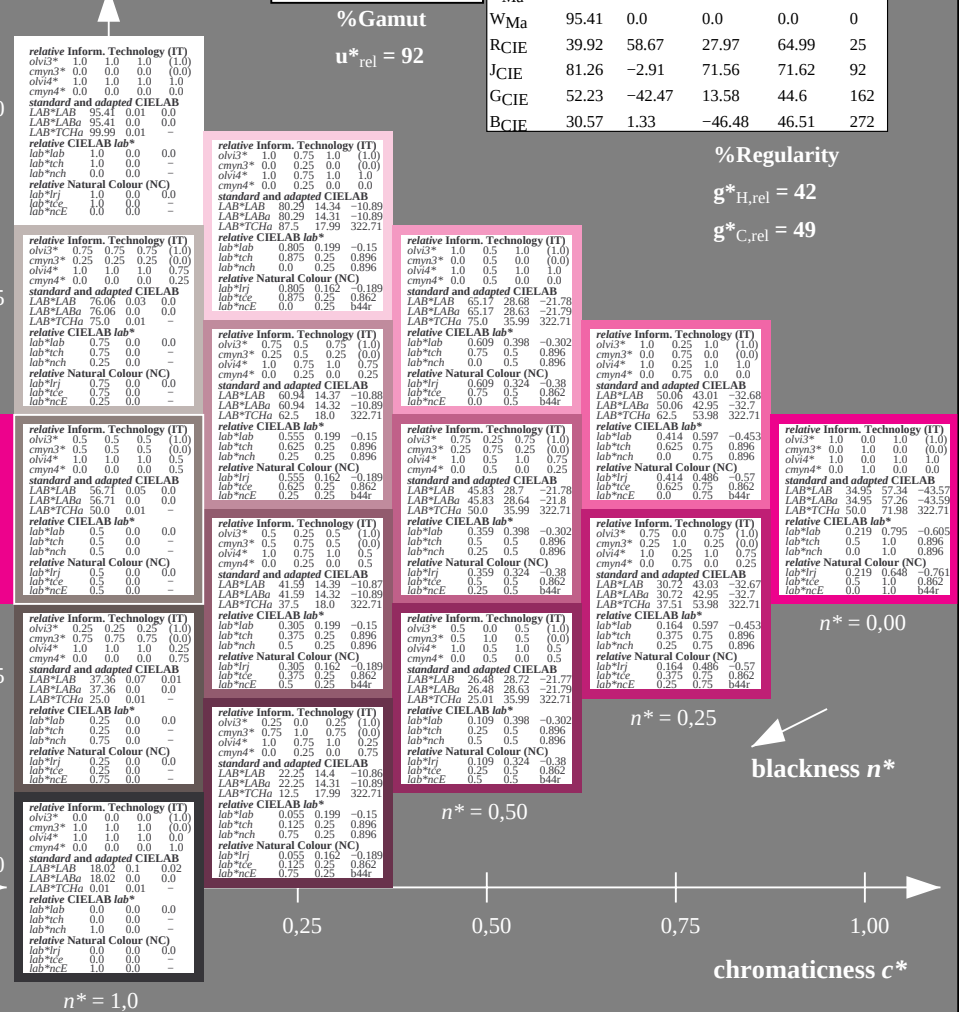
rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$



5 step scales for constant CIE LAB hue 323/360 = 0.896 (right)

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCBa	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	0.0	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0	0.0	0.0
LAB*LABa	76.06	0.0	0.0	0.0	0.0
LAB*TCBa	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*ch	0.75	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	60.94	0.0	0.0	0.0	0.0
LAB*LABa	60.94	0.0	0.0	0.0	0.0
LAB*TCBa	60.94	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*ch	0.5	0.0	0.0	0.0	0.0
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0	0.0	0.0
LAB*LABa	56.71	0.0	0.0	0.0	0.0
LAB*TCBa	50.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	41.59	0.0	0.0	0.0	0.0
LAB*LABa	41.59	0.0	0.0	0.0	0.0
LAB*TCBa	37.5	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	37.36	0.0	0.0	0.0	0.0
LAB*LABa	37.36	0.0	0.0	0.0	0.0
LAB*TCBa	25.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	22.25	0.0	0.0	0.0	0.0
LAB*LABa	22.25	0.0	0.0	0.0	0.0
LAB*TCBa	12.5	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0	0.0	0.0
LAB*LABa	18.02	0.0	0.0	0.0	0.0
LAB*TCBa	0.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	1.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0	0.0	0.0
LAB*LABa	0.0	0.0	0.0	0.0	0.0
LAB*TCBa	0.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	1.0	0.0	0.0	0.0	0.0

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

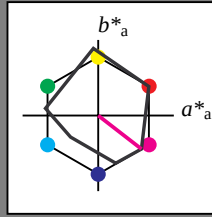
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

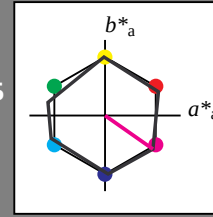
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

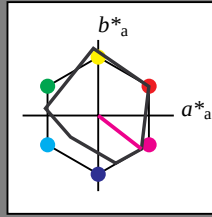
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

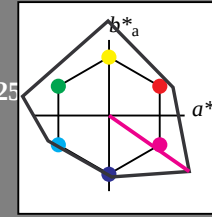
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

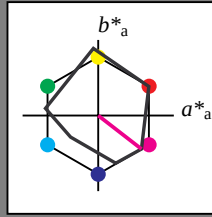
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

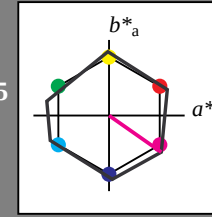
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	63.75	0.0	0.0		
LAB*LABa	63.75	0.0	0.0		
LAB*TCHa	63.75	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	42.65	0.0	0.0		
LAB*LABa	42.65	0.0	0.0		
LAB*TCHa	42.65	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.0	0.0		
LAB*LABa	32.11	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.0	0.0		
LAB*LABa	11.01	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

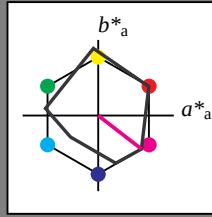
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

blackness n^*

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

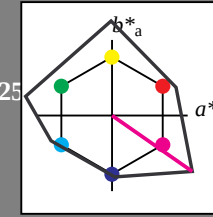
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.01	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCHa	0.01	0.01	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

blackness n^*

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

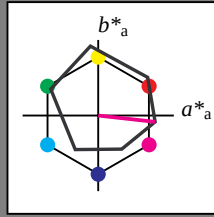
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

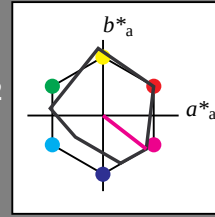
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCBa	99.99	0.01	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0	0.0	0.0
LAB*LABa	76.06	0.0	0.0	0.0	0.0
LAB*TCBa	75.0	0.01	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0	0.0	0.0
LAB*LABa	56.71	0.0	0.0	0.0	0.0
LAB*TCBa	50.0	0.01	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83	0.0	0.0
LAB*LABa	37.36	0.13	0.83	0.0	0.0
LAB*TCBa	25.0	0.01	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46	0.0	0.0
LAB*LABa	18.02	0.5	-0.46	0.0	0.0
LAB*TCBa	0.01	0.01	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0	0.0	0.0
LAB*LABa	0.0	0.0	0.0	0.0	0.0
LAB*TCBa	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

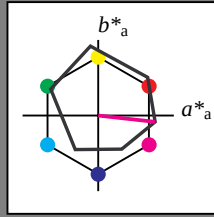
D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	-0.97	4.75	
LAB*LABa	95.41	0.0	0.0	
LAB*TCHa	99.99	0.01	-	
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*ch	1.0	0.0	-	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	1.0	0.0	0.0	
lab*nce	0.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	76.06	-0.6	3.44	
LAB*LABa	76.06	0.0	0.0	
LAB*TCHa	75.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.75	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	64.24	-0.43	0.56	
LAB*LABa	64.24	0.0	0.0	
LAB*TCHa	62.5	0.01	-	
relative CIELAB lab*				
lab*lab	0.5	0.0	0.0	
lab*ch	0.5	0.0	-	
lab*nch	0.5	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.5	0.0	0.0	
lab*nce	0.5	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.23	2.14	
LAB*LABa	56.71	0.0	0.0	
LAB*TCHa	50.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	48.13	-0.35	1.14	
LAB*LABa	48.13	0.0	0.0	
LAB*TCHa	48.13	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.36	-0.13	0.83	
LAB*LABa	37.36	0.0	0.0	
LAB*TCHa	37.36	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	30.57	-0.01	0.01	
LAB*LABa	30.57	0.0	0.0	
LAB*TCHa	30.57	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	25.0	0.0	0.0	
LAB*LABa	25.0	0.0	0.0	
LAB*TCHa	25.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.5	-0.46	
LAB*LABa	18.02	0.0	0.0	
LAB*TCHa	18.02	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	12.5	18.92	353.66	
LAB*LABa	12.5	0.0	0.0	
LAB*TCHa	12.5	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*TCHa	0.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*TCHa	0.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*TCHa	0.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*TCHa	0.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.0	0.0	0.0	
LAB*LABa	0.0	0.0	0.0	
LAB*TCHa	0.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	-	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*nce	0.25	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				

5 step scales for constant CIELAB hue 323/360 = 0.896 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

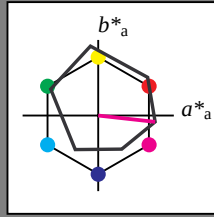
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

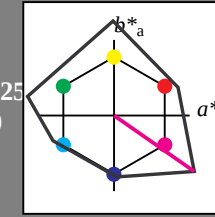
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	0.0	-0.01
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCHa	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	0.0	
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	
lab*tce	0.0	0.0	0.0	0.0	
lab*nce	0.0	0.0	0.0	0.0	

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.75	0.75	0.75	0.75	(1.0)
LAB*LAB	76.07	0.02	0.0	0.0	
LAB*LABa	76.07	0.0	0.0	0.0	
LAB*TCHa	75.0	0.01	-	-	
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	
lab*tch	0.75	0.0	0.0	0.0	
lab*nch	0.25	0.0	0.0	0.0	
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	
lab*tce	0.25	0.0	0.0	0.0	
lab*nce	0.25	0.0	0.0	0.0	

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.5	0.5	0.5	0.5	(1.0)
LAB*LAB	56.72	0.0	0.0	0.0	
LAB*LABa	56.72	0.0	0.0	0.0	
LAB*TCHa	50.0	0.01	-	-	
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	
lab*tch	0.5	0.0	0.0	0.0	
lab*nch	0.5	0.0	0.0	0.0	
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	
lab*tce	0.5	0.0	0.0	0.0	
lab*nce	0.5	0.0	0.0	0.0	

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.25	0.25	0.25	0.25	(1.0)
LAB*LAB	37.37	0.07	0.01	0.0	
LAB*LABa	37.37	0.0	0.0	0.0	
LAB*TCHa	25.0	0.01	-	-	
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	
lab*tch	0.25	0.0	0.0	0.0	
lab*nch	0.25	0.0	0.0	0.0	
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	
lab*tce	0.25	0.0	0.0	0.0	
lab*nce	0.25	0.0	0.0	0.0	

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	(1.0)
LAB*LAB	18.02	0.09	0.02	0.0	
LAB*LABa	18.02	0.0	0.0	0.0	
LAB*TCHa	0.01	0.01	-	-	
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	0.0	
lab*nch	1.0	0.0	0.0	0.0	
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	
lab*tce	0.0	0.0	0.0	0.0	
lab*nce	1.0	0.0	0.0	0.0	

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
CMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

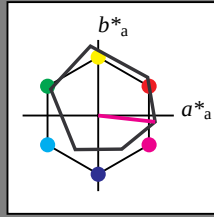
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

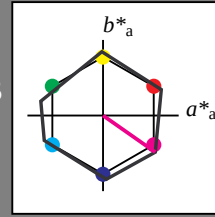
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*TCMa	99.99	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	1.0	0.0	0.0	0.0	0.0
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	84.85	17.28	-12.09	-	-
LAB*TCMa	84.85	17.27	-12.09	-	-
LAB*TCMa	87.5	21.08	324.98	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.875	0.205	-0.142	-	-
lab*tch	0.875	0.205	0.903	-	-
lab*nch	0.0	0.0	0.25	0.903	-
relative Natural Colour (NC)	0.875	0.205	0.903	-	-
lab*trj	0.875	0.205	0.903	-	-
lab*tce	0.0	0.0	0.25	0.903	-
lab*nce	0.0	0.0	0.25	0.903	-

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	74.3	34.57	-24.19	-	-
LAB*TCMa	74.3	34.54	-24.2	-	-
LAB*TCMa	75.0	42.18	324.98	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.75	0.409	-0.286	-	-
lab*tch	0.75	0.409	0.903	-	-
lab*nch	0.0	0.0	0.25	0.903	-
relative Natural Colour (NC)	0.75	0.409	0.903	-	-
lab*trj	0.75	0.409	0.903	-	-
lab*tce	0.0	0.0	0.25	0.903	-
lab*nce	0.0	0.0	0.25	0.903	-

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	63.75	17.31	-12.09	-	-
LAB*TCMa	63.75	17.27	-12.1	-	-
LAB*TCMa	62.5	21.09	324.98	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.625	0.205	-0.142	-	-
lab*tch	0.625	0.205	0.903	-	-
lab*nch	0.0	0.0	0.25	0.903	-
relative Natural Colour (NC)	0.625	0.205	0.903	-	-
lab*trj	0.625	0.205	0.903	-	-
lab*tce	0.0	0.0	0.25	0.903	-
lab*nce	0.0	0.0	0.25	0.903	-

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	53.2	34.59	-24.19	-	-
LAB*TCMa	53.2	34.55	-24.2	-	-
LAB*TCMa	50.0	42.19	324.98	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.5	0.409	-0.286	-	-
lab*tch	0.5	0.409	0.903	-	-
lab*nch	0.0	0.0	0.25	0.903	-
relative Natural Colour (NC)	0.5	0.409	0.903	-	-
lab*trj	0.5	0.409	0.903	-	-
lab*tce	0.0	0.0	0.25	0.903	-
lab*nce	0.0	0.0	0.25	0.903	-

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	42.65	17.32	-12.08	-	-
LAB*TCMa	42.65	17.27	-12.1	-	-
LAB*TCMa	37.5	21.09	324.98	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.375	0.205	-0.142	-	-
lab*tch	0.375	0.205	0.903	-	-
lab*nch	0.0	0.0	0.25	0.903	-
relative Natural Colour (NC)	0.375	0.205	0.903	-	-
lab*trj	0.375	0.205	0.903	-	-
lab*tce	0.0	0.0	0.25	0.903	-
lab*nce	0.0	0.0	0.25	0.903	-

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	32.11	0.05	0.01	-	-
LAB*TCMa	32.11	0.05	0.01	-	-
LAB*TCMa	25.0	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.25	0.0	0.0	0.0	0.0
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	11.01	0.07	0.01	-	-
LAB*TCMa	11.01	0.07	0.01	-	-
LAB*TCMa	0.01	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	11.01	0.07	0.01	-	-
LAB*TCMa	11.01	0.07	0.01	-	-
LAB*TCMa	0.01	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	11.01	0.07	0.01	-	-
LAB*TCMa	11.01	0.07	0.01	-	-
LAB*TCMa	0.01	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	$olvi4^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	11.01	0.07	0.01	-	-
LAB*TCMa	11.01	0.07	0.01	-	-
LAB*TCMa	0.01	0.01	-	-	-
relative CIELAB lab*	1.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

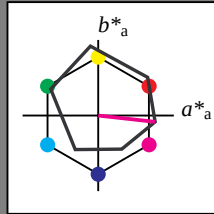
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

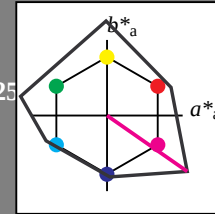
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
CMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,25

0,00

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

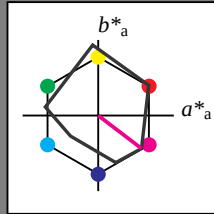
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

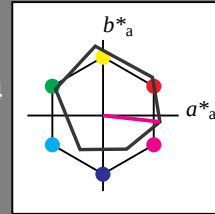
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 323/360 = 0.896 (left)

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

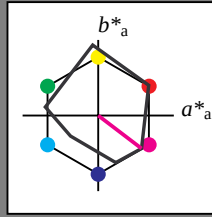
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

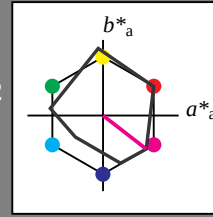
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 323/360 = 0.896 (left)

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

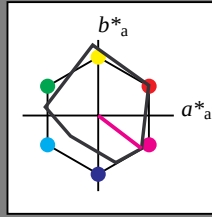
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 323/360 = 0.896 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

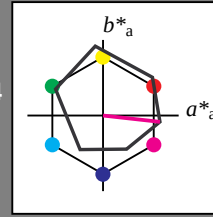
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

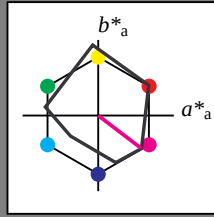
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

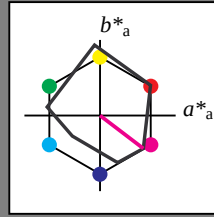
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

UE400-7, 5 step scales for constant CIELAB hue 323/360 = 0.896 (left)

5 step scales for constant CIELAB hue 323/360 = 0.896 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

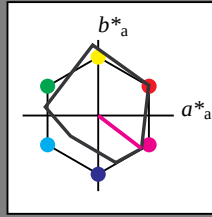
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a)	CIELAB data				
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 323/360 = 0.896 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

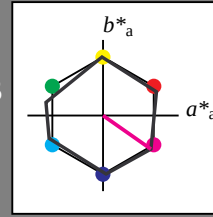
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a)	CIELAB data				
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

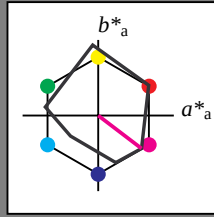
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

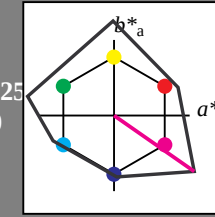
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	76.07	0.02	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*LABb	75.01	-	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	(1.0)
cmyn4*	0.0	0.0	0.0	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	63.22	26.56	-18.47		
LAB*LABa	63.22	26.52	-18.48		
LAB*LABb	62.5	32.33	325.12		
relative CIELAB lab*					
lab*lab	0.584	0.205	-0.142		
lab*tch	0.625	0.25	0.903		
lab*nch	0.25	0.25	0.903		
relative Natural Colour (NC)					
lab*trj	0.584	0.168	-0.184		
lab*tce	0.625	0.25	0.867		
lab*nce	0.25	0.25	0.867		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*LABb	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.5	(1.0)	
cmyn3*	0.5	0.25	0.5	(0.0)	
olvi4*	1.0	0.75	1.0	0.5	(1.0)
cmyn4*	0.0	0.25	0.0	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	43.87	26.52	-18.48		
LAB*LABa	43.87	26.52	-18.48		
LAB*LABb	37.5	32.33	325.12		
relative CIELAB lab*					
lab*lab	0.334	0.205	-0.142		
lab*tch	0.375	0.25	0.903		
lab*nch	0.5	0.25	0.903		
relative Natural Colour (NC)					
lab*trj	0.334	0.168	-0.184		
lab*tce	0.375	0.25	0.867		
lab*nce	0.5	0.25	0.867		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.0	0.0		
LAB*LABb	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	0.25
cmyn4*	0.0	0.0	0.0	0.75
standard and adapted CIELAB				
LAB*LAB	37.37	0.07	0.01	
LAB*LABa	37.37	0.0	0.0	
LAB*TChA	25.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

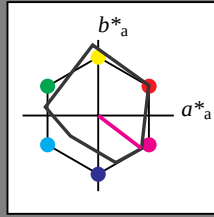
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 323/360 = 0.896 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

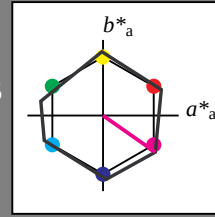
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
standard and adapted CIELAB	0.0	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*LABb	95.41	0.0	0.0	0.0	0.0
LAB*LABc	95.41	0.0	0.0	0.0	0.0
LAB*LABd	95.41	0.0	0.0	0.0	0.0
LAB*LABe	95.41	0.0	0.0	0.0	0.0
LAB*LABf	95.41	0.0	0.0	0.0	0.0
LAB*LABg	95.41	0.0	0.0	0.0	0.0
LAB*LABh	95.41	0.0	0.0	0.0	0.0
LAB*LABi	95.41	0.0	0.0	0.0	0.0
LAB*LABj	95.41	0.0	0.0	0.0	0.0
LAB*LABk	95.41	0.0	0.0	0.0	0.0
LAB*LABl	95.41	0.0	0.0	0.0	0.0
LAB*LABm	95.41	0.0	0.0	0.0	0.0
LAB*LABn	95.41	0.0	0.0	0.0	0.0
LAB*LABo	95.41	0.0	0.0	0.0	0.0
LAB*LABp	95.41	0.0	0.0	0.0	0.0
LAB*LABq	95.41	0.0	0.0	0.0	0.0
LAB*LABr	95.41	0.0	0.0	0.0	0.0
LAB*LABs	95.41	0.0	0.0	0.0	0.0
LAB*LABt	95.41	0.0	0.0	0.0	0.0
LAB*LABu	95.41	0.0	0.0	0.0	0.0
LAB*LABv	95.41	0.0	0.0	0.0	0.0
LAB*LABw	95.41	0.0	0.0	0.0	0.0
LAB*LABx	95.41	0.0	0.0	0.0	0.0
LAB*LABy	95.41	0.0	0.0	0.0	0.0
LAB*LABz	95.41	0.0	0.0	0.0	0.0

<i>lab*tcE</i>	0.625	0.25	0.867
<i>lab*ncE</i>	0.25	0.25	b46r

relative Inform. Technology (IT)				
<i>olvi3*</i>	0.5	0.25	0.5	(1.0
<i>cmyn3*</i>	0.5	0.75	0.5	(0.0
<i>olvi4*</i>	1.0	0.75	1.0	0.5

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

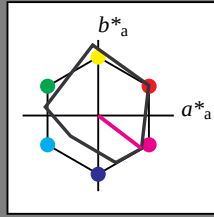
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

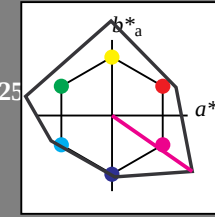
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

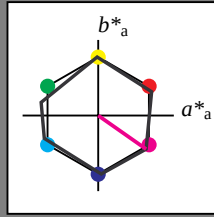
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

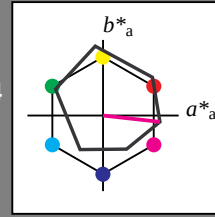
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	-0.97	4.75	-	-
LAB*LABa	95.41	0.0	0.0	-	-
LAB*TCHa	99.99	0.01	-	-	-

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	-	-
lab*tch	1.0	0.0	-	-	-
lab*nch	0.0	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	-	-
lab*tce	0.0	0.0	-	-	-
lab*nce	0.0	0.0	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44	-	-
LAB*LABa	76.06	0.0	0.0	-	-
LAB*TCHa	75.0	0.01	-	-	-

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	-	-
lab*tch	0.75	0.0	-	-	-
lab*nch	0.25	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	-	-
lab*tce	0.25	0.0	-	-	-
lab*nce	0.25	0.0	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14	-	-
LAB*LABa	56.71	0.0	0.0	-	-
LAB*TCHa	50.0	0.01	-	-	-

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	-	-
lab*tch	0.5	0.0	-	-	-
lab*nch	0.5	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	-	-
lab*tce	0.5	0.0	-	-	-
lab*nce	0.5	0.0	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83	-	-
LAB*LABa	37.36	0.0	0.0	-	-
LAB*TCHa	25.0	0.01	-	-	-

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	-	-
lab*tch	0.25	0.0	-	-	-
lab*nch	0.75	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	-	-
lab*tce	0.25	0.0	-	-	-
lab*nce	0.75	0.0	-	-	-

$n^* = 1,0$

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	1.0	(1.0)	(1.0)
cmyn3*	0.0	0.5	0.0	(0.0)	(0.0)
olvi4*	1.0	0.5	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.5	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	71.77	37.1	-1.01	-	-
LAB*LABa	71.77	37.63	-4.17	-	-
LAB*TCHa	75.0	37.86	353.66	-	-

relative CIELAB lab*					
lab*lab	0.695	0.497	-0.054	-	-
lab*tch	0.75	0.5	0.982	-	-
lab*nch	0.0	0.5	0.982	-	-
relative Natural Colour (NC)					
lab*trj	0.695	0.454	-0.208	-	-
lab*tce	0.75	0.5	0.932	-	-
lab*nce	0.0	0.5	0.72r	-	-

relative Inform. Technology (IT)					
olvi3*	0.75	0.25	0.75	(1.0)	(1.0)
cmyn3*	0.25	0.75	0.25	(0.0)	(0.0)
olvi4*	1.0	0.5	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.5	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	52.42	37.48	-2.31	-	-
LAB*LABa	52.42	37.63	-4.17	-	-
LAB*TCHa	50.0	37.86	353.66	-	-

relative CIELAB lab*					
lab*lab	0.445	0.497	-0.054	-	-
lab*tch	0.75	0.5	0.982	-	-
lab*nch	0.25	0.5	0.982	-	-
relative Natural Colour (NC)					
lab*trj	0.445	0.454	-0.208	-	-
lab*tce	0.75	0.5	0.932	-	-
lab*nce	0.25	0.5	0.72r	-	-

relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.5	(1.0)	(1.0)
cmyn3*	0.5	1.0	0.5	(0.0)	(0.0)
olvi4*	1.0	0.5	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.5	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	40.61	56.51	-5.2	-	-
LAB*LABa	40.61	56.44	-6.26	-	-
LAB*TCHa	37.51	56.79	353.66	-	-

relative CIELAB lab*					
lab*lab	0.292	0.745	-0.082	-	-
lab*tch	0.75	0.5	0.982	-	-
lab*nch	0.25	0.5	0.982	-	-
relative Natural Colour (NC)					
lab*trj	0.292	0.682	-0.312	-	-
lab*tce	0.75	0.5	0.932	-	-
lab*nce	0.25	0.5	0.72r	-	-

$n^* = 0,50$

$n^* = 0,50$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

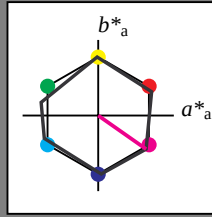
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

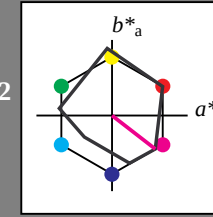
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

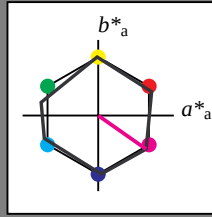
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

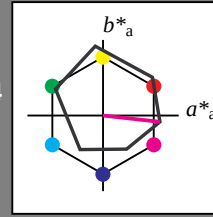
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

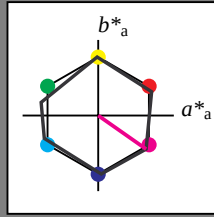
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

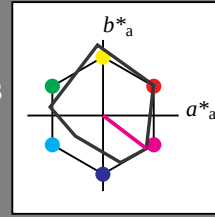
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 323/360 = 0.896 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

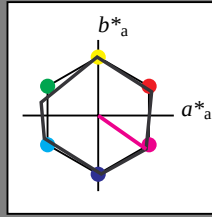
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

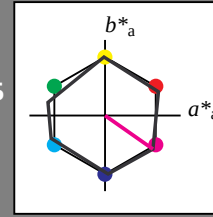
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

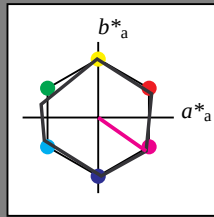
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

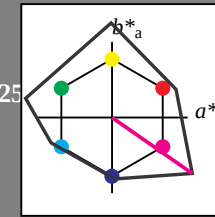
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.07	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.09	0.02		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

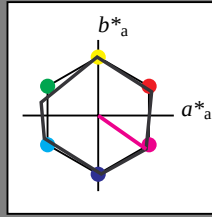
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	56.7	70.66	31.47	77.35	24	
JMa	56.7	-1.39	77.37	77.39	91	
GMa	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
NMa	18.01	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

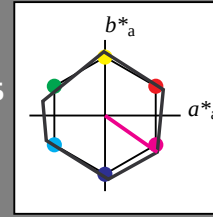
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

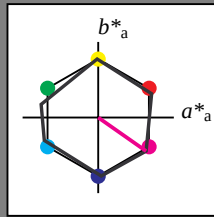
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

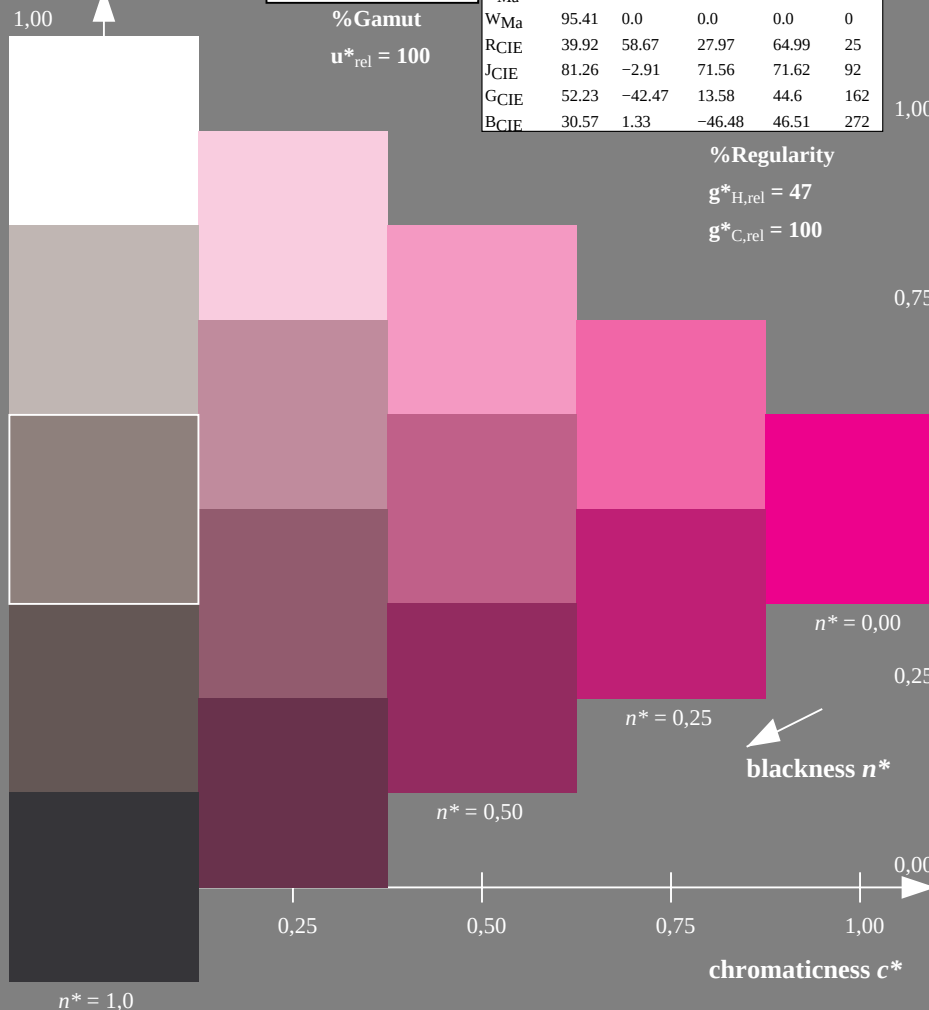
$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

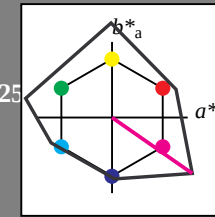
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

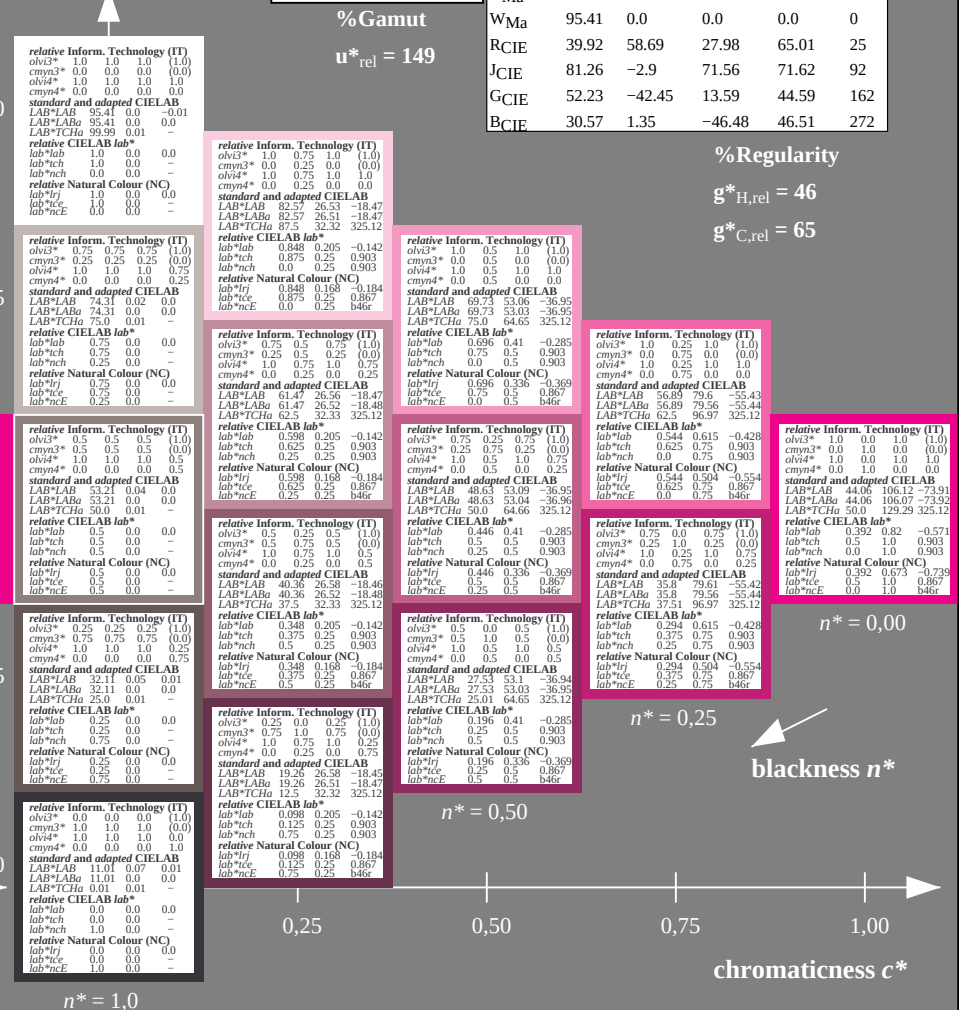
$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

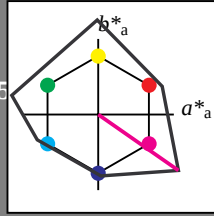
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

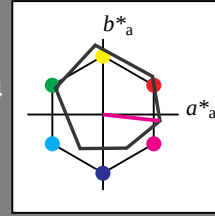
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.97	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	1.0	(1.0)	
cmyn3*	0.0	0.25	0.0	(0.0)	
olvi4*	1.0	0.75	1.0	(1.0)	
cmyn4*	0.0	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.59	18.06	1.87		
LAB*LABa	83.59	18.81	-2.08		
LAB*TCHa	87.5	16.92	353.66		

relative CIELAB lab*					
lab*lab	0.847	0.248	-0.027		
lab*tch	0.875	0.25	0.982		
lab*nch	0.0	0.25	0.982		
relative Natural Colour (NC)					
lab*trj	0.847	0.227	-0.103		
lab*tce	0.875	0.25	0.932		
lab*nce	0.0	0.25	0.72r		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.75	(1.0)	
cmyn3*	0.25	0.5	0.25	(0.0)	
olvi4*	1.0	0.75	1.0	(1.0)	
cmyn4*	0.0	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.24	18.43	0.56		
LAB*LABa	64.24	18.82	-2.08		
LAB*TCHa	62.5	18.93	353.66		

relative CIELAB lab*					
lab*lab	0.597	0.248	-0.027		
lab*tch	0.625	0.25	0.982		
lab*nch	0.25	0.25	0.982		
relative Natural Colour (NC)					
lab*trj	0.597	0.227	-0.103		
lab*tce	0.625	0.25	0.932		
lab*nce	0.25	0.25	0.72r		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.5	(1.0)	
cmyn3*	0.5	0.25	0.5	(0.0)	
olvi4*	1.0	0.75	1.0	(1.0)	
cmyn4*	0.0	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.42	37.48	-2.31		
LAB*LABa	52.42	37.63	-4.17		
LAB*TCHa	50.0	37.86	353.66		

relative CIELAB lab*					
lab*lab	0.445	0.497	-0.054		
lab*tch	0.445	0.5	0.982		
lab*nch	0.25	0.5	0.982		
relative Natural Colour (NC)					
lab*trj	0.445	0.454	-0.208		
lab*tce	0.445	0.5	0.932		
lab*nce	0.25	0.5	0.72r		

relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.5	(1.0)	
cmyn3*	0.5	1.0	0.5	(0.0)	
olvi4*	1.0	0.5	1.0	(1.0)	
cmyn4*	0.0	0.5	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.08	37.84	-3.62		
LAB*LABa	33.08	37.63	-4.17		
LAB*TCHa	25.01	37.86	353.66		

	LAB* <i>tCh</i>	12.5	18.92	35.3
	relative CIELAB <i>lab</i> *			
	<i>lab</i> * <i>lab</i>	0.097	0.248	-0.0
	<i>lab</i> * <i>tch</i>	0.125	0.25	0.98
	<i>lab</i> * <i>nch</i>	0.75	0.25	0.98
	relative Natural Colour (NC)			
	<i>lab</i> * <i>lrj</i>	0.097	0.227	-0.9
	<i>lab</i> * <i>tce</i>	0.125	0.25	0.93
	<i>lab</i> * <i>nce</i>	0.75	0.25	b72

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

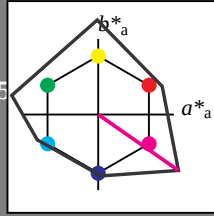
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

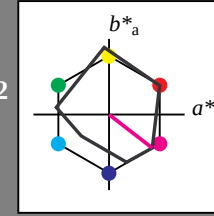
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

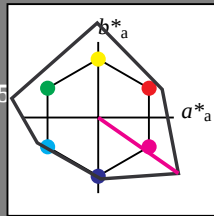
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

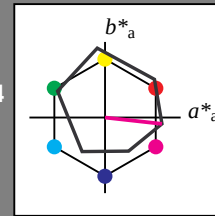
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.97	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

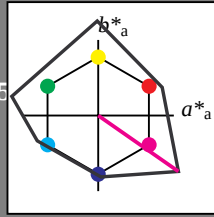
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

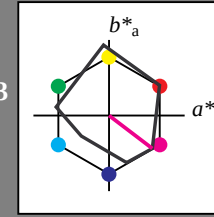
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 323/360 = 0.896 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

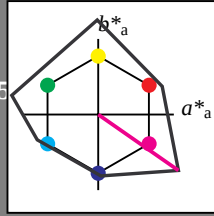
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

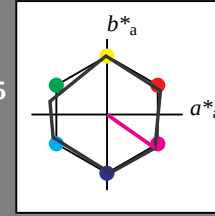
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

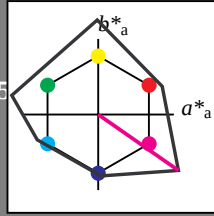
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

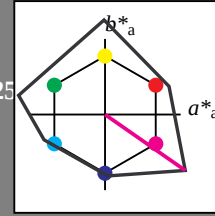
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

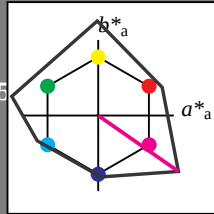
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

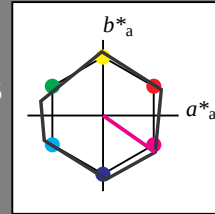
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

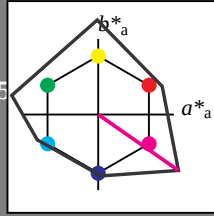
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

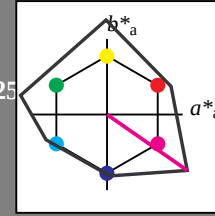
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

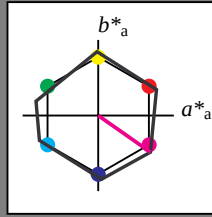
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

1,00

0,75

0,25

0,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

$n^* = 0,00$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

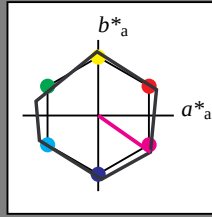
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

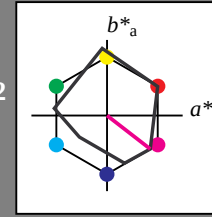
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

lab^*tch and lab^*nch

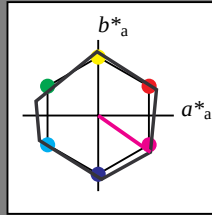
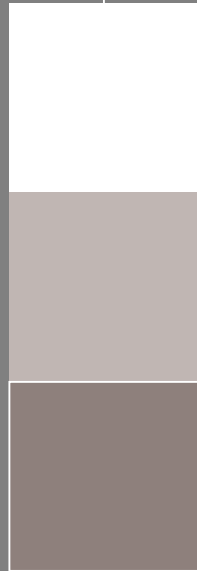
D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 354/360 = 0.982$

lab^*tch and lab^*nch

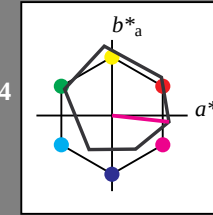
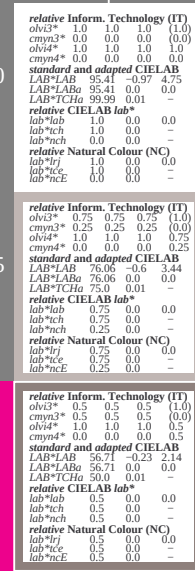
D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

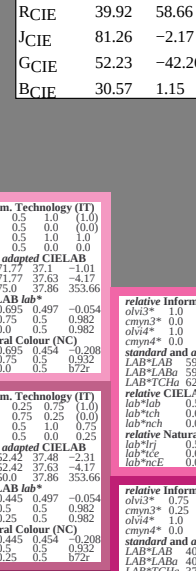
relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.59	18.06	1.87		
LAB*LABa	83.59	18.81	-2.08		
LAB*TCHa	87.5	16.92	353.66		
relative CIELAB lab*					
lab*lab	0.847	0.248	-0.027		
lab*ch	0.875	0.25	0.982		
lab*nch	0.0	0.25	0.982		
relative Natural Colour (NC)					
lab*trj	0.847	0.227	-0.103		
lab*nce	0.875	0.25	0.932		
lab*nce	0.0	0.25	0.72r		
relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.75	(1.0)	
cmyn3*	0.25	0.5	0.25	(0.0)	
olvi4*	1.0	0.5	1.0	(1.0)	
cmyn4*	0.0	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.24	18.43	0.56		
LAB*LABa	64.24	18.82	-2.08		
LAB*TCHa	62.5	18.93	353.66		
relative CIELAB lab*					
lab*lab	0.597	0.248	-0.027		
lab*ch	0.625	0.25	0.982		
lab*nch	0.25	0.25	0.982		
relative Natural Colour (NC)					
lab*trj	0.597	0.227	-0.103		
lab*nce	0.625	0.25	0.932		
lab*nce	0.25	0.25	0.72r		
relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.5	(1.0)	
cmyn3*	0.5	0.25	0.5	(0.0)	
olvi4*	1.0	0.75	1.0	(1.0)	
cmyn4*	0.0	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.42	37.48	-2.31		
LAB*LABa	52.42	37.63	-4.17		
LAB*TCHa	50.0	37.86	353.66		
relative CIELAB lab*					
lab*lab	0.445	0.497	-0.054		
lab*ch	0.445	0.5	0.982		
lab*nch	0.25	0.5	0.982		
relative Natural Colour (NC)					
lab*trj	0.445	0.454	-0.208		
lab*nce	0.5	0.5	0.932		
lab*nce	0.25	0.5	0.72r		
relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.5	(1.0)	
cmyn3*	0.5	1.0	0.5	(0.0)	
olvi4*	1.0	0.5	1.0	(1.0)	
cmyn4*	0.0	0.5	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.08	37.84	-3.62		
LAB*LABa	33.08	37.63	-4.17		
LAB*TCHa	25.01	37.86	353.66		
relative CIELAB lab*					
lab*lab	0.195	0.497	-0.054		
lab*ch	0.25	0.5	0.982		
lab*nch	0.5	0.5	0.982		
relative Natural Colour (NC)					
lab*trj	0.195	0.454	-0.208		
lab*nce	0.25	0.5	0.932		
lab*nce	0.5	0.5	0.72r		
relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.25	(1.0)	
cmyn3*	0.75	1.0	0.75	(0.0)	
olvi4*	1.0	0.75	1.0	(1.0)	
cmyn4*	0.0	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.54	19.17	-2.04		
LAB*LABa	25.54	18.81	-2.08		
LAB*TCHa	12.5	18.92	353.66		
relative CIELAB lab*					
lab*lab	0.097	0.248	-0.027		
lab*ch	0.125	0.25	0.982		
lab*nch	0.75	0.25	0.982		
relative Natural Colour (NC)					
lab*trj	0.097	0.227	-0.103		
lab*nce	0.125	0.25	0.932		
lab*nce	0.75	0.25	0.72r		

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



relative Inform. Technology (IT)				
olvi3*	1.0	0.25	1.0	(1.0)
cmyn3*	0.0	0.75	0.0	(0.0)
olvi4*	1.0	0.25	1.0	(1.0)
cmyn4*	0.0	0.75	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	40.61	56.14	-3.9	
LAB*LABa	40.61	56.44	-6.26	
LAB*LABb	59.95	56.79	-35.06	
LAB*Cb	62.5	56.79	35.93	
relative CIELAB (L*)				
lab*lab	0.542	0.745	-0.062	
lab*lab*	0.625	0.75	0.982	
lab*lab*	0.625	0.75	0.982	
relative Natural Colour (NC)				
lab*lab	0.542	0.682	-0.312	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	
lab*lab*	0.625	0.75	0.932	

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

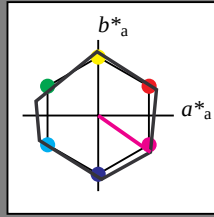
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R _{Ma}	53.2	77.06	34.32	84.36	24	
J _{Ma}	53.2	-1.51	84.38	84.39	91	
G _{Ma}	53.2	-82.27	18.98	84.44	167	
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203	
B _{Ma}	53.2	4.37	-84.28	84.41	273	
B50R _{Ma}	53.2	69.09	-48.41	84.37	325	
N _{Ma}	10.99	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

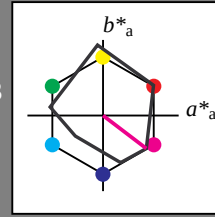
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R _{Ma}	49.63	66.8	40.02	77.87	31	
J _{Ma}	90.7	-7.27	93.19	93.48	94	
G _{Ma}	52.11	-69.93	11.26	70.85	171	
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217	
B _{Ma}	36.65	23.26	-62.27	66.49	290	
B50R _{Ma}	34.94	57.27	-43.6	71.99	323	
N _{Ma}	18.01	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 323/360 = 0.896 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

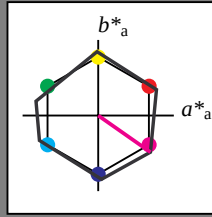
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

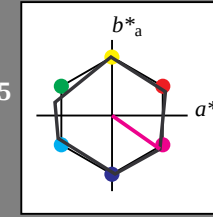
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

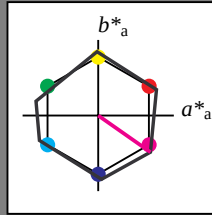
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

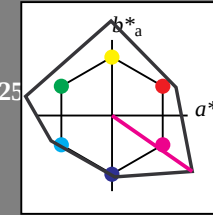
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

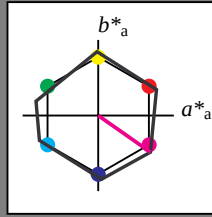
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

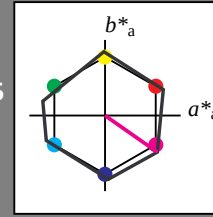
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

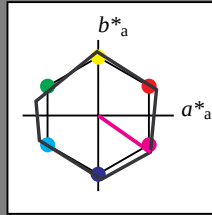
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

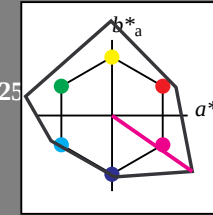
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

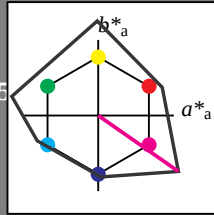
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

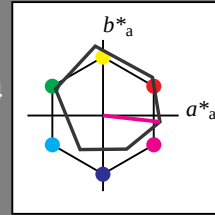
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

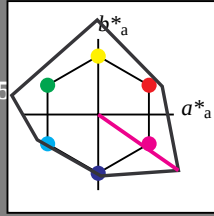
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

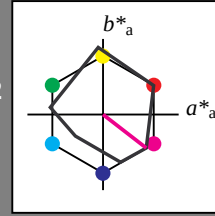
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

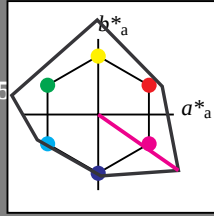
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

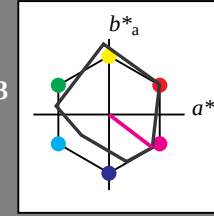
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.0	0.0	(0.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	60.94	0.0	0.0		
LAB*LABa	60.94	0.0	0.0		
LAB*TCHa	60.94	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	41.59	0.0	0.0		
LAB*LABa	41.59	0.0	0.0		
LAB*TCHa	37.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.0	0.0		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	22.25	0.0	0.0		
LAB*LABa	22.25	0.0	0.0		
LAB*TCHa	12.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 323/360 = 0.896 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	1.0	(1.0)	
cmyn3*	0.0	0.25	0.0	(0.0)	
olvi4*	1.0	0.75	1.0	(1.0)	
cmyn4*	0.0	0.25	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	80.25	14.34	-10.89		
LAB*LABa	80.25	14.31	-10.89		
LAB*TCHa	87.5	17.99	322.71		
relative CIELAB lab*					
lab*lab	0.805	0.199	-0.15		
lab*ch	0.875	0.25	0.896		
lab*nch	0.0	0.25	0.896		
relative Natural Colour (NC)					
lab*trj	0.805	0.152	-0.189		
lab*nce	0.0	0.25	0.896		

relative CIELAB lab*			
lab*lab	0.805	0.199	-0.001
lab*tch	0.875	0.25	0.001
lab*nc	0.0	0.25	0.001
relative Natural Colour (NC)			
lab*lrj	0.805	0.162	-0.001
lab*tce	0.875	0.25	0.001
lab*nce	0.0	0.25	0.001

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

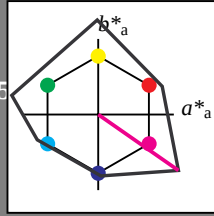
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 325/360 = 0.903$

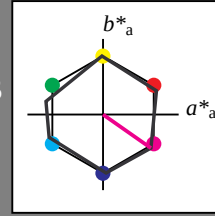
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

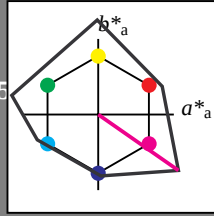
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 325/360 = 0.903$

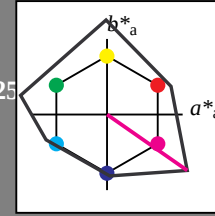
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 -0.01

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0

lab*tce 0.0 0.0 0.0

lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.07 0.0 0.0

LAB*LABa 76.07 0.0 0.0

LAB*LABb 76.07 0.0 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*tch 0.75 0.0 0.0

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.75 0.0 0.0

lab*tce 0.0 0.0 0.0

lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 1.0 0.75 1.0 (1.0)

cmyn3* 0.0 0.25 0.0 (0.0)

olvi4* 1.0 0.75 1.0 (1.0)

cmyn4* 0.0 0.25 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 82.57 26.53 -18.47

LAB*LABa 82.57 26.51 -18.47

LAB*LABb 82.57 26.51 -18.47

relative CIELAB lab*

lab*lab 0.834 0.205 -0.142

lab*tch 0.875 0.25 0.903

lab*nch 0.0 0.25 0.903

relative Natural Colour (NC)

lab*trj 0.834 0.168 -0.184

lab*tce 0.834 0.25 0.867

lab*nce 0.0 0.25 0.867

relative Inform. Technology (IT)

olvi3* 0.75 0.5 0.75 (1.0)

cmyn3* 0.25 0.5 0.25 (0.0)

olvi4* 1.0 0.5 1.0 (1.0)

cmyn4* 0.0 0.25 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 63.22 26.56 -18.47

LAB*LABa 63.22 26.52 -18.48

LAB*LABb 63.22 26.52 -18.48

relative CIELAB lab*

lab*lab 0.584 0.205 -0.142

lab*tch 0.625 0.25 0.903

lab*nch 0.25 0.25 0.903

relative Natural Colour (NC)

lab*trj 0.584 0.168 -0.184

lab*tce 0.625 0.25 0.867

lab*nce 0.25 0.25 0.867

relative Inform. Technology (IT)

olvi3* 1.0 0.5 1.0 (1.0)

cmyn3* 0.0 0.5 0.0 (0.0)

olvi4* 1.0 0.5 1.0 (1.0)

cmyn4* 0.0 0.5 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 69.73 53.06 -36.95

LAB*LABa 69.73 53.03 -36.96

LAB*LABb 69.73 53.03 -36.96

relative CIELAB lab*

lab*lab 0.668 0.41 -0.285

lab*tch 0.75 0.5 0.903

lab*nch 0.0 0.5 0.903

relative Natural Colour (NC)

lab*trj 0.668 0.336 -0.369

lab*tce 0.75 0.5 0.867

lab*nce 0.0 0.5 0.867

relative Inform. Technology (IT)

olvi3* 0.75 0.25 0.75 (1.0)

cmyn3* 0.25 0.75 0.25 (0.0)

olvi4* 1.0 0.25 1.0 (1.0)

cmyn4* 0.0 0.25 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 50.38 53.1 -36.95

LAB*LABa 50.38 53.04 -36.97

LAB*LABb 50.38 53.04 -36.97

relative CIELAB lab*

lab*lab 0.418 0.41 -0.285

lab*tch 0.418 0.41 -0.285

lab*nch 0.0 0.41 0.903

relative Natural Colour (NC)

lab*trj 0.418 0.336 -0.369

lab*tce 0.5 0.5 0.867

lab*nce 0.25 0.5 0.867

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

UE400-7, 5 step scales for constant CIEL

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

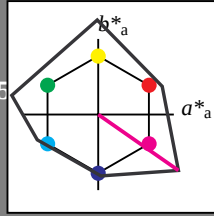
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

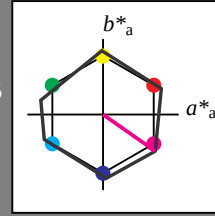
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

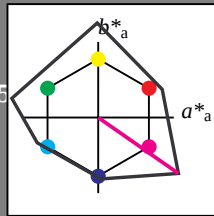
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$

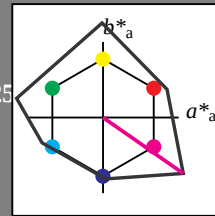
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness



%Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0
relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.0 0.0
LAB*LABa 74.31 0.0 0.0
LAB*LABb 74.31 0.0 0.0
LAB*LABc 74.31 0.0 0.0
relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.0 0.0
LAB*LABa 53.21 0.0 0.0
LAB*LABb 53.21 0.0 0.0
LAB*LABc 53.21 0.0 0.0
relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*LABa 32.11 0.0 0.0
LAB*LABb 32.11 0.0 0.0
LAB*LABc 32.11 0.0 0.0
relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*LABb 11.01 0.0 0.0
LAB*LABc 11.01 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 1.0 0.75 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 1.0 0.75 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.57 26.53 -18.47
LAB*LABa 82.57 26.51 -18.47
LAB*LABb 82.57 26.51 -18.47
LAB*LABc 82.57 26.51 -18.47
relative CIELAB lab*
lab*lab 0.848 0.205 -0.142
lab*tch 0.875 0.25 0.903
lab*nch 0.0 0.5 0.903
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.73 53.06 -36.95
LAB*LABa 69.73 53.03 -36.95
LAB*LABb 69.73 53.03 -36.95
LAB*LABc 69.73 53.03 -36.95
relative CIELAB lab*
lab*lab 0.696 0.41 -0.285
lab*tch 0.75 0.5 0.903
lab*nch 0.0 0.5 0.903
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.89 79.56 -55.44
LAB*LABa 56.89 79.56 -55.44
LAB*LABb 56.89 79.56 -55.44
LAB*LABc 56.89 79.56 -55.44
relative CIELAB lab*
lab*lab 0.544 0.392 -0.428
lab*tch 0.625 0.75 0.903
lab*nch 0.0 0.75 0.903
cmyn4* 0.0 0.75 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 44.06 106.07 -73.91
LAB*LABa 44.06 106.07 -73.91
LAB*LABb 44.06 106.07 -73.91
LAB*LABc 44.06 106.07 -73.91
relative CIELAB lab*
lab*lab 0.446 0.41 -0.285
lab*tch 0.625 0.75 0.903
lab*nch 0.0 0.75 0.903
cmyn4* 0.0 0.75 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 35.8 79.56 -55.44
LAB*LABa 35.8 79.56 -55.44
LAB*LABb 35.8 79.56 -55.44
LAB*LABc 35.8 79.56 -55.44
relative CIELAB lab*
lab*lab 0.294 0.392 -0.428
lab*tch 0.5 0.5 0.903
lab*nch 0.0 0.5 0.903
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.01 64.65 325.12
LAB*LABa 25.01 64.65 325.12
LAB*LABb 25.01 64.65 325.12
LAB*LABc 25.01 64.65 325.12
relative CIELAB lab*
lab*lab 0.196 0.41 -0.285
lab*tch 0.25 0.5 0.903
lab*nch 0.0 0.5 0.903
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 12.5 32.32 325.12
LAB*LABa 12.5 32.32 325.12
LAB*LABb 12.5 32.32 325.12
LAB*LABc 12.5 32.32 325.12
relative CIELAB lab*
lab*lab 0.098 0.205 -0.142
lab*tch 0.125 0.25 0.903
lab*nch 0.0 0.25 0.903
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.98 0.184 -0.184
LAB*LABa 0.98 0.184 -0.184
LAB*LABb 0.98 0.184 -0.184
LAB*LABc 0.98 0.184 -0.184
relative CIELAB lab*
lab*lab 0.098 0.184 -0.184
lab*tch 0.125 0.25 0.903
lab*nch 0.0 0.25 0.903
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.75 (1.0)
cmyn3* 0.25 0.5 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 61.47 26.56 -18.47
LAB*LABa 61.47 26.52 -18.48
LAB*LABb 61.47 26.52 -18.48
LAB*LABc 61.47 26.52 -18.48
relative CIELAB lab*
lab*lab 0.598 0.205 -0.142
lab*tch 0.625 0.25 0.903
lab*nch 0.25 0.25 0.903
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.63 53.08 -36.95
LAB*LABa 48.63 53.04 -36.96
LAB*LABb 48.63 53.04 -36.96
LAB*LABc 48.63 53.04 -36.96
relative CIELAB lab*
lab*lab 0.446 0.41 -0.285
lab*tch 0.5 0.5 0.903
lab*nch 0.25 0.5 0.903
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 35.8 79.56 -55.44
LAB*LABa 35.8 79.56 -55.44
LAB*LABb 35.8 79.56 -55.44
LAB*LABc 35.8 79.56 -55.44
relative CIELAB lab*
lab*lab 0.294 0.392 -0.428
lab*tch 0.5 0.5 0.903
lab*nch 0.25 0.5 0.903
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.01 64.65 325.12
LAB*LABa 25.01 64.65 325.12
LAB*LABb 25.01 64.65 325.12
LAB*LABc 25.01 64.65 325.12
relative CIELAB lab*
lab*lab 0.196 0.41 -0.285
lab*tch 0.25 0.5 0.903
lab*nch 0.25 0.5 0.903
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 12.5 32.32 325.12
LAB*LABa 12.5 32.32 325.12
LAB*LABb 12.5 32.32 325.12
LAB*LABc 12.5 32.32 325.12
relative CIELAB lab*
lab*lab 0.098 0.205 -0.142
lab*tch 0.125 0.25 0.903
lab*nch 0.25 0.25 0.903
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.98 0.184 -0.184
LAB*LABa 0.98 0.184 -0.184
LAB*LABb 0.98 0.184 -0.184
LAB*LABc 0.98 0.184 -0.184
relative CIELAB lab*
lab*lab 0.098 0.184 -0.184
lab*tch 0.125 0.25 0.903
lab*nch 0.25 0.25 0.903
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.0 0.0
LAB*LABa 53.21 0.0 0.0
LAB*LABb 53.21 0.0 0.0
LAB*LABc 53.21 0.0 0.0
relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*LABa 32.11 0.0 0.0
LAB*LABb 32.11 0.0 0.0
LAB*LABc 32.11 0.0 0.0
relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 -

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

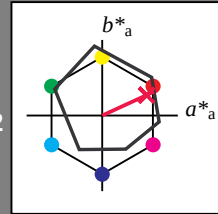
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

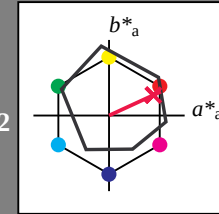
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

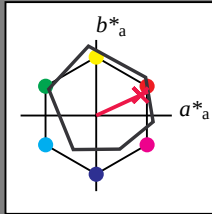
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

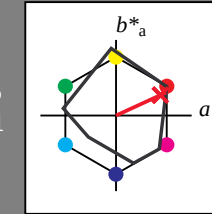
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
CMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

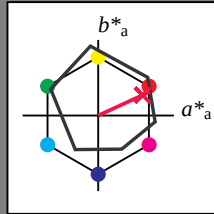
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

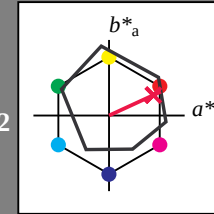
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

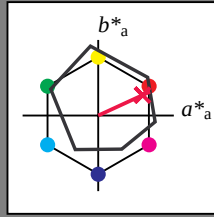
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



ORS18; adapted (a) CIELAB data	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

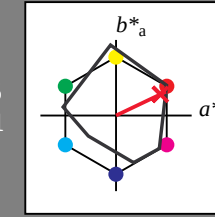
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



MRS18a; adapted (a) CIELAB data	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

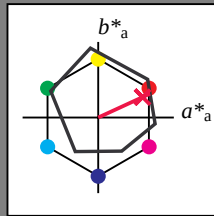
↑

1,00

↑

1,00

↑



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

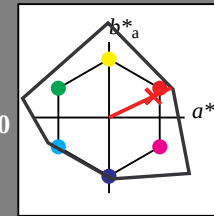
↑

1,00

↑

1,00

↑



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
CMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

1,00

↑

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

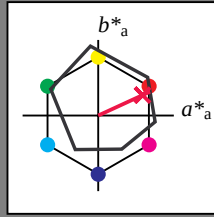
$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

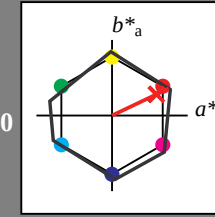
$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

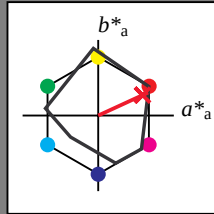
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

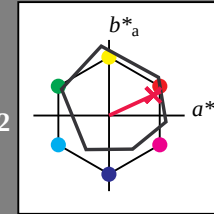
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

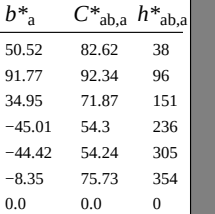
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

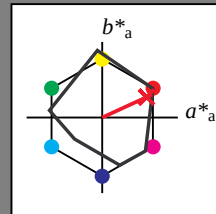
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

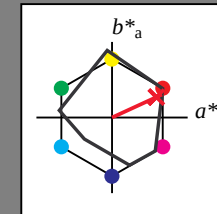
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

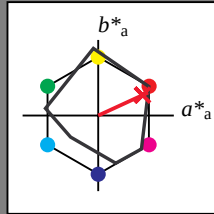
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

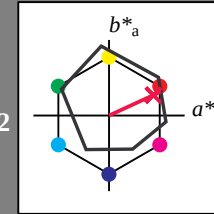
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

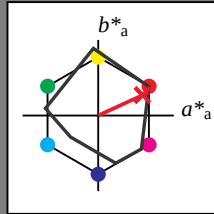
$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

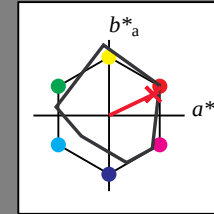
$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

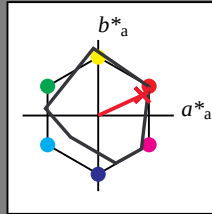
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

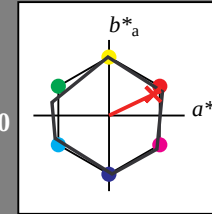
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

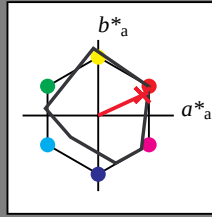
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

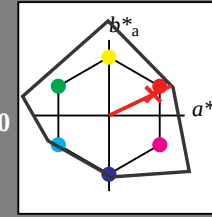
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

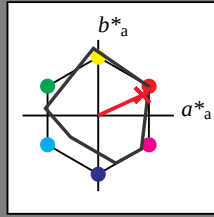
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

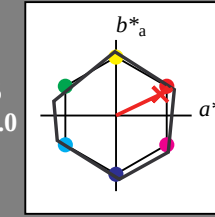
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,2

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

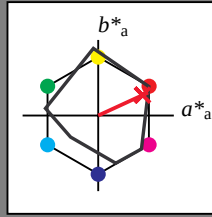
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

1,00

0,75

0,25

0,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,25$

$n^* = 1,50$

$n^* = 1,75$

$n^* = 2,00$

$n^* = 2,25$

$n^* = 2,50$

$n^* = 2,75$

$n^* = 3,00$

$n^* = 3,25$

$n^* = 3,50$

$n^* = 3,75$

$n^* = 4,00$

$n^* = 4,25$

$n^* = 4,50$

$n^* = 4,75$

$n^* = 5,00$

$n^* = 5,25$

$n^* = 5,50$

$n^* = 5,75$

$n^* = 6,00$

$n^* = 6,25$

$n^* = 6,50$

$n^* = 6,75$

$n^* = 7,00$

$n^* = 7,25$

$n^* = 7,50$

$n^* = 7,75$

$n^* = 8,00$

$n^* = 8,25$

$n^* = 8,50$

$n^* = 8,75$

$n^* = 9,00$

$n^* = 9,25$

$n^* = 9,50$

$n^* = 9,75$

$n^* = 10,00$

$n^* = 10,25$

$n^* = 10,50$

$n^* = 10,75$

$n^* = 11,00$

$n^* = 11,25$

$n^* = 11,50$

$n^* = 11,75$

$n^* = 12,00$

$n^* = 12,25$

$n^* = 12,50$

$n^* = 12,75$

$n^* = 13,00$

$n^* = 13,25$

$n^* = 13,50$

$n^* = 13,75$

$n^* = 14,00$

$n^* = 14,25$

$n^* = 14,50$

$n^* = 14,75$

$n^* = 15,00$

$n^* = 15,25$

$n^* = 15,50$

$n^* = 15,75$

$n^* = 16,00$

$n^* = 16,25$

$n^* = 16,50$

$n^* = 16,75$

$n^* = 17,00$

$n^* = 17,25$

$n^* = 17,50$

$n^* = 17,75$

$n^* = 18,00$

$n^* = 18,25$

$n^* = 18,50$

$n^* = 18,75$

$n^* = 19,00$

$n^* = 19,25$

$n^* = 19,50$

$n^* = 19,75$

$n^* = 20,00$

$n^* = 20,25$

$n^* = 20,50$

$n^* = 20,75$

$n^* = 21,00$

$n^* = 21,25$

$n^* = 21,50$

$n^* = 21,75$

$n^* = 22,00$

$n^* = 22,25$

$n^* = 22,50$

$n^* = 22,75$

$n^* = 23,00$

$n^* = 23,25$

$n^* = 23,50$

$n^* = 23,75$

$n^* = 24,00$

$n^* = 24,25$

$n^* = 24,50$

$n^* = 24,75$

$n^* = 25,00$

$n^* = 25,25$

$n^* = 25,50$

$n^* = 25,75$

$n^* = 26,00$

$n^* = 26,25$

$n^* = 26,50$

$n^* = 26,75$

$n^* = 27,00$

$n^* = 27,25$

$n^* = 27,50$

$n^* = 27,75$

$n^* = 28,00$

$n^* = 28,25$

$n^* = 28,50$

$n^* = 28,75$

$n^* = 29,00$

$n^* = 29,25$

$n^* = 29,50$

$n^* = 29,75$

$n^* = 30,00$

$n^* = 30,25$

$n^* = 30,50$

$n^* = 30,75$

$n^* = 31,00$

$n^* = 31,25$

$n^* = 31,50$

$n^* = 31,75$

$n^* = 32,00$

$n^* = 32,25$

$n^* = 32,50$

$n^* = 32,75$

$n^* = 33,00$

$n^* = 33,25$

$n^* = 33,50$

$n^* = 33,75$

$n^* = 34,00$

$n^* = 34,25$

$n^* = 34,50$

$n^* = 34,75$

$n^* = 35,00$

$n^* = 35,25$

$n^* = 35,50$

$n^* = 35,75$

$n^* = 36,00$

$n^* = 36,25$

$n^* = 36,50$

$n^* = 36,75$

$n^* = 37,00$

$n^* = 37,25$

$n^* = 37,50$

$n^* = 37,75$

$n^* = 38,00$

$n^* = 38,25$

$n^* = 38,50$

$n^* = 38,75$

$n^* = 39,00$

$n^* = 39,25$

$n^* = 39,50$

$n^* = 39,75$

$n^* = 40,00$

$n^* = 40,25$

$n^* = 40,50$

$n^* = 40,75$

$n^* = 41,00$

$n^* = 41,25$

$n^* = 41,50$

$n^* = 41,75$

$n^* = 42,00$

$n^* = 42,25$

$n^* = 42,50$

$n^* = 42,75$

$n^* = 43,00$

$n^* = 43,25$

$n^* = 43,50$

$n^* = 43,75$

$n^* = 44,00$

$n^* = 44,25$

$n^* = 44,50$

$n^* = 44,75$

$n^* = 45,00$

$n^* = 45,25$

$n^* = 45,50$

$n^* = 45,75$

$n^* = 46,00$

$n^* = 46,25$

$n^* = 46,50$

$n^* = 46,75$

$n^* = 47,00$

$n^* = 47,25$

$n^* = 47,50$

$n^* = 47,75$

$n^* = 48,00$

$n^* = 48,25$

$n^* = 48,50$

$n^* = 48,75$

$n^* = 49,00$

$n^* = 49,25$

$n^* = 49,50$

$n^* = 49,75$

$n^* = 50,00$

$n^* = 50,25$

$n^* = 50,50$

$n^* = 50,75$

$n^* = 51,00$

$n^* = 51,25$

$n^* = 51,50$

$n^* = 51,75$

</

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

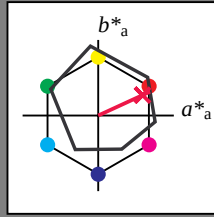
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

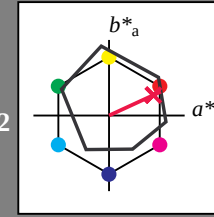
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

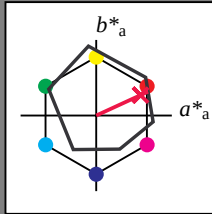
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

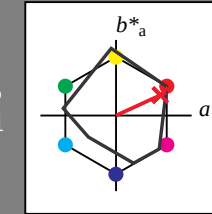
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
CMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

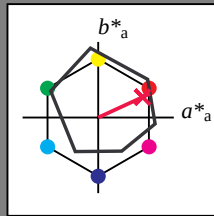
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

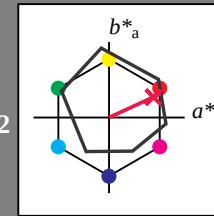
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

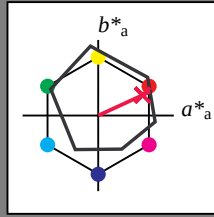
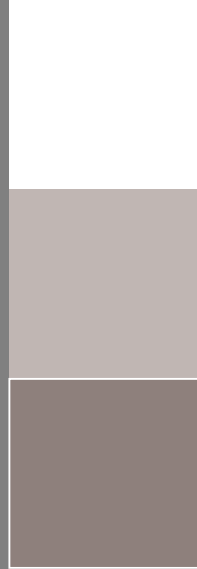
D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue $25/360 = 0.069$ (left)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

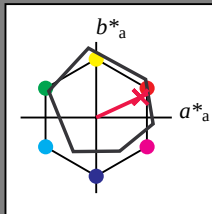
LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

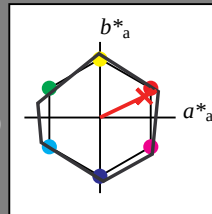
LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

% Gamut

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

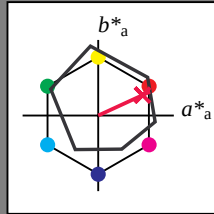
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

0,00

chromaticness c^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

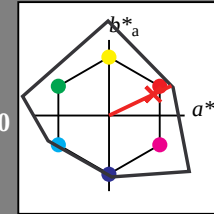
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*LABa = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 74.31$
 $LAB^*LABa = 74.31$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 53.21$
 $LAB^*LABa = 53.21$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*LABa = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 74.31$
 $LAB^*LABa = 74.31$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 53.21$
 $LAB^*LABa = 53.21$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 11.01$
 $LAB^*LABa = 11.01$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 32.11$
 $LAB^*LABa = 32.11$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 lab

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

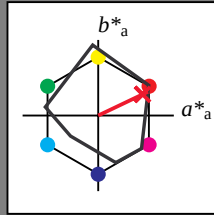
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

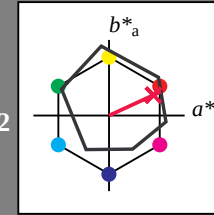
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

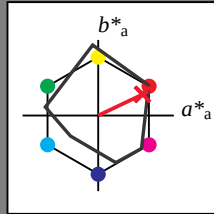
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

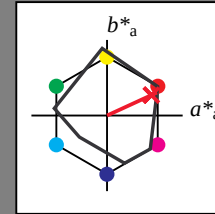
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

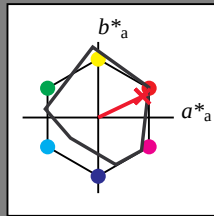
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

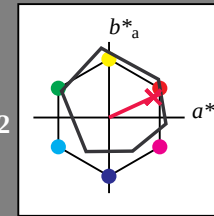
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

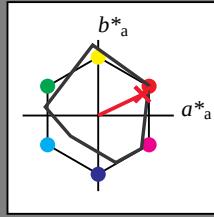
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

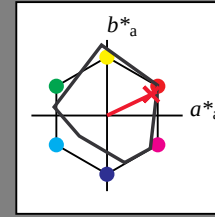
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

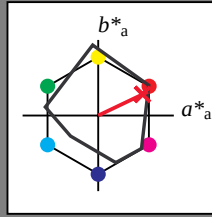
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

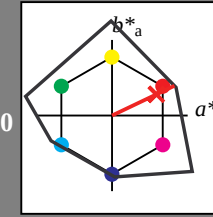
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0	-	
LAB*LABa	76.07	0.0	0.0	-	
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.848	0.226	0.108		
lab*ch	0.875	0.25	0.071		
lab*nch	0.0	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.948	0.25	0.0		
lab*nce	0.0	0.25	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.506	0.5	(1.0)	
cmyn3*	0.25	0.494	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.244	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.26	20.68	9.84		
LAB*LABa	64.26	20.64	9.84		
LAB*TC _{Ma}	62.5	22.87	25.49		
relative CIELAB lab*					
lab*lab	0.598	0.226	0.108		
lab*ch	0.625	0.25	0.071		
lab*nch	0.25	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.598	0.25	0.0		
lab*nce	0.25	0.25	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.256	0.25	(1.0)	
cmyn3*	0.5	0.744	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.244	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0	-	
LAB*LABa	56.72	0.0	0.0	-	
LAB*TC _{Ma}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.07	0.01		
LAB*LABa	37.37	0.0	0.0		
LAB*TC _{Ma}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.006	0.0	(1.0)	
cmyn3*	0.75	0.994	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.244	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.56	20.73	9.85		
LAB*LABa	25.56	20.64	9.84		
LAB*TC _{Ma}	12.5	22.86	25.46		
relative CIELAB lab*					
lab*lab	0.098	0.226	0.107		
lab*ch	0.125	0.25	0.071		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.098	0.25	0.0		
lab*nce	0.125	0.25	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.012	0.0	(1.0)	
cmyn3*	0.5	0.988	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.488	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.11	41.36	19.68		
LAB*LABa	33.11	41.28	19.67		
LAB*TC _{Ma}	25.01	45.73	25.47		
relative CIELAB lab*					
lab*lab	0.195	0.451	0.215		
lab*ch	0.25	0.5	0.071		
lab*nch	0.5	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.195	0.5	0.0		
lab*nce	0.25	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.006	0.0	(1.0)	
cmyn3*	0.75	0.994	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.244	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.56	20.73	9.85		
LAB*LABa	25.56	20.64	9.84		
LAB*TC _{Ma}	12.5	22.86	25.46		
relative CIELAB lab*					
lab*lab	0.098	0.226	0.107		
lab*ch	0.125	0.25	0.071		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.098	0.25	0.0		
lab*nce	0.125	0.25	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.012	0.0	(1.0)	
cmyn3*	0.5	0.988	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.488	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.11	41.36	19.68		
LAB*LABa	33.11	41.28	19.67		
LAB*TC _{Ma}	25.01	45.73	25.47		
relative CIELAB lab*					
lab*lab	0.195	0.451	0.215		
lab*ch	0.25	0.5	0.071		
lab*nch	0.5	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.195	0.5	0.0		
lab*nce	0.25	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.006	0.0	(1.0)	
cmyn3*	0.75	0.994	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.244	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.56	20.73	9.85		
LAB*LABa	25.56	20.64	9.84		
LAB*TC _{Ma}	12.5	22.86	25.46		
relative CIELAB lab*					
lab*lab	0.098	0.226	0.107		
lab*ch	0.125	0.25	0.071		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.098	0.25	0.0		
lab*nce	0.125	0.25	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.012	0.0	(1.0)	
cmyn3*	0.5	0.988	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.488	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.11	41.36	19.68		
LAB*LABa	33.11	41.28	19.67		
LAB*TC _{Ma}	25.01	4			

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

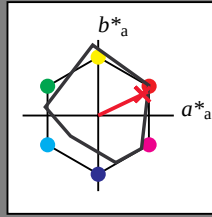
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

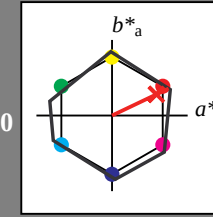
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

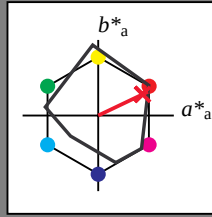
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

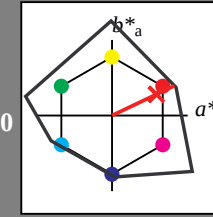
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

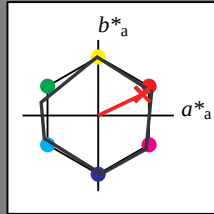
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

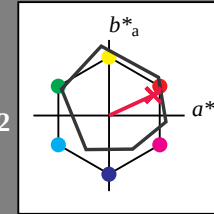
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

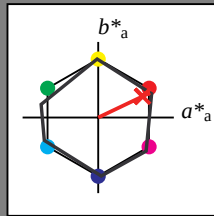
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

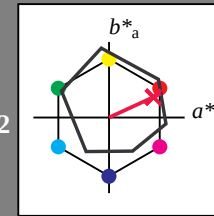
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

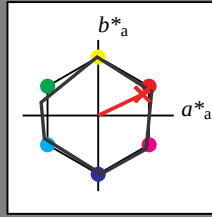
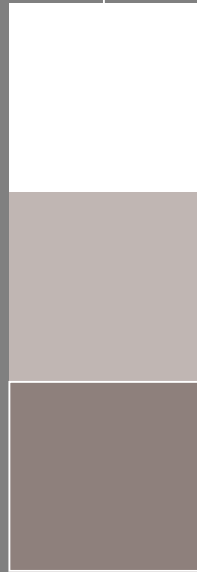
D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

0,00

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

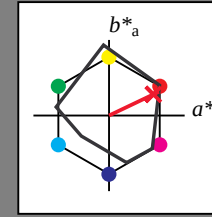
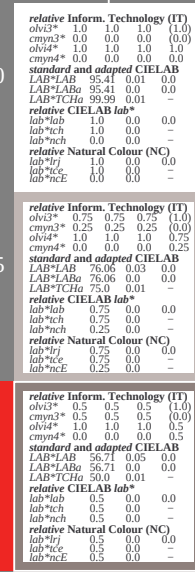
D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.847	0.226	0.108		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.526	(1.0)	
cmyn3*	0.25	0.5	0.474	(0.0)	
olvi4*	1.0	0.5	0.776	0.5	
cmyn4*	0.0	0.25	0.224	0.25	
standard and adapted CIELAB					
LAB*LAB	64.23	16.5	7.84		
LAB*LABa	64.23	16.45	7.84		
LAB*TCHa	62.5	18.23	25.49		
relative CIELAB lab*					
lab*lab	0.597	0.226	0.108		
lab*tch	0.625	0.25	0.071		
lab*nch	0.25	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.597	0.25	0.0		
lab*tce	0.625	0.25	1.0		
lab*nce	0.25	0.25	0.999		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.276	(1.0)	
cmyn3*	0.5	0.25	0.724	(0.0)	
olvi4*	1.0	0.75	0.776	0.5	
cmyn4*	0.0	0.25	0.224	0.5	
standard and adapted CIELAB					
LAB*LAB	44.88	16.45	7.84		
LAB*LABa	44.88	16.45	7.84		
LAB*TCHa	37.5	18.23	25.49		
relative CIELAB lab*					
lab*lab	0.347	0.226	0.108		
lab*tch	0.375	0.25	0.071		
lab*nch	0.5	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.347	0.25	0.0		
lab*tce	0.375	0.25	1.0		
lab*nce	0.5	0.25	0.999		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.026	(1.0)	
cmyn3*	0.75	1.0	0.974	(0.0)	
olvi4*	1.0	0.75	0.776	0.25	
cmyn4*	0.0	0.25	0.224	0.75	
standard and adapted CIELAB					
LAB*LAB	25.54	16.54	7.88		
LAB*LABa	25.54	16.45	7.85		
LAB*TCHa	12.5	18.22	25.51		
relative CIELAB lab*					
lab*lab	0.097	0.226	0.108		
lab*tch	0.125	0.25	0.071		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.097	0.25	0.0		
lab*tce	0.125	0.25	0.0		
lab*nce	0.75	0.25	0.001		

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	0.552	(1.0)	
cmyn3*	0.0	0.5	0.448	(0.0)	
olvi4*	1.0	0.5	0.552	1.0	
cmyn4*	0.0	0.5	0.448	0.0	
standard and adapted CIELAB					
LAB*LAB	71.76	32.94	15.69		
LAB*LABa	71.76	32.9	15.68		
LAB*TCHa	75.0	36.45	25.49		
relative CIELAB lab*					
lab*lab	0.694	0.451	0.215		
lab*tch	0.75	0.5	0.071		
lab*nch	0.0	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.694	0.5	0.0		
lab*tce	0.75	0.5	1.0		
lab*nce	0.0	0.5	0.999		

relative Inform. Technology (IT)					
olvi3*	0.75	0.25	0.302	(1.0)	
cmyn3*	0.25	0.75	0.698	(0.0)	
olvi4*	1.0	0.5	0.552	0.75	
cmyn4*	0.0	0.5	0.448	0.25	
standard and adapted CIELAB					
LAB*LAB	52.41	32.96	15.7		
LAB*LABa	52.41	32.91	15.69		
LAB*TCHa	50.0	36.45	25.49		
relative CIELAB lab*					
lab*lab	0.444	0.451	0.215		
lab*tch	0.5	0.5	0.071		
lab*nch	0.25	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.444	0.5	0.0		
lab*tce	0.5	0.5	1.0		
lab*nce	0.25	0.5	0.999		

relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.052	(1.0)	
cmyn3*	0.5	1.0	0.948	(0.0)	
olvi4*	1.0	0.5	0.552	0.5	
cmyn4*	0.0	0.5	0.448	0.5	
standard and adapted CIELAB					
LAB*LAB	33.07	32.96	15.72		
LAB*LABa	33.07	32.9	15.69		
LAB*TCHa	25.01	36.45	25.5		
relative CIELAB lab*					
lab*lab	0.195	0.451	0.215		
lab*tch	0.25	0.5	0.071		
lab*nch	0.5	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.195	0.5	0.0		
lab*tce	0.25	0.5	1.0		
lab*nce	0.5	0.5	0.001		

relative Inform. Technology (IT)					
olvi3*	1.0	0.25	0.328	(1.0)	
cmyn3*	0.0	0.75	0.672	(0.0)	
olvi4*	1.0	0.25	0.328	1.0	
cmyn4*	0.0	0.75	0.672	0.0	
standard and adapted CIELAB					
LAB*LAB	59.93	49.4	23.54		
LAB*LABa	59.93	49.35	23.53		
LAB*TCHa	62.5	54.67	25.49		
relative CIELAB lab*					
lab*lab	0.542	0.677	0.323		
lab*tch	0.625	0.75	0.071		
lab*nch	0.0	0.75	0.071		
relative Natural Colour (NC)					
lab*trj	0.542	0.75	0.0		
lab*tce	0.625	0.75	1.0		
lab*nce	0.0	0.75	0.999		

relative Inform. Technology (IT)				
olvi3*	0.75	0.0	0.078	(1.0)
cmyn3*	0.25	1.0	0.922	(0.0)
olvi4*	1.0	0.25	0.328	0.75
cmyn4*	0.0	0.75	0.672	0.25
standard and adapted CIELAB				
LAB*LAB	40.59	49.42	23.56	
LAB*LABa	40.59	49.35	23.54	
LAB*TCHa	37.51	54.68	25.5	
relative CIELAB lab*				
lab*lab	0.292	0.677	0.323	
lab*tch	0.375	0.75	0.071	
lab*nch	0.25	0.75	0.071	
relative Natural Colour (NC)				
lab*lab	0.292	0.75	0.0	
lab*tce	0.375	0.75	0.0	
lab*nce	0.25	0.75	0.0	

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

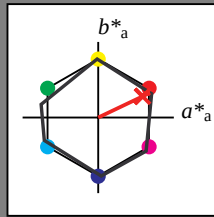
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

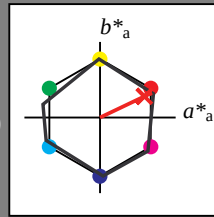
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

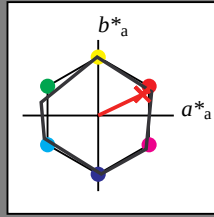
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

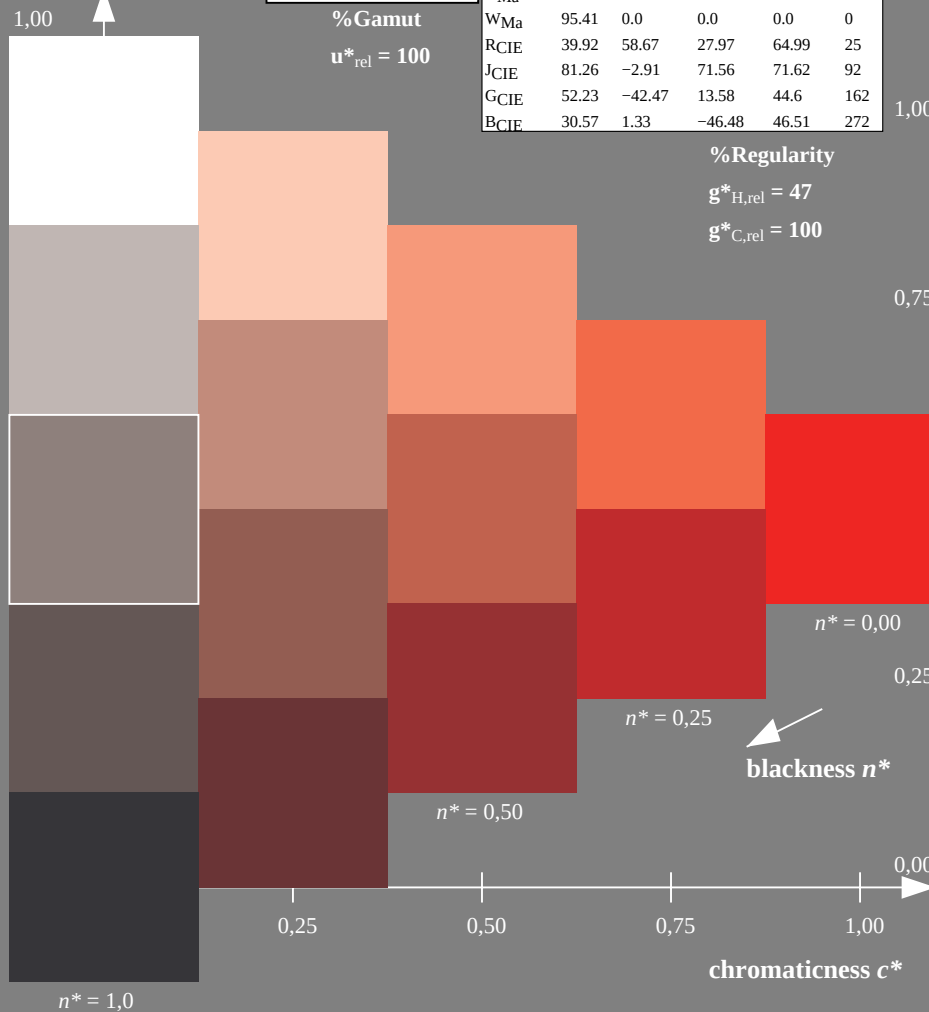


NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

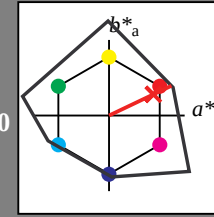
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

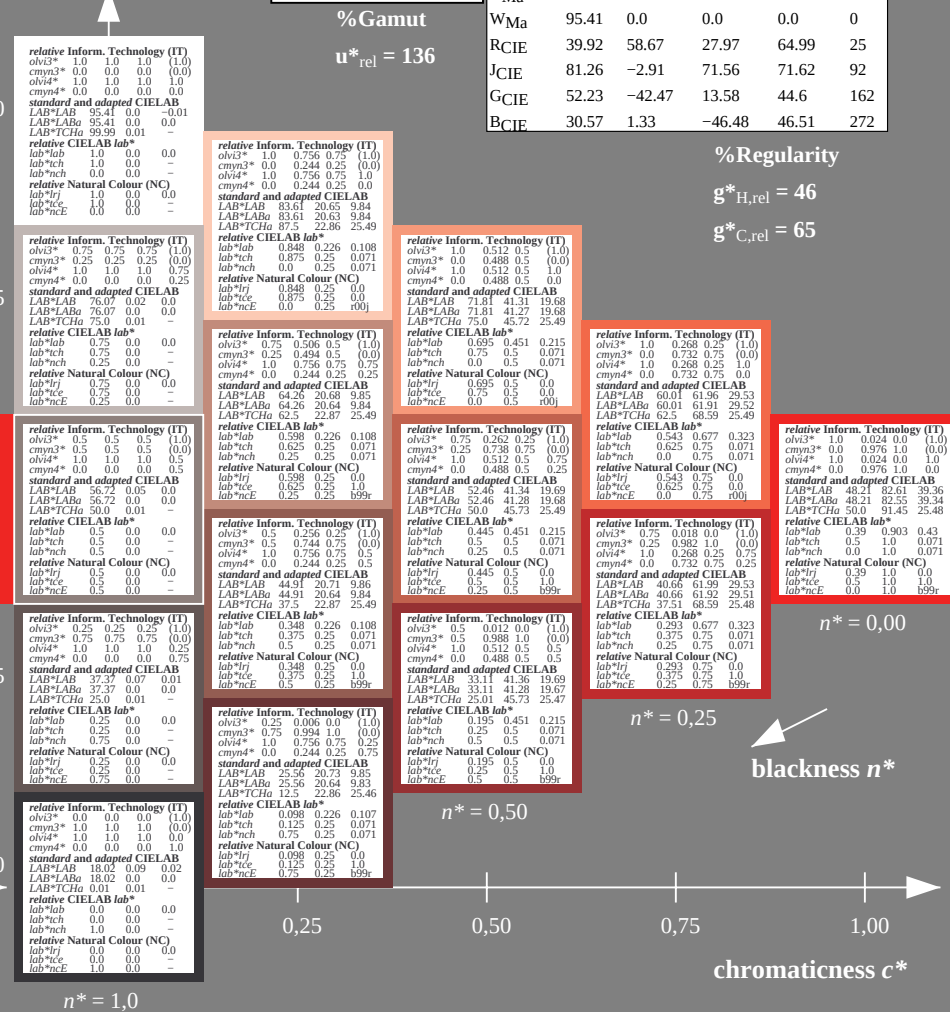


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

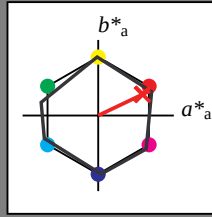
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	56.7	70.66	31.47	77.35	24	
JMa	56.7	-1.39	77.37	77.39	91	
GMa	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
NMa	18.01	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIE LAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

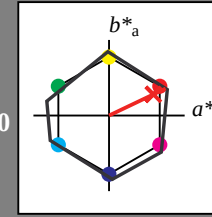
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



NRS11; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	53.2	77.06	34.32	84.36	24	
JMa	53.2	-1.51	84.38	84.39	91	
GMa	53.2	-82.27	18.98	84.44	167	
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203	
B _{Ma}	53.2	4.37	-84.28	84.41	273	
B50R _{Ma}	53.2	69.09	-48.41	84.37	325	
NMa	10.99	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIE LAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

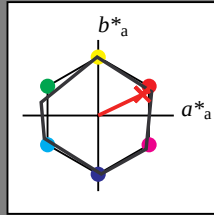
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

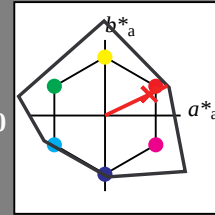
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 0,50$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

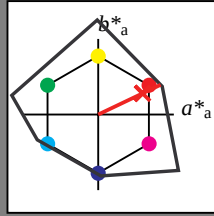
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

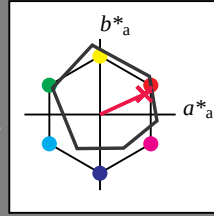
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.97	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	0.661	(1.0)	
cmyn3*	0.0	0.5	0.339	(0.0)	
olvi4*	1.0	0.5	0.661	(1.0)	
cmyn4*	0.0	0.5	0.339	(0.0)	
standard and adapted CIELAB					
LAB*LAB	71.7	33.75	18.92		
LAB*LABa	71.7	34.27	15.76		
LAB*TCBa	75.0	37.72	24.69		
relative CIELAB lab*					
lab*lab	0.694	0.454	0.209		
lab*lab	0.75	0.5	0.069		
lab*nch	0.0	0.5	0.069		
relative Natural Colour (NC)					
lab*trj	0.694	0.5	0.0		
lab*nce	0.75	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.25	0.471	(1.0)	
cmyn3*	0.25	0.75	0.589	(0.0)	
olvi4*	1.0	0.5	0.661	(1.0)	
cmyn4*	0.0	0.5	0.339	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.36	34.13	17.62		
LAB*LABa	52.36	34.28	15.77		
LAB*TCBa	50.0	37.73	24.7		
relative CIELAB lab*					
lab*lab	0.444	0.454	0.209		
lab*lab	0.5	0.5	0.069		
lab*nch	0.25	0.5	0.069		
relative Natural Colour (NC)					
lab*trj	0.444	0.5	0.0		
lab*nce	0.5	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.161	(1.0)	
cmyn3*	0.5	1.0	0.839	(0.0)	
olvi4*	1.0	0.5	0.661	(1.0)	
cmyn4*	0.0	0.5	0.339	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.01	34.49	16.31		
LAB*LABa	33.01	34.27	15.77		
LAB*TCBa	25.01	37.73	24.7		
relative CIELAB lab*					
lab*lab	0.194	0.454	0.209		
lab*lab	0.25	0.5	0.069		
lab*nch	0.5	0.5	0.069		
relative Natural Colour (NC)					
lab*trj	0.194	0.5	0.0		
lab*nce	0.25	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.081	(1.0)	
cmyn3*	0.75	1.0	0.919	(0.0)	
olvi4*	1.0	0.75	0.831	(1.0)	
cmyn4*	0.0	0.25	0.169	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.51	17.49	7.93		
LAB*LABa	25.51	17.13	7.88		
LAB*TCBa	12.5	18.86	24.71		
relative CIELAB lab*					
lab*lab	0.097	0.227	0.104		
lab*lab	0.125	0.25	0.069		
lab*nch	0.75	0.25	0.069		
relative Natural Colour (NC)					
lab*trj	0.097	0.25	0.0		
lab*nce	0.125	0.25	0.0		

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

relative Inform. Technology (IT)				
olvi3*	1.0	0.0	0.322	(1.0)
cmyn3*	0.0	1.0	0.678	(0.0)
olvi4*	1.0	0.0	0.323	1.0
cmyn4*	0.0	1.0	0.677	0.0
standard and adapted CIELAB				
LAB*LAB	48.01	68.48	33.09	
LAB*Labo	48.01	68.55	31.53	
Labo*Labo	50.0	75.45	24.7	
relative CIELAB lab*				
lab*lab	0.388	0.908	0.418	
lab*labch	0.5	1.0	0.659	
labch*labch	0.0	1.0	0.069	
relative Natural Colour (NC)				
lri*	0.388	1.0	0.0	
lce*	0.5	1.0	0.0	
lnc*	0.0	1.0	0.001	

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

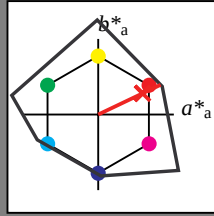
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

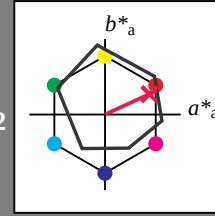
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.97	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.21	-0.7	10.54		
LAB*LABa	64.21	0.0	0.0		
LAB*TC _{Ha}	62.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.3	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	44.86	-0.13	0.83		
LAB*LABa	44.86	0.0	0.0		
LAB*TC _{Ha}	37.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	33.01	-0.01	0.01		
LAB*LABa	33.01	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.51	-0.01	0.01		
LAB*LABa	25.51	0.0	0.0		
LAB*TC _{Ha}	12.5	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	0.661	(1.0)	
cmyn3*	0.0	0.5	0.339	(0.0)	
olvi4*	1.0	0.5	0.661	(1.0)	
cmyn4*	0.0	0.5	0.339	(0.0)	
standard and adapted CIELAB					
LAB*LAB	71.7	33.75	18.92		
LAB*LABa	71.7	34.27	15.76		
LAB*TC _{Ha}	75.0	37.72	24.69		
relative CIELAB lab*					
lab*lab	0.694	0.454	0.209		
lab*ch	0.75	0.5	0.069		
lab*nch	0.0	0.5	0.069		
relative Natural Colour (NC)					
lab*trj	0.694	0.5	0.0		
lab*nce	0.75	0.5	0.0		

0.681	0.313	relative Inform. Tech
0.75	0.069	olvi3* 1.0 0.0
0.75	0.069	cmyn3* 0.0 1.0
0.75	0.069	olvi4* 1.0 0.0
0.75	0.069	cmyn4* 0.0 1.0
0.75	0.0	standard and adapted
0.75	1.0	LAB*LAB 48.01 6
0.75	b99r	LAB*LABa 48.01 6
0.75	b99r	LAB*TC _{Ha} 50.0 2
0.75	b99r	relative CIELAB lab*

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

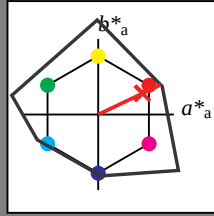
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

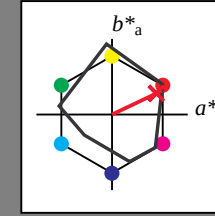
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	0.0

LAB*LAB	95.41	0.0	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TC _{Ha}	99.99	0.01	-

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	0.0

lab*trj	1.0	0.0	0.0
lab*tce	0.847	0.226	0.108
lab*nce	0.0	0.25	0.099

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

LAB*LAB	76.06	0.0	0.0
LAB*LABa	76.06	0.0	0.0
LAB*TC _{Ha}	75.0	0.01	-

lab*lab	0.75	0.0	0.0
lab*tch	0.75	0.0	-
lab*nch	0.25	0.0	0.5

lab*trj	0.597	0.226	0.108
lab*tce	0.625	0.25	0.099
lab*nce	0.25	0.25	0.099

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

LAB*LAB	56.71	0.0	0.0
LAB*LABa	56.71	0.0	0.0
LAB*TC _{Ha}	50.0	0.01	-

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	0.5

lab*trj	0.444	0.5	0.0
lab*tce	0.5	0.5	0.0
lab*nce	0.25	0.5	0.099

olvi3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.224	(0.0)
olvi4*	1.0	0.75	0.776	1.0
cmyn4*	0.0	0.25	0.224	0.0

LAB*LAB	83.58	16.47	7.84
LAB*LABa	83.58	16.45	7.84
LAB*TC _{Ha}	87.5	18.22	25.49

lab*lab	0.847	0.226	0.108
lab*tch	0.875	0.25	0.071
lab*nch	0.0	0.25	0.071

lab*trj	0.847	0.25	0.0
lab*tce	0.875	0.25	1.0
lab*nce	0.0	0.25	0.999

olvi3*	0.75	0.5	0.526	(1.0)
cmyn3*	0.25	0.5	0.474	(0.0)
olvi4*	1.0	0.75	0.776	0.5
cmyn4*	0.0	0.25	0.224	0.25

LAB*LAB	64.23	16.5	7.85
LAB*LABa	64.23	16.45	7.84
LAB*TC _{Ha}	62.5	18.23	25.49

lab*lab	0.597	0.226	0.108
lab*tch	0.625	0.25	0.071
lab*nch	0.25	0.25	0.071

lab*trj	0.597	0.25	0.0
lab*tce	0.625	0.25	1.0
lab*nce	0.25	0.25	0.999

olvi3*	0.5	0.25	0.276	(1.0)
cmyn3*	0.5	0.25	0.274	(0.0)
olvi4*	1.0	0.75	0.776	0.5
cmyn4*	0.0	0.25	0.224	0.5

LAB*LAB	44.88	16.45	7.84
LAB*LABa	44.88	16.45	7.84
LAB*TC _{Ha}	37.5	18.23	25.49

lab*lab	0.347	0.226	0.108
lab*tch	0.375	0.25	0.071
lab*nch	0.5	0.25	0.071

lab*trj	0.347	0.25	0.0
lab*tce	0.375	0.25	1.0
lab*nce	0.5	0.25	0.999

olvi3*	1.0	0.5	0.552	(1.0)
cmyn3*	0.0	0.5	0.448	(0.0)
olvi4*	1.0	0.5	0.552	1.0
cmyn4*	0.0	0.5	0.448	0.0

LAB*LAB	71.76	32.94	15.69
LAB*LABa	71.76	32.9	15.68
LAB*TC _{Ha}	75.0	36.45	25.49

lab*lab	0.694	0.451	0.215
lab*tch	0.75	0.5	0.071
lab*nch	0.0	0.5	0.071

lab*trj	0.694	0.5	0.0
lab*tce	0.75	0.5	1.0
lab*nce	0.0	0.5	0.999

olvi3*	0.75	0.25	0.302	(1.0)
cmyn3*	0.25	0.75	0.598	(0.0)
olvi4*	1.0	0.5	0.552	0.75
cmyn4*	0.0	0.5	0.448	0.25

LAB*LAB	52.41	32.96	15.7
LAB*LABa	52.41	32.91	15.69
LAB*TC _{Ha}	50.0	36.45	25.49

lab*lab	0.444	0.451	0.215
lab*tch	0.5	0.5	0.071
lab*nch	0.25	0.5	0.071

lab*trj	0.444	0.5	0.0
lab*tce	0.5	0.5	1.0
lab*nce	0.25	0.5	0.999

olvi3*	0.5	0.0	0.652	(1.0)
cmyn3*	0.5	1.0	0.946	(0.0)
olvi4*	1.0	0.5	0.552	0.0
cmyn4*	0.0	0.5	0.448	0.5

LAB*LAB	33.07	32.96	15.72
LAB*LABa	33.07	32.9	15.69
LAB*TC _{Ha}	25.01	36.45	25.5

lab*lab	0.195	0.451	0.215
lab*tch	0.25	0.5	0.071
lab*nch	0.5	0.5	0.071

lab*trj	0.195	0.5	0.0
lab*tce	0.25	0.5	1.0
lab*nce	0.5	0.5	0.999

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

olvi3*	1.0	0.25	0.328	(1.0)
cmyn3*	0.0	0.75	0.672	(0.0)
olvi4*	1.0	0.25	0.328	1.0
cmyn4*	0.0	0.75	0.672	0.0

LAB*LAB	59.93	49.4	23.54
LAB*LABa	59.93	49.35	23.53
LAB*TC _{Ha}	62.5	54.67	25.49

lab*lab	0.542	0.677	0.323
lab*tch	0.625	0.75	0.071
lab*nch	0.0	0.75	0.071

lab*trj	0.542	0.75	0.0
lab*tce	0.625	0.75	1.0
lab*nce	0.0	0.75	0.999

olvi3*	0.75	0.0	0.078	(1.0)
cmyn3*	0.25	1.0	0.922	(0.0)
olvi4*	1.0	0.25	0.328	0.75
cmyn4*	0.0	0.75	0.672	0.25

LAB*LAB	40.59	49.42	23.56
LAB*LABa	40.59	49.35	23.54
LAB*TC _{Ha}	37.51	54.68	25.5

lab*lab	0.292	0.677	0.323
lab*tch	0.375	0.75	0.071
lab*nch	0.25	0.75	0.071

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

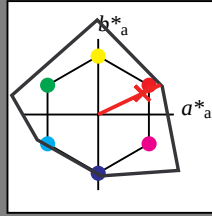
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

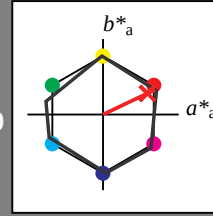
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

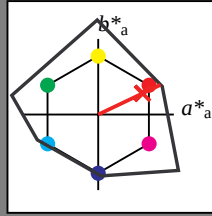
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

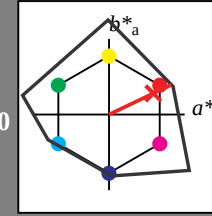
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

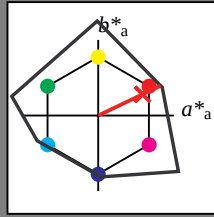
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

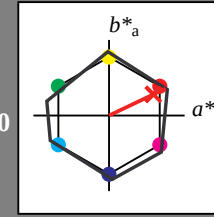
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 25/360 = 0.071$

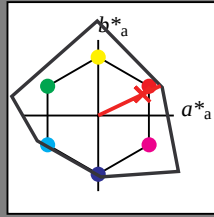
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

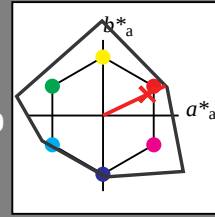
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	0.75	0.75	1.0	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ha}	75.01	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	1.0	0.268	0.25	(1.0)	
cmyn3*	0.0	0.732	0.75	(0.0)	
olvi4*	1.0	0.268	0.25	1.0	
cmyn4*	0.0	0.732	0.75	0.0	
standard and adapted CIELAB					
LAB*LAB	60.01	61.86	29.53		
LAB*LABa	60.01	61.92	29.52		
LAB*TC _{Ha}	62.5	68.6	25.49		

relative CIELAB lab*					
lab*lab	0.581	0.677	0.323		
lab*ch	0.625	0.75	0.071		
lab*nch	0.0	0.75	0.071		
relative Natural Colour (NC)					
lab*trj	0.581	0.75	0.0		
lab*nce	0.625	0.75	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.018	0.0	(1.0)	
cmyn3*	0.25	0.982	1.0	(0.0)	
olvi4*	1.0	0.268	0.25	0.75	
cmyn4*	0.0	0.732	0.75	0.25	
standard and adapted CIELAB					
LAB*LAB	38.91	61.99	29.53		
LAB*LABa	38.91	61.93	29.51		
LAB*TC _{Ha}	37.51	68.6	25.48		

relative CIELAB lab*					
lab*lab	0.331	0.677	0.323		
lab*ch	0.375	0.75	0.071		
lab*nch	0.25	0.75	0.071		
relative Natural Colour (NC)					
lab*trj	0.331	0.75	0.0		
lab*nce	0.375	0.75	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.012	0.0	(1.0)	
cmyn3*	0.5	0.988	1.0	(0.0)	
olvi4*	1.0	0.512	0.5	0.5	
cmyn4*	0.0	0.488	0.5	0.5	
standard and adapted CIELAB					
LAB*LAB	29.6	41.35	19.69		
LAB*LABa	29.6	41.29	19.67		
LAB*TC _{Ha}	25.01	45.73	25.47		

relative CIELAB lab*					
lab*lab	0.22	0.451	0.215		
lab*ch	0.25	0.5	0.071		
lab*nch	0.5	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.22	0.5	0.0		
lab*nce	0.25	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.006	0.0	(1.0)	
cmyn3*	0.75	0.994	1.0	(0.0)	
olvi4*	1.0	0.756	0.75	0.25	
cmyn4*	0.0	0.244	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	20.3	20.71	9.85		
LAB*LABa	20.3	20.64	9.83		
LAB*TC _{Ha}	12.5	22.86	25.46		

relative CIELAB lab*					
lab*lab	0.11	0.226	0.107		
lab*ch	0.125	0.25	0.071		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.11	0.25	0.0		
lab*nce	0.125	0.25	0.0		

relative Inform. Technology (IT)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

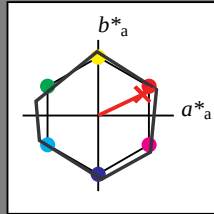
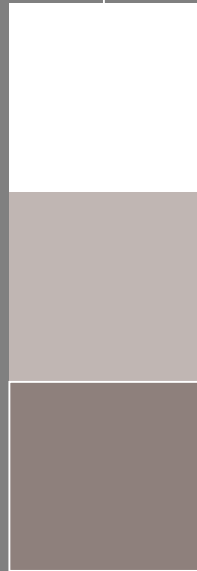
D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

$\%Regularity$

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
$olvi3^*$	1.0	1.0	1.0	(1.0)	
$cmyn3^*$	0.0	0.0	0.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	95.41	-0.57	4.75		
LAB^*LABa	95.41	0.0	0.0		
LAB^*TCha	99.99	0.01	-		
relative CIELAB lab*					
lab^*lab	1.0	0.0	0.0		
lab^*tch	1.0	0.0	0.0		
lab^*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	1.0	0.0	0.0		
lab^*tce	0.0	0.0	0.0		
lab^*nce	0.0	0.0	0.0		

0,75

relative Inform. Technology (IT)					
$olvi3^*$	0.75	0.75	0.75	(1.0)	
$cmyn3^*$	0.25	0.25	0.25	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	76.06	0.0	3.44		
LAB^*LABa	76.06	0.0	0.0		
LAB^*TCha	75.0	0.01	-		
relative CIELAB lab*					
lab^*lab	0.75	0.0	0.0		
lab^*tch	0.75	0.0	0.0		
lab^*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.75	0.0	0.0		
lab^*tce	0.25	0.0	0.0		
lab^*nce	0.25	0.0	0.0		

0,50

relative Inform. Technology (IT)					
$olvi3^*$	0.5	0.5	0.5	(1.0)	
$cmyn3^*$	0.5	0.5	0.5	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	56.71	0.23	2.14		
LAB^*LABa	56.71	0.0	0.0		
LAB^*TCha	50.0	0.01	-		
relative CIELAB lab*					
lab^*lab	0.5	0.0	0.0		
lab^*tch	0.5	0.0	0.0		
lab^*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.5	0.0	0.0		
lab^*tce	0.5	0.0	0.0		
lab^*nce	0.5	0.0	0.0		

0,25

relative Inform. Technology (IT)					
$olvi3^*$	0.25	0.25	0.25	(1.0)	
$cmyn3^*$	0.75	0.75	0.75	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	37.36	0.13	0.83		
LAB^*LABa	37.36	0.0	0.0		
LAB^*TCha	25.0	0.01	-		
relative CIELAB lab*					
lab^*lab	0.25	0.0	0.0		
lab^*tch	0.25	0.0	0.0		
lab^*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.25	0.0	0.0		
lab^*tce	0.25	0.0	0.0		
lab^*nce	0.75	0.0	0.0		

0,00

relative Inform. Technology (IT)					
$olvi3^*$	0.0	0.0	0.0	(1.0)	
$cmyn3^*$	1.0	1.0	1.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	18.02	0.5	-0.46		
LAB^*LABa	18.02	0.0	0.0		
LAB^*TCha	0.01	0.01	-		
relative CIELAB lab*					
lab^*lab	0.0	0.0	0.0		
lab^*tch	0.0	0.0	0.0		
lab^*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.0	0.0	0.0		
lab^*tce	0.0	0.0	0.0		
lab^*nce	1.0	0.0	0.0		

0,00

relative Inform. Technology (IT)					
$olvi3^*$	0.0	0.0	0.0	(1.0)	
$cmyn3^*$	1.0	1.0	1.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	0.01	0.01	-		
LAB^*LABa	0.01	0.01	-		
LAB^*TCha	0.01	0.01	-		
relative CIELAB lab*					
lab^*lab	0.0	0.0	0.0		
lab^*tch	0.0	0.0	0.0		
lab^*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.0	0.0	0.0		
lab^*tce	0.0	0.0	0.0		
lab^*nce	1.0	0.0	0.0		

0,00

relative Inform. Technology (IT)					
$olvi3^*$	0.0	0.0	0.0	(1.0)	
$cmyn3^*$	1.0	1.0	1.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	0.01	0.01	-		
LAB^*LABa	0.01	0.01	-		
LAB^*TCha	0.01	0.01	-		
relative CIELAB lab*					
lab^*lab	0.0	0.0	0.0		
lab^*tch	0.0	0.0	0.0		
lab^*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.0	0.0	0.0		
lab^*tce	0.0	0.0	0.0		
lab^*nce	1.0	0.0	0.0		

0,00

relative Inform. Technology (IT)					
$olvi3^*$	0.0	0.0	0.0	(1.0)	
$cmyn3^*$	1.0	1.0	1.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	0.01	0.01	-		
LAB^*LABa	0.01	0.01	-		
LAB^*TCha	0.01	0.01	-		
relative CIELAB lab*					
lab^*lab	0.0	0.0	0.0		
lab^*tch	0.0	0.0	0.0		
lab^*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.0	0.0	0.0		
lab^*tce	0.0	0.0	0.0		
lab^*nce	1.0	0.0	0.0		

0,00

relative Inform. Technology (IT)					
$olvi3^*$	0.0	0.0	0.0	(1.0)	
$cmyn3^*$	1.0	1.0	1.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	0.01	0.01	-		
LAB^*LABa	0.01	0.01	-		
LAB^*TCha	0.01	0.01	-		
relative CIELAB lab*					
lab^*lab	0.0	0.0	0.0		
lab^*tch	0.0	0.0	0.0		
lab^*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.0	0.0	0.0		
lab^*tce	0.0	0.0	0.0		
lab^*nce	1.0	0.0	0.0		

0,00

relative Inform. Technology (IT)					
$olvi3^*$	0.0	0.0	0.0	(1.0)	
$cmyn3^*$	1.0	1.0	1.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	0.01	0.01	-		
LAB^*LABa	0.01	0.01	-		
LAB^*TCha	0.01	0.01	-		
relative CIELAB lab*					
lab^*lab	0.0	0.0	0.0		
lab^*tch	0.0	0.0	0.0		
lab^*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab^*trj	0.0	0.0	0.0		
lab^*tce	0.0	0.0	0.0		
lab^*nce	1.0	0.0	0.0		

0,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

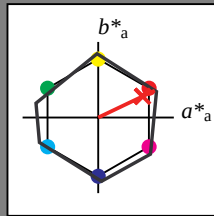
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

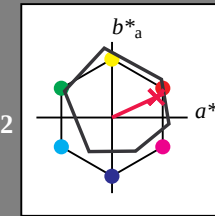
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

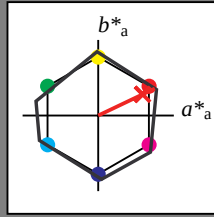
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

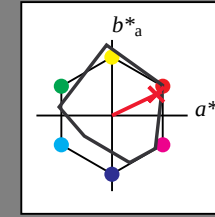
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 76.06$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.25$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.25$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 56.71$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.5$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.5$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.36$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.75$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.36$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.75$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 76.06$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.25$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.25$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 56.71$
 $LAB^*TCha = 50.0$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.5$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.5$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.36$
 $LAB^*TCha = 25.0$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.75$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

$n^* = 0,00$

blackness n^*

$n^* = 0,50$

0,25

0,50

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

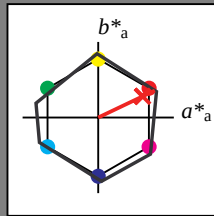
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

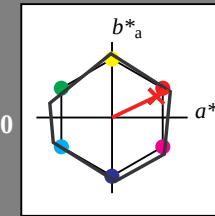
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

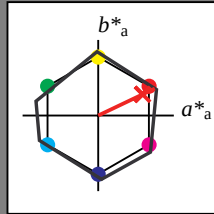
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

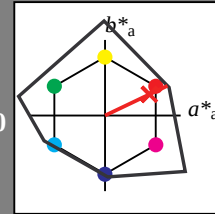
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

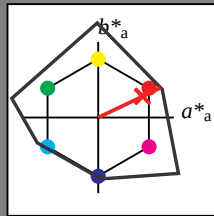
0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

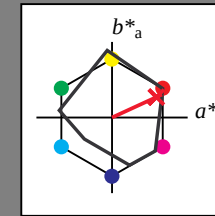
0,75

1,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

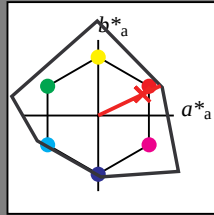
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

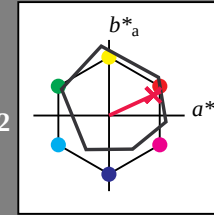
0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

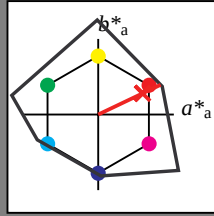
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

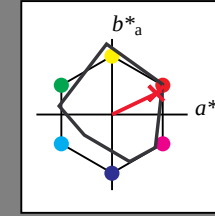
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness



% Gamut

$u^*_{rel} = 92$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	95.41	0.0	0.0		
LAB*LABc	95.41	0.0	0.0		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.847	0.226	0.108		
lab*tce	0.875	0.25	0.071		
lab*nce	0.875	0.25	0.071		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.0	0.5

standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*LABb	76.06	0.0	0.0		
LAB*LABc	76.06	0.0	0.0		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	0.847	0.226	0.108		
lab*tce	0.875	0.25	0.071		
lab*nce	0.875	0.25	0.071		

relative Natural Colour (NC)					
lab*trj	0.847	0.226	0.108		
lab*tce	0.875	0.25	0.071		
lab*nce	0.875	0.25	0.071		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	0.0	1.0

standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.1	0.02		
LAB*LABb	18.02	0.1	0.02		
LAB*LABc	18.02	0.1	0.02		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	0.75	1.0
cmyn4*	0.0	0.25	0.25	0.25	0.0

standard and adapted CIELAB					
LAB*LAB	83.58	16.47	7.84		
LAB*LABa	83.58	16.45	7.84		
LAB*LABb	83.58	16.45	7.84		
LAB*LABc	83.58	16.45	7.84		

relative CIELAB lab*					
lab*lab	0.847	0.226	0.108		
lab*tch	0.875	0.25	0.071		
lab*nch	0.0	0.25	0.071		
lab*trj	0.847	0.226	0.108		
lab*tce	0.875	0.25	0.071		
lab*nce	0.0	0.25	0.071		

relative Natural Colour (NC)					
lab*trj	0.847	0.226	0.108		
lab*tce	0.875	0.25	0.071		
lab*nce	0.0	0.25	0.071		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	0.5	(1.0)
cmyn3*	0.25	0.5	0.5	0.5	(0.0)
olvi4*	1.0	0.75	0.75	0.75	0.5
cmyn4*	0.0	0.25	0.25	0.25	0.5

standard and adapted CIELAB					
LAB*LAB	64.23	16.5	7.85		
LAB*LABa	64.23	16.45	7.84		
LAB*LABb	64.23	16.45	7.84		
LAB*LABc	64.23	16.45	7.84		

relative CIELAB lab*					
lab*lab	0.597	0.226	0.108		
lab*tch	0.625	0.25	0.071		
lab*nch	0.25	0.25	0.071		
lab*trj	0.597	0.226	0.108		
lab*tce	0.625	0.25	0.071		
lab*nce	0.25	0.25	0.071		

relative Natural Colour (NC)					
lab*trj	0.597	0.226	0.108		
lab*tce	0.625	0.25	0.071		
lab*nce	0.25	0.25	0.071		

relative Inform. Technology (IT)					
olvi3*	0.5	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	0.75	0.5
cmyn4*	0.0	0.25	0.25	0.25	0.5

standard and adapted CIELAB					
LAB*LAB	52.41	32.96	15.7		
LAB*LABa	52.41	32.91	15.69		
LAB*LABb	52.41	32.91	15.69		
LAB*LABc	52.41	32.91	15.69		

relative CIELAB lab*					
lab*lab	0.444	0.451	0.215		
lab*tch	0.444	0.451	0.215		
lab*nch	0.25	0.5	0.071		
lab*trj	0.444	0.451	0.215		
lab*tce	0.444	0.451	0.215		
lab*nce	0.25	0.5	0.071		

relative Natural Colour (NC)					
lab*trj	0.444	0.451	0.215		
lab*tce	0.444	0.451	0.215		
lab*nce	0.25	0.5	0.071		

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	0.5	(0.0)
olvi4*	1.0	0.5	0.5	0.5	1.0
cmyn4*	0.0	0.5	0.5	0.5	0.0

standard and adapted CIELAB					
LAB*LAB	71.76	32.94	15.69		
LAB*LABa	71.76	32.9	15.68		
LAB*LABb	71.76	32.9	15.68		
LAB*LABc	71.76	32.9	15.68		

LAB*LABa	71.76	32.9	15.68
LAB*TCHa	75.0	36.45	25.49
relative CIELAB lab*			
lab*lab	0.694	0.451	0.215
lab*tch	0.75	0.5	0.071
lab*nch	0.0	0.5	0.071
relative Natural Colour (NC)			
lab*lrj	0.694	0.5	0.0
lab*tce	0.75	0.5	1.0

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

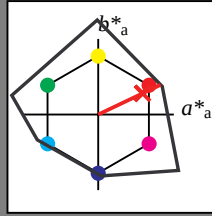
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 25/360 = 0.071$

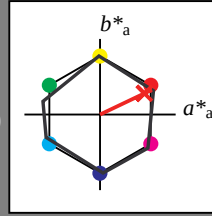
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 76 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

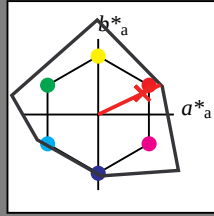
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 25/360 = 0.071$

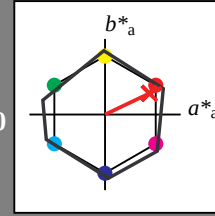
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	(0.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ha}	75.01	-			
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.25	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.507	0.5	(1.0)	
cmyn3*	0.25	0.493	0.5	(0.0)	
olvi4*	1.0	0.514	0.5	0.75	(0.0)
cmyn4*	0.0	0.243	0.25	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	63.75	18.72	8.93		
LAB*LABa	63.75	18.72	8.93		
LAB*TC _{Ha}	62.5	20.74	25.49		
relative CIELAB lab*					
lab*lab	0.625	0.226	0.108		
lab*lab	0.625	0.226	0.108		
lab*nch	0.25	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.625	0.25	0.0		
lab*nce	0.25	0.25	0.099		

relative Inform. Technology (IT)					
olvi3*	0.5	0.257	0.25	(1.0)	
cmyn3*	0.5	0.243	0.5	(0.0)	
olvi4*	1.0	0.514	0.5	0.75	(0.0)
cmyn4*	0.0	0.243	0.25	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	(0.0)
cmyn4*	0.0	0.0	0.0	0.75	(0.0)
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.0	0.0		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.007	0.0	(1.0)	
cmyn3*	0.75	0.993	1.0	(0.0)	
olvi4*	1.0	0.757	0.75	0.25	(0.0)
cmyn4*	0.0	0.243	0.25	0.75	(0.0)
standard and adapted CIELAB					
LAB*LAB	21.55	18.79	8.94		
LAB*LABa	21.55	18.72	8.93		
LAB*TC _{Ha}	12.5	20.74	25.47		
relative CIELAB lab*					
lab*lab	0.125	0.226	0.107		
lab*lab	0.125	0.226	0.107		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.125	0.25	0.0		
lab*nce	0.125	0.25	1.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.014	0.0	(1.0)	
cmyn3*	0.5	0.986	1.0	(0.0)	
olvi4*	1.0	0.514	0.5	0.5	(0.0)
cmyn4*	0.0	0.486	0.5	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	32.1	37.51	17.86		
LAB*LABa	32.1	37.45	17.84		
LAB*TC _{Ha}	25.01	41.48	25.48		
relative CIELAB lab*					
lab*lab	0.25	0.451	0.215		
lab*lab	0.25	0.451	0.215		
lab*nch	0.5	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.25	0.5	0.0		
lab*nce	0.25	0.5	1.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.007	0.0	(1.0)	
cmyn3*	0.75	0.993	1.0	(0.0)	
olvi4*	1.0	0.757	0.75	0.25	(0.0)
cmyn4*	0.0	0.243	0.25	0.75	(0.0)
standard and adapted CIELAB					
LAB*LAB	21.55	18.79	8.94		
LAB*LABa	21.55	18.72	8.93		
LAB*TC _{Ha}	12.5	20.74	25.47		
relative CIELAB lab*					
lab*lab	0.125	0.226	0.107		
lab*lab	0.125	0.226	0.107		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.125	0.25	0.0		
lab*nce	0.125	0.25	1.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.007	0.0	(1.0)	
cmyn3*	0.75	0.993	1.0	(0.0)	
olvi4*	1.0	0.757	0.75	0.25	(0.0)
cmyn4*	0.0	0.243	0.25	0.75	(0.0)
standard and adapted CIELAB					
LAB*LAB	21.55	18.79	8.94		
LAB*LABa	21.55	18.72	8.93		
LAB*TC _{Ha}	12.5	20.74	25.47		
relative CIELAB lab*					
lab*lab	0.125	0.226	0.107		
lab*lab	0.125	0.226	0.107		
lab*nch	0.75	0.25	0.071		
relative Natural Colour (NC)					
lab*trj	0.125	0.25	0.0		
lab*nce	0.125	0.25	1.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.014	0.0	(1.0)	
cmyn3*	0.5	0.986	1.0	(0.0)	
olvi4*	1.0	0.514	0.5	0.5	(0.0)
cmyn4*	0.0	0.486	0.5	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	32.1	37.51	17.86		
LAB*LABa	32.1	37.45	17.84		
LAB*TC _{Ha}	25.01	41.48	25.48		
relative CIELAB lab*					
lab*lab	0.25	0.451	0.215		
lab*lab	0.25	0.451	0.215		
lab*nch	0.5	0.5	0.071		
relative Natural Colour (NC)					
lab*trj	0.25	0.5	0.0		
lab*nce	0.25	0.5	1.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.007	0.0	(1.0)	
cmyn3*	0.75	0.993	1.0	(0.0)	
olvi4*	1.0	0.757	0.75	0.25	(0.0)
cmyn4*	0.0	0.243	0.25	0.75	(0.0)
standard and adapted CIELAB					
LAB*LAB	21.55	18.79	8.94		
LAB*LABa	21.55	18.72	8.93		
LAB*TC _{Ha}	12.5	20.74	25.47		
relative CIELAB lab*					
n* = 1,0					
5 step scales for					

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

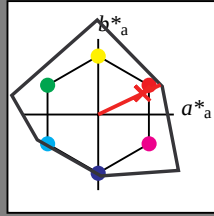
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

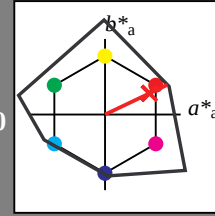
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

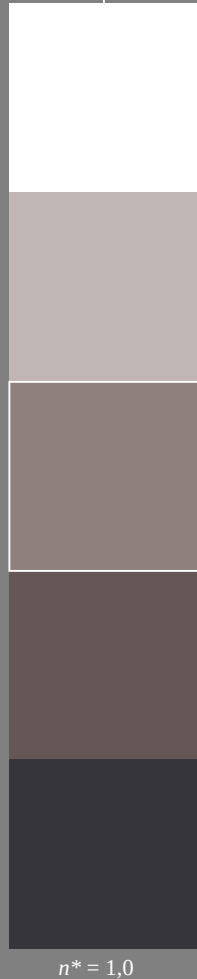
D65: hue J

LCH*Ma: 86 88 92

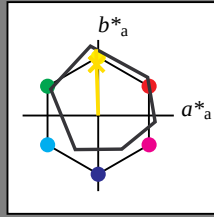
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

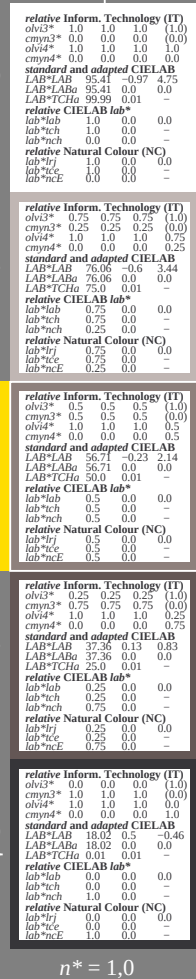
D65: hue J

LCH*Ma: 86 88 92

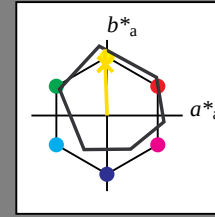
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	
LAB*LAB	95.41	-0.57	4.75	0.0	
LAB*LABa	95.41	0.0	0.0	0.0	
LAB*TCBa	99.99	0.01	-	-	
relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch		
standard and adapted CIELAB	0.0	0.0	0.0		
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		

relative Inform. Technology (IT)					
	$olvi3^*$	$cmyn3^*$	$olvi4^*$	$cmyn4^*$	
standard and adapted CIELAB	0.0	0.0	0.0	0.0	
LAB*LAB	95.41	-0.57	4.75	0.0	
LAB*LABa	95.41	0.0	0.0	0.0	
LAB*TCBa	99.99	0.01	-	-	
relative CIELAB lab*					
	lab^*lab	lab^*tch	lab^*nch		
standard and adapted CIELAB	0.0	0.0	0.0		
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

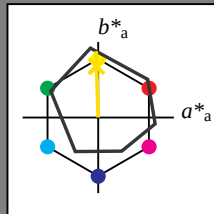
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

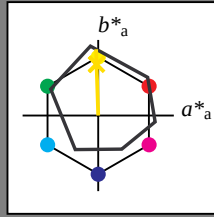
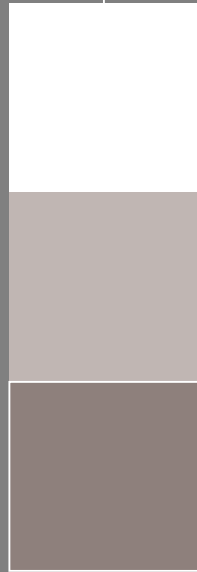
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01		
LAB*LABa	37.36	0.07	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.1	0.02		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

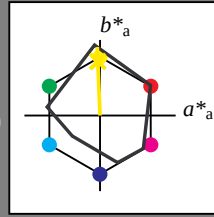
relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01		
LAB*LABa	37.36	0.07	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.1	0.02		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
CMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272



% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)					
----------------------------------	--	--	--	--	--

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

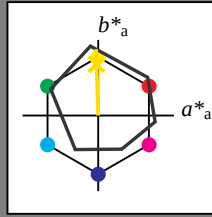
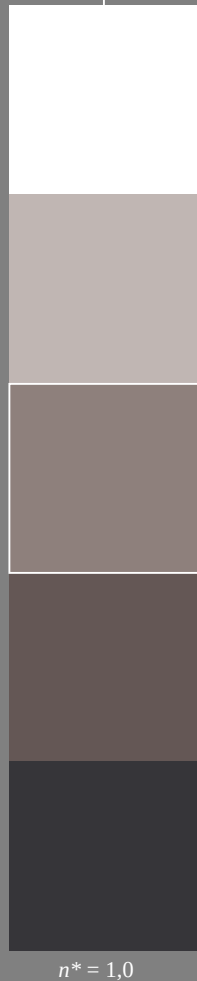
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.07	0.0	0.0		
LAB*LABa	76.07	0.0	0.0		
LAB*TCBa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.72	0.0	0.0		
LAB*LABa	56.72	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.37	0.01	0.01		
LAB*LABa	37.37	0.01	0.01		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.09	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	-		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

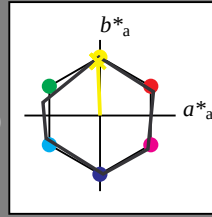
LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

relative Inform. Technology (IT)					
olvi3*	0.994	1.0	0.75	(1.0)	
cmyn3*	0.006	0.0	0.25	(0.0)	
olvi4*	0.994	1.0	0.75	(1.0)	
cmyn4*	0.006	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	85.73	-0.74	19.0		
LAB*LABa	85.73	-0.76	19.0		
LAB*TCBa	87.5	19.01	92.31		
relative CIELAB lab*					
lab*lab	0.875	-0.009	0.25		
lab*ch	0.875	0.0	0.256		
lab*nch	0.0	0.25	0.256		
relative Natural Colour (NC)					
lab*trj	0.875	0.0	0.25		
lab*nce	0.875	0.25	0.25		
relative Inform. Technology (IT)					
olvi3*	0.744	0.75	0.5	(1.0)	
cmyn3*	0.256	0.25	0.5	(0.0)	
olvi4*	0.994	1.0	0.75	(1.0)	
cmyn4*	0.006	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	66.38	-0.72	19.01		
LAB*LABa	66.38	-0.76	19.0		
LAB*TCBa	62.5	19.02	92.33		
relative CIELAB lab*					
lab*lab	0.625	-0.009	0.25		
lab*ch	0.625	0.25	0.256		
lab*nch	0.25	0.25	0.256		
relative Natural Colour (NC)					
lab*trj	0.625	0.0	0.25		
lab*nce	0.625	0.25	0.25		
relative Inform. Technology (IT)					
olvi3*	0.494	0.5	0.25	(1.0)	
cmyn3*	0.506	0.5	0.25	(0.0)	
olvi4*	0.994	1.0	0.75	(1.0)	
cmyn4*	0.006	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	47.03	-0.7	19.02		
LAB*LABa	47.03	-0.76	19.0		
LAB*TCBa	37.5	19.02	92.33		
relative CIELAB lab*					
lab*lab	0.375	-0.009	0.25		
lab*ch	0.375	0.25	0.256		
lab*nch	0.5	0.25	0.256		
relative Natural Colour (NC)					
lab*trj	0.375	0.0	0.25		
lab*nce	0.375	0.25	0.25		
relative Inform. Technology (IT)					
olvi3*	0.244	0.25	0.0	(1.0)	
cmyn3*	0.756	0.75	1.0	(0.0)	
olvi4*	0.994	1.0	0.75	(1.0)	
cmyn4*	0.006	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	27.69	-0.68	19.02		
LAB*LABa	27.69	-0.76	18.99		
LAB*TCBa	12.5	19.01	92.33		
relative CIELAB lab*					
lab*lab	0.125	-0.009	0.25		
lab*ch	0.125	0.25	0.256		
lab*nch	0.75	0.25	0.256		
relative Natural Colour (NC)					
lab*trj	0.125	0.0	0.25		
lab*nce	0.125	0.25	0.25		



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)				
olvi3*	0.989	1.0	0.5	(1.0)
cmyn3*	0.011	0.0	0.5	(0.0)
olvi4*	0.989	1.0	0.5	(1.0)
cmyn4*	0.011	0.0	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	76.05	-1.5	38.01	
LAB*LABa	76.05	-1.53	38.0	
LAB*TCBa	75.0	38.03	92.32	
relative CIELAB lab*				
lab*lab	0.75	-0.019	0.499	
lab*ch	0.75	0.5	0.256	
lab*nch	0.0	0.5	0.256	
relative Natural Colour (NC)				
lab*trj	0.75	0.0	0.25	
lab*nce	0.75	0.5	0.25	
lab*nce	0.0	0.5	0.25	
relative Inform. Technology (IT)				
olvi3*	0.739	0.75	0.25	(1.0)
cmyn3*	0.261	0.25	0.75	(0.0)
olvi4*	0.989	1.0	0.5	(1.0)
cmyn4*	0.011	0.0	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.7	-1.49	38.02	
LAB*LABa	56.7	-1.54	38.0	
LAB*TCBa	55.0	38.03	92.33	
relative CIELAB lab*				
lab*lab	0.5	-0.019	0.5	
lab*ch	0.5	0.5	0.256	
lab*nch	0.25	0.5	0.256	
relative Natural Colour (NC)				
lab*trj	0.5	0.0	0.25	
lab*nce	0.5	0.5	0.25	
lab*nce	0.25	0.5	0.25	
relative Inform. Technology (IT)				
olvi3*	0.489	0.5	0.0	(1.0)
cmyn3*	0.511	0.5	1.0	(0.0)
olvi4*	0.989	1.0	0.5	(1.0)
cmyn4*	0.011	0.0	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.36	-1.46	38.02	
LAB*LABa	37.36	-1.54	37.99	
LAB*TCBa	25.01	38.03	92.33	
relative CIELAB lab*				
lab*lab	0.25	-0.019	0.499	
lab*ch	0.25	0.5	0.256	
lab*nch	0.0	0.5	0.256	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.25	
lab*nce	0.25	0.5	0.25	
lab*nce	0.5	0.5	0.0	

</

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

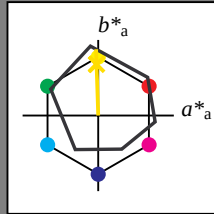
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

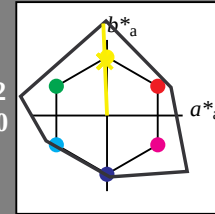
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

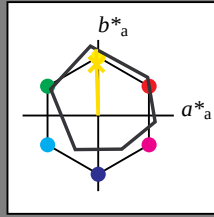
LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

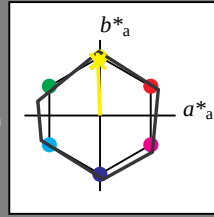
LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

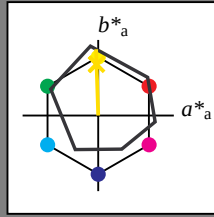
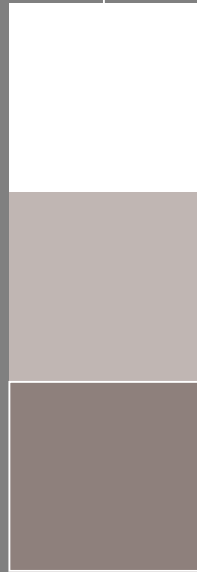
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

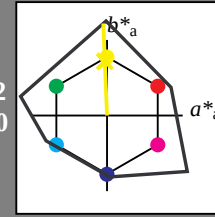
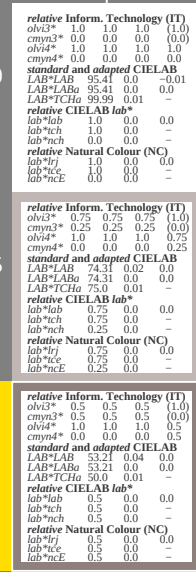
D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

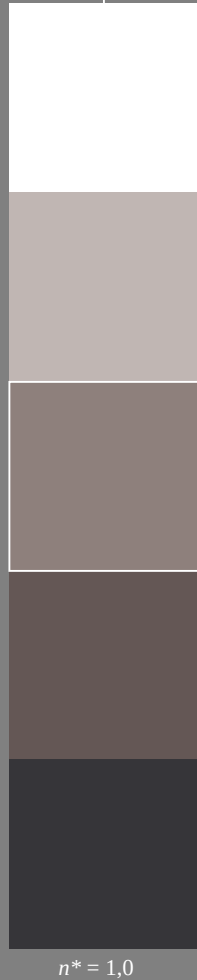
D65: hue J

LCH*Ma: 89 86 92

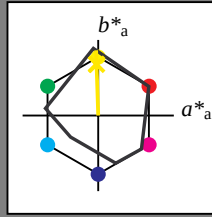
rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



$n^* = 1,0$



%Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

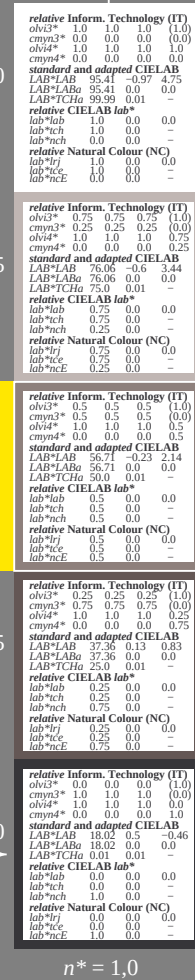
D65: hue J

LCH*Ma: 86 88 92

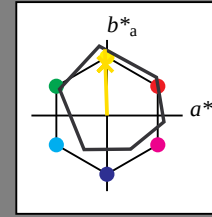
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



$n^* = 1,0$



%Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

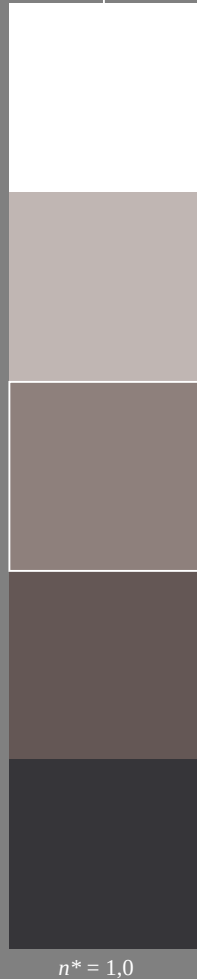
D65: hue J

LCH*Ma: 89 86 92

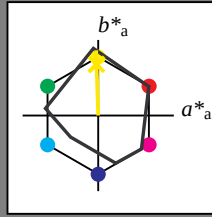
rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

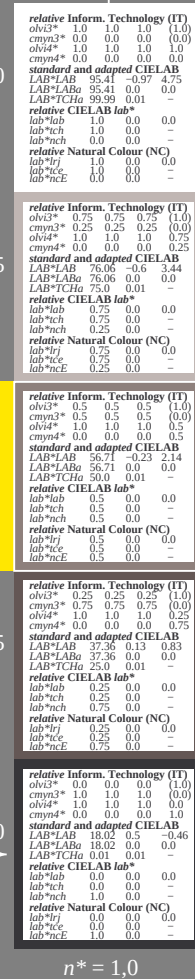
D65: hue J

LCH*Ma: 89 86 92

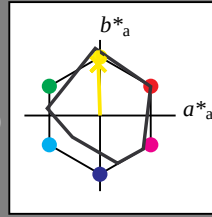
rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

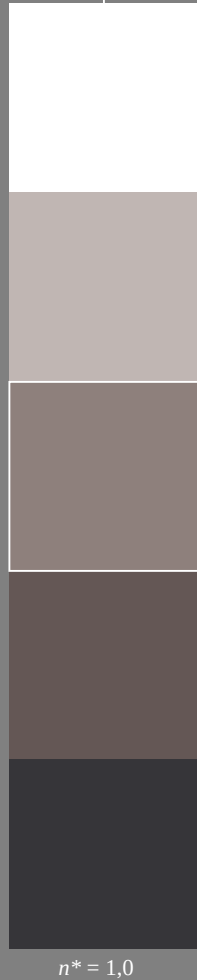
D65: hue J

LCH*Ma: 89 86 92

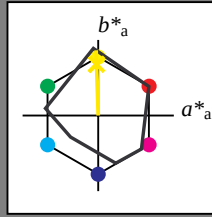
rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

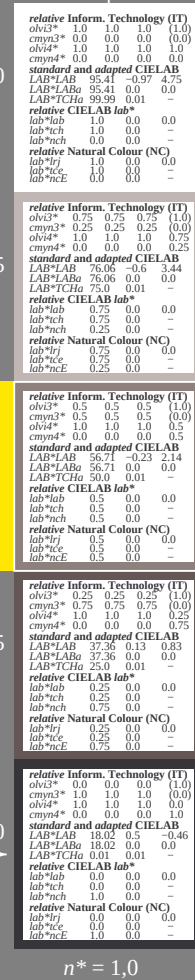
D65: hue J

LCH*Ma: 86 88 92

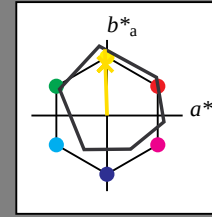
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

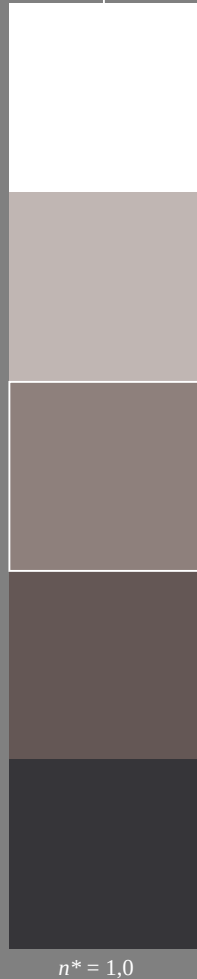
D65: hue J

LCH*Ma: 89 86 92

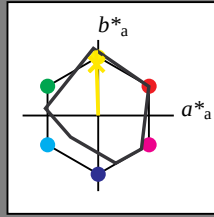
rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

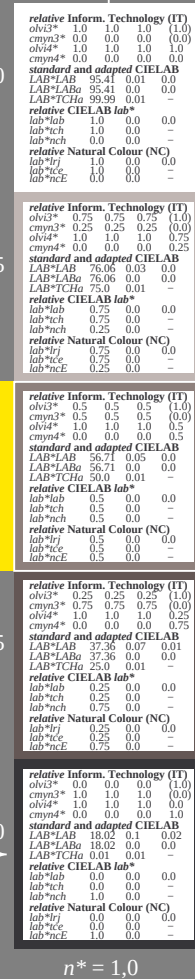
D65: hue J

LCH*Ma: 89 91 92

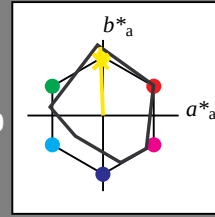
rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

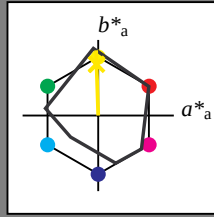
0,50

0,75

1,00

chromaticness c^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

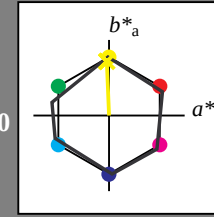
0,75

1,00

chromaticness c^*

blackness n^*

0,25



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

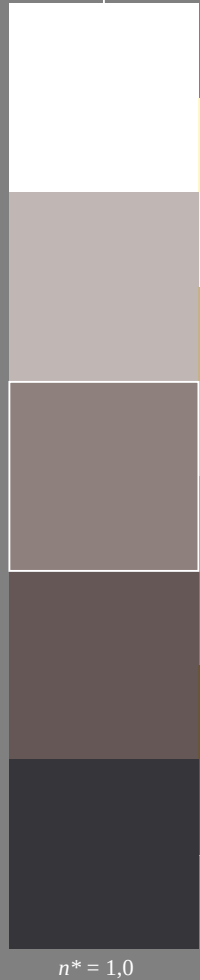
D65: hue J

LCH*Ma: 89 86 92

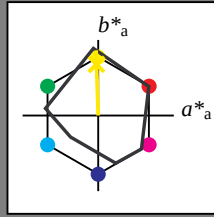
rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

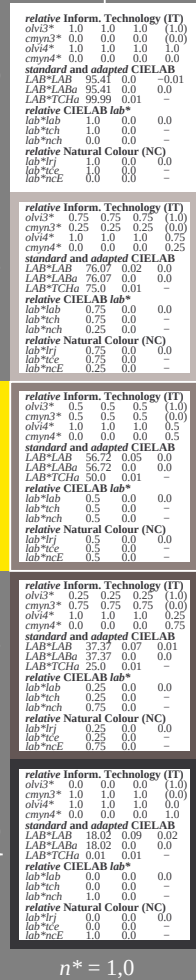
D65: hue J

LCH*Ma: 90 122 92

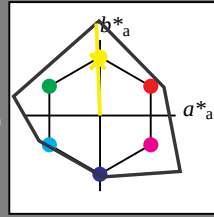
rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

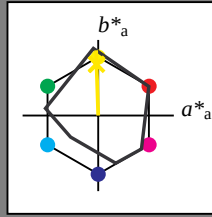
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	49.63	66.96	38.37	77.18	30	
JMa	90.7	-6.36	88.75	88.98	94	
GMa	52.11	-69.73	9.44	70.37	172	
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218	
B _{Ma}	36.65	23.19	-63.05	67.18	290	
B50R _{Ma}	34.94	57.17	-44.26	72.31	322	
N _{Ma}	18.01	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.66	26.98	64.56	25	
JCIE	81.26	-2.17	67.76	67.79	92	
GCIE	52.23	-42.26	11.75	43.87	164	
BCIE	30.57	1.15	-46.84	46.87	271	

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

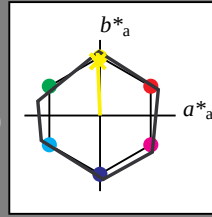
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	53.2	77.06	34.32	84.36	24	
JMa	53.2	-1.51	84.38	84.39	91	
GMa	53.2	-82.27	18.98	84.44	167	
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203	
B _{Ma}	53.2	4.37	-84.28	84.41	273	
B50R _{Ma}	53.2	69.09	-48.41	84.37	325	
N _{Ma}	10.99	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

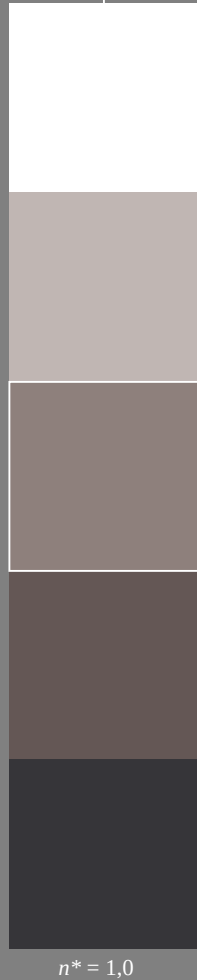
D65: hue J

LCH*Ma: 86 88 92

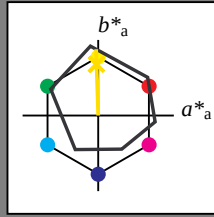
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

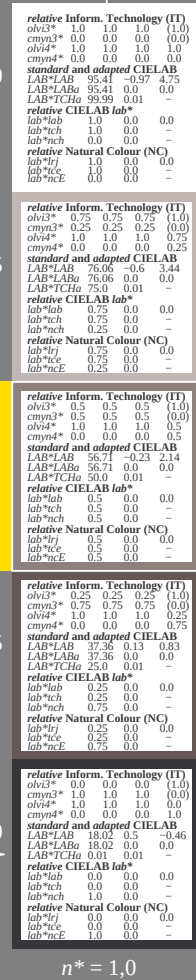
D65: hue J

LCH*Ma: 86 88 92

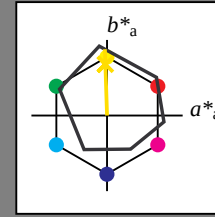
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



5 step scales for constant CIELAB hue 92/360 = 0.255 (right)



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

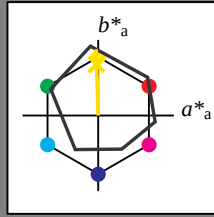
$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$



TRS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

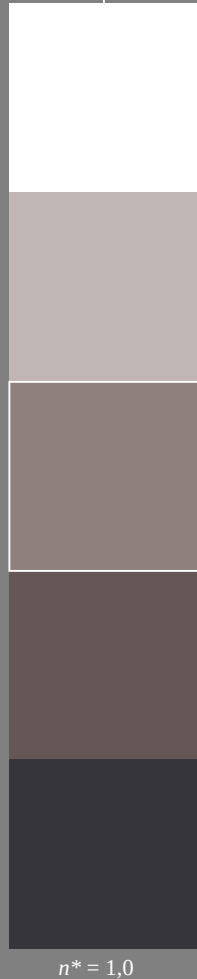
D65: hue J

LCH*Ma: 86 88 92

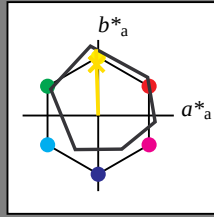
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
$olvi3^*$	1.0	1.0	1.0	(1.0)	
$cmyn3^*$	0.0	0.0	0.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	95.41	-0.57	4.75		
LAB^*LABa	95.41	0.0	0.0		
LAB^*TCha	99.99	0.01	-		
relative CIELAB lab*					
lab^*lab	1.0	0.0	0.0		
lab^*tch	1.0	0.0	-		
lab^*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab^*trj	1.0	0.0	0.0		
lab^*tce	0.0	0.0	-		
lab^*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
$olvi3^*$	0.75	0.75	0.75	(1.0)	
$cmyn3^*$	0.25	0.25	0.25	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	76.06	-0.6	3.44		
LAB^*LABa	76.06	0.0	0.0		
LAB^*TCha	75.0	0.01	-		
relative CIELAB lab*					
lab^*lab	0.75	0.0	0.0		
lab^*tch	0.75	0.0	-		
lab^*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab^*trj	0.75	0.0	0.0		
lab^*tce	0.25	0.0	-		
lab^*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
$olvi3^*$	0.5	0.5	0.5	(1.0)	
$cmyn3^*$	0.5	0.5	0.5	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	56.71	-0.23	2.14		
LAB^*LABa	56.71	0.0	0.0		
LAB^*TCha	50.0	0.01	-		
relative CIELAB lab*					
lab^*lab	0.5	0.0	0.0		
lab^*tch	0.5	0.0	-		
lab^*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab^*trj	0.5	0.0	0.0		
lab^*tce	0.5	0.0	-		
lab^*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
$olvi3^*$	0.25	0.25	0.25	(1.0)	
$cmyn3^*$	0.75	0.75	0.75	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	37.36	-0.13	0.83		
LAB^*LABa	37.36	0.0	0.0		
LAB^*TCha	25.0	0.01	-		
relative CIELAB lab*					
lab^*lab	0.25	0.0	0.0		
lab^*tch	0.25	0.0	-		
lab^*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab^*trj	0.25	0.0	0.0		
lab^*tce	0.25	0.0	-		
lab^*nce	0.75	0.0	-		
relative Inform. Technology (IT)					
$olvi3^*$	0.0	0.0	0.0	(1.0)	
$cmyn3^*$	1.0	1.0	1.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	18.02	0.5	-0.46		
LAB^*LABa	18.02	0.0	0.0		
LAB^*TCha	0.01	0.01	-		
relative CIELAB lab*					
lab^*lab	0.0	0.0	0.0		
lab^*tch	0.0	0.0	-		
lab^*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab^*trj	0.0	0.0	0.0		
lab^*tce	0.0	0.0	-		
lab^*nce	1.0	0.0	-		

blackness n^*

0,00

chromaticness c^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

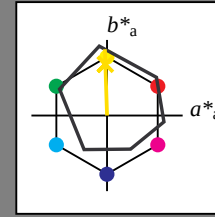
LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

relative Inform. Technology (IT)					
$olvi3^*$	1.0	1.0	1.0	(1.0)	
$cmyn3^*$	0.0	0.0	0.0	(0.0)	
$olvi4^*$	1.0	1.0	1.0	(1.0)	
$cmyn4^*$	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	95.41	-0.57	4.75		
LAB^*LABa	95.41	0.0	0.0		
LAB^*TCha	99.99	0.01	-		
relative CIELAB lab*					
lab^*lab	1.0	0.0	0.0		
lab^*tch	1.0	0.0	-		
lab^*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab^*trj	1.0	0.0	0.0		
lab^*tce	0.0	0.0	-		
lab^*nce	0.0	0.0	-		
relative Inform. Technology (IT)					
$olvi3^*$	0.97	0.0	0.25	(1.0)	
$cmyn3^*$	0.025	0.25	0.25	(0.0)	
$olvi4^*$	1.0	0.975	0.75	(1.0)	
$cmyn4^*$	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	93.1	-1.64	26.52		
LAB^*LABa	93.1	-0.7	21.92		
LAB^*TCha	87.5	21.93	91.86		
relative CIELAB lab*					
lab^*lab	0.97	-0.007	0.25		
lab^*tch	0.875	0.0	0.255		
lab^*nch	0.0	0.25	0.255		
relative Natural Colour (NC)					
lab^*trj	0.97	0.0	0.25		
lab^*tce	0.875	0.25	0.25		
lab^*nce	0.0	0.25	0.008		
relative Inform. Technology (IT)					
$olvi3^*$	0.75	0.725	0.5	(1.0)	
$cmyn3^*$	0.25	0.275	0.5	(0.0)	
$olvi4^*$	1.0	0.975	0.75	(1.0)	
$cmyn4^*$	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	73.75	-1.26	25.32		
LAB^*LABa	73.75	-0.7	21.93		
LAB^*TCha	62.5	21.94	91.84		
relative CIELAB lab*					
lab^*lab	0.72	-0.007	0.25		
lab^*tch	0.625	0.25	0.255		
lab^*nch	0.25	0.25	0.255		
relative Natural Colour (NC)					
lab^*trj	0.72	0.0	0.25		
lab^*tce	0.625	0.25	0.25		
lab^*nce	0.25	0.25	0.99		
relative Inform. Technology (IT)					
$olvi3^*$	0.5	0.475	0.25	(1.0)	
$cmyn3^*$	0.5	0.525	0.25	(0.0)	
$olvi4^*$	1.0	0.975	0.75	(1.0)	
$cmyn4^*$	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	54.4	-0.89	23.92		
LAB^*LABa	54.4	-0.7	21.93		
LAB^*TCha	37.5	21.94	91.84		
relative CIELAB lab*					
lab^*lab	0.47	-0.007	0.25		
lab^*tch	0.375	0.25	0.255		
lab^*nch	0.5	0.25	0.255		
relative Natural Colour (NC)					
lab^*trj	0.47	0.0	0.25		
lab^*tce	0.375	0.25	0.25		
lab^*nce	0.5	0.25	0.99		
relative Inform. Technology (IT)					
$olvi3^*$	0.25	0.225	0.0	(1.0)	
$cmyn3^*$	0.75	0.775	1.0	(0.0)	
$olvi4^*$	1.0	0.975	0.75	(1.0)	
$cmyn4^*$	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB^*LAB	35.05	-0.52	22.6		
LAB^*LABa	35.05	-0.69	21.92		
LAB^*TCha	12.5	21.93	91.84		
relative CIELAB lab*					
lab^*lab	0.22	-0.007	0.25		
lab^*tch	0.125	0.25	0.255		
lab^*nch	0.75	0.25	0.255		
relative Natural Colour (NC)					
lab^*trj	0.22	0.0	0.25		
lab^*tce	0.125	0.25	0.25		
lab^*nce	0.75	0.25	0.99		



% Gamut

$u^*_{rel} = 93$

1,00

relative Inform. Technology (IT)				
----------------------------------	--	--	--	--

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

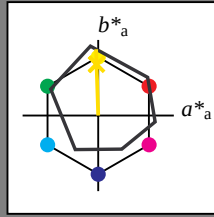
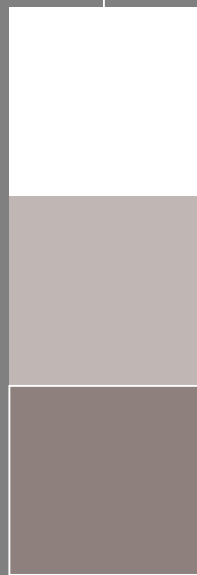
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCRa	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	0.25
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0	0.0	0.0
LAB*LABa	76.06	0.0	0.0	0.0	0.0
LAB*TCRa	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*ch	0.75	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.5	0.5
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0	0.0	0.0
LAB*LABa	56.71	0.0	0.0	0.0	0.0
LAB*TCRa	50.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*ch	0.5	0.0	0.0	0.0	0.0
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.75	0.75
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01	0.0	0.0
LAB*LABa	37.36	0.07	0.01	0.0	0.0
LAB*TCRa	25.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.75	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	1.0	1.0
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02	0.0	0.0
LAB*LABa	18.02	0.1	0.02	0.0	0.0
LAB*TCRa	0.01	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0	0.0
LAB*TCRa	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	0.25
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0	0.0	0.0
LAB*LABa	76.06	0.0	0.0	0.0	0.0
LAB*TCRa	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	0.0	0.0
lab*ch	0.75	0.0	0.0	0.0	0.0
lab*nch	0.25	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.5	0.5
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0	0.0	0.0
LAB*LABa	56.71	0.0	0.0	0.0	0.0
LAB*TCRa	50.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	0.0	0.0
lab*ch	0.5	0.0	0.0	0.0	0.0
lab*nch	0.5	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0	0.0	0.0
lab*nce	0.5	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.75	0.75
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01	0.0	0.0
LAB*LABa	37.36	0.07	0.01	0.0	0.0
LAB*TCRa	25.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*ch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.75	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*nce	0.25	0.0	0.0	0.0	0.0
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	1.0	1.0
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02	0.0	0.0
LAB*LABa	18.02	0.1	0.02	0.0	0.0
LAB*TCRa	0.01	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0	0.0
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

MRS18a; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
a	RMa	49.63	66.8	40.02	77.87	31
	JMa	90.7	-7.27	93.19	93.48	94
	CMa	52.11	-69.93	11.26	70.85	171
	G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
	B _{Ma}	36.65	23.26	-62.27	66.49	290
	B50R _{Ma}	34.94	57.27	-43.6	71.99	323
	N _{Ma}	18.01	0.0	0.0	0.0	0
	W _{Ma}	95.41	0.0	0.0	0.0	0
	R _{CIE}	39.92	58.67	27.97	64.99	25
J _{CIE}	81.26	-2.91	71.56	71.62	92	
G _{CIE}	52.23	-42.47	13.58	44.6	162	
B _{CIE}	30.57	1.33	-46.48	46.51	272	

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

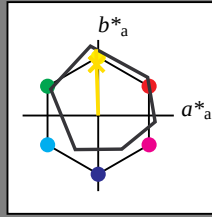
LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

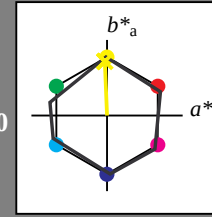
LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

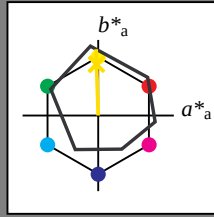
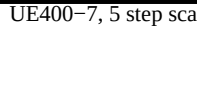
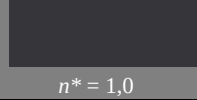
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

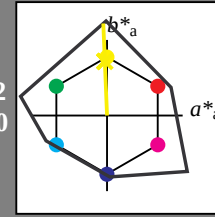
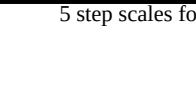
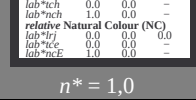
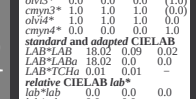
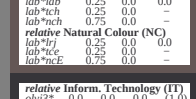
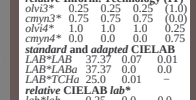
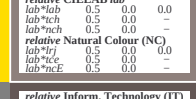
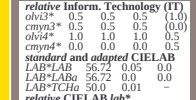
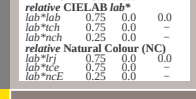
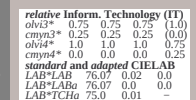
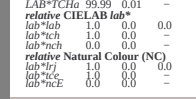
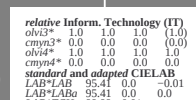
D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

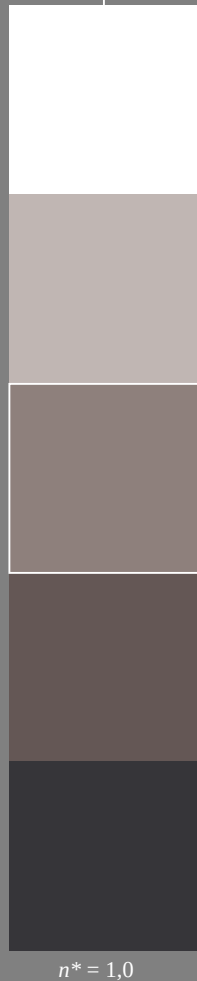
D65: hue J

LCH*Ma: 86 88 92

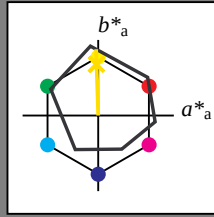
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

blackness n^*

$n^* = 0,50$

$n^* = 0,25$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

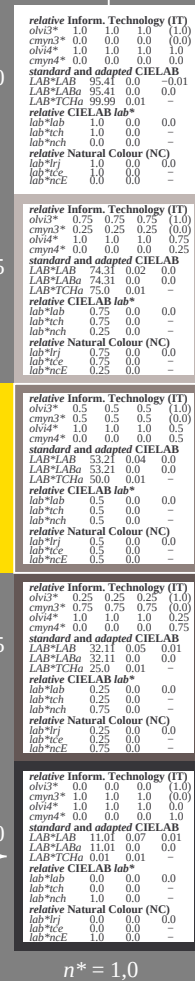
D65: hue J

LCH*Ma: 53 83 92

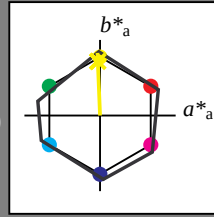
rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

blackness n^*

$n^* = 0,50$

$n^* = 0,25$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIE LAB hue 92/360 = 0.255 (left)

5 step scales for constant CIE LAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

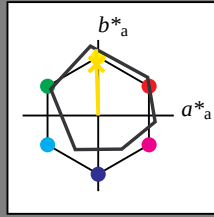
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

1,00

0,75

$n^* = 0,00$

0,25

0,00

$n^* = 1,0$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

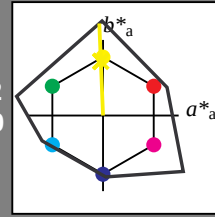
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

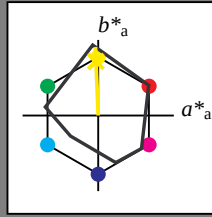
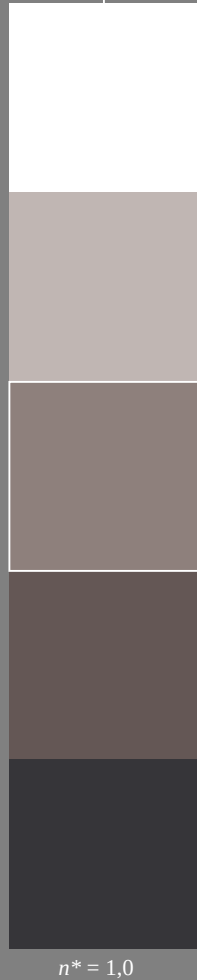
D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

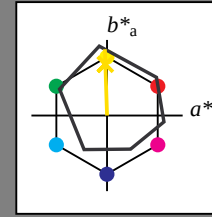
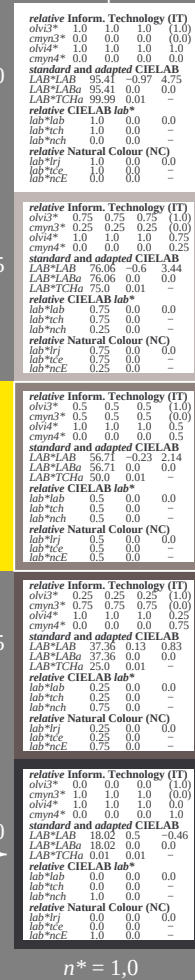
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

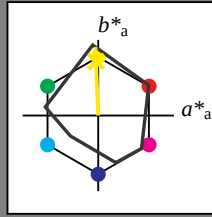
LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

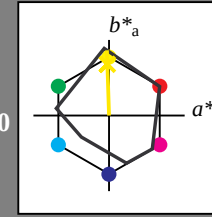
LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	95.41	0.0	0.0		
LAB*LABc	95.41	0.0	0.0		
LAB*LABd	95.41	0.0	0.0		
LAB*LABe	95.41	0.0	0.0		
LAB*LABf	95.41	0.0	0.0		
LAB*LABg	95.41	0.0	0.0		
LAB*LABh	95.41	0.0	0.0		
LAB*LABi	95.41	0.0	0.0		
LAB*LABj	95.41	0.0	0.0		
LAB*LABk	95.41	0.0	0.0		
LAB*LABl	95.41	0.0	0.0		
LAB*LABm	95.41	0.0	0.0		
LAB*LABn	95.41	0.0	0.0		
LAB*LABo	95.41	0.0	0.0		
LAB*LABp	95.41	0.0	0.0		
LAB*LABq	95.41	0.0	0.0		
LAB*LABr	95.41	0.0	0.0		
LAB*LABs	95.41	0.0	0.0		
LAB*LABt	95.41	0.0	0.0		
LAB*LABu	95.41	0.0	0.0		
LAB*LABv	95.41	0.0	0.0		
LAB*LABw	95.41	0.0	0.0		
LAB*LABx	95.41	0.0	0.0		
LAB*LABy	95.41	0.0	0.0		
LAB*LABz	95.41	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*LABb	76.06	0.0	0.0		
LAB*LABc	76.06	0.0	0.0		
LAB*LABd	76.06	0.0	0.0		
LAB*LABe	76.06	0.0	0.0		
LAB*LABf	76.06	0.0	0.0		
LAB*LABg	76.06	0.0	0.0		
LAB*LABh	76.06	0.0	0.0		
LAB*LABi	76.06	0.0	0.0		
LAB*LABj	76.06	0.0	0.0		
LAB*LABk	76.06	0.0	0.0		
LAB*LABl	76.06	0.0	0.0		
LAB*LABm	76.06	0.0	0.0		
LAB*LABn	76.06	0.0	0.0		
LAB*LABo	76.06	0.0	0.0		
LAB*LABp	76.06	0.0	0.0		
LAB*LABq	76.06	0.0	0.0		
LAB*LABr	76.06	0.0	0.0		
LAB*LABs	76.06	0.0	0.0		
LAB*LABt	76.06	0.0	0.0		
LAB*LABu	76.06	0.0	0.0		
LAB*LABv	76.06	0.0	0.0		
LAB*LABw	76.06	0.0	0.0		
LAB*LABx	76.06	0.0	0.0		
LAB*LABy	76.06	0.0	0.0		
LAB*LABz	76.06	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.738	0.5	(1.0)	
cmyn3*	0.25	0.262	0.5	(0.0)	
olvi4*	1.0	0.988	0.75	(1.0)	
cmyn4*	0.0	0.012	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.38	-1.25	2.491		
LAB*LABa	74.38	-0.68	2.157		
LAB*LABb	74.38	0.0	0.0		
LAB*LABc	74.38	0.0	0.0		
LAB*LABd	74.38	0.0	0.0		
LAB*LABe	74.38	0.0	0.0		
LAB*LABf	74.38	0.0	0.0		
LAB*LABg	74.38	0.0	0.0		
LAB*LABh	74.38	0.0	0.0		
LAB*LABi	74.38	0.0	0.0		
LAB*LABj	74.38	0.0	0.0		
LAB*LABk	74.38	0.0	0.0		
LAB*LABl	74.38	0.0	0.0		
LAB*LABm	74.38	0.0	0.0		
LAB*LABn	74.38	0.0	0.0		
LAB*LABo	74.38	0.0	0.0		
LAB*LABp	74.38	0.0	0.0		
LAB*LABq	74.38	0.0	0.0		
LAB*LABr	74.38	0.0	0.0		
LAB*LABs	74.38	0.0	0.0		
LAB*LABt	74.38	0.0	0.0		
LAB*LABu	74.38	0.0	0.0		
LAB*LABv	74.38	0.0	0.0		
LAB*LABw	74.38	0.0	0.0		
LAB*LABx	74.38	0.0	0.0		
LAB*LABy	74.38	0.0	0.0		
LAB*LABz	74.38	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*LABb	56.71	0.0	0.0		
LAB*LABc	56.71	0.0	0.0		
LAB*LABd	56.71	0.0	0.0		
LAB*LABe	56.71	0.0	0.0		
LAB*LABf	56.71	0.0	0.0		
LAB*LABg	56.71	0.0	0.0		
LAB*LABh	56.71	0.0	0.0		
LAB*LABi	56.71	0.0	0.0		
LAB*LABj	56.71	0.0	0.0		
LAB*LABk	56.71	0.0	0.0		
LAB*LABl	56.71	0.0	0.0		
LAB*LABm	56.71	0.0	0.0		
LAB*LABn	56.71	0.0	0.0		
LAB*LABo	56.71	0.0	0.0		
LAB*LABp	56.71	0.0	0.0		
LAB*LABq	56.71	0.0	0.0		
LAB*LABr	56.71	0.0	0.0		
LAB*LABs	56.71	0.0	0.0		
LAB*LABt	56.71	0.0	0.0		
LAB*LABu	56.71	0.0	0.0		
LAB*LABv	56.71	0.0	0.0		
LAB*LABw	56.71	0.0	0.0		
LAB*LABx	56.71	0.0	0.0		
LAB*LABy	56.71	0.0	0.0		
LAB*LABz	56.71	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.488	0.25	(1.0)	
cmyn3*	0.5	0.512	0.25	(0.0)	
olvi4*	1.0	0.988	0.75	(1.0)	
cmyn4*	0.0	0.012	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	55.03	-0.89	2.36		
LAB*LABa	55.03	-0.68	2.157		
LAB*LABb	55.03	0.0	0.0		
LAB*LABc	55.03	0.0	0.0		
LAB*LABd	55.03	0.0	0.0		
LAB*LABe	55.03	0.0	0.0		
LAB*LABf	55.03	0.0	0.0		
LAB*LABg	55.03	0.0	0.0		
LAB*LABh	55.03	0.0	0.0		
LAB*LABi	55.03	0.0	0.0		
LAB*LABj	55.03	0.0	0.0		
LAB*LABk	55.03	0.0	0.0		
LAB*LABl	55.03	0.0	0.0		
LAB*LABm	55.03	0.0	0.0		
LAB*LABn	55.03	0.0	0.0		
LAB*LABo	55.03	0.0	0.0		
LAB*LABp	55.03	0.0	0.0		
LAB*LABq	55.03	0.0	0.0		
LAB*LABr	55.03	0.0	0.0		
LAB*LABs	55.03	0.0	0.0		
LAB*LABt	55.03	0.0	0.0		
LAB*LABu	55.03	0.0	0.0		
LAB*LABv	55.03	0.0	0.0		
LAB*LABw	55.03	0.0	0.0		
LAB*LABx	55.03	0.0	0.0		
LAB*LABy	55.03	0.0	0.0		
LAB*LABz	55.03	0.0	0.0		

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	0.25
cmyn4*	0.0	0.0	0.0	0.75
standard and adapted CIELAB				
LAB*LAB	37.36	0.13	0.83	
LAB*LABa	37.36	0.0	0.0	

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

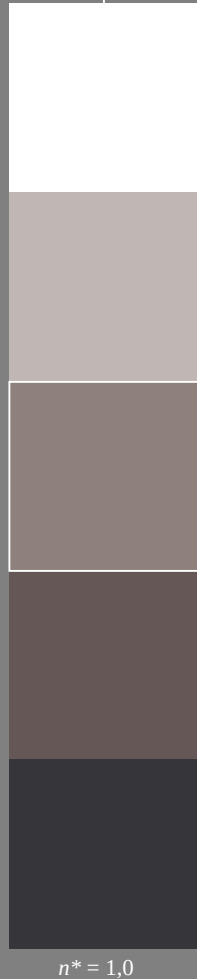
D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

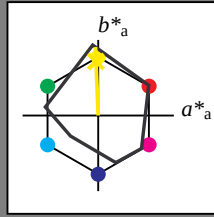
triangle lightness

1,00



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

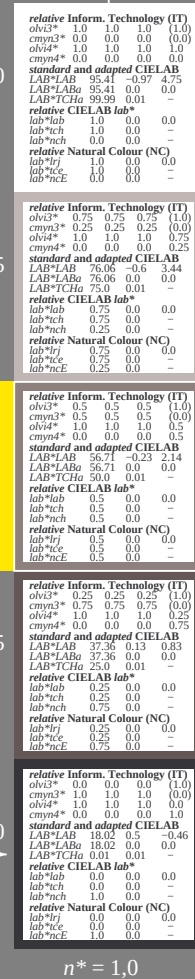
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

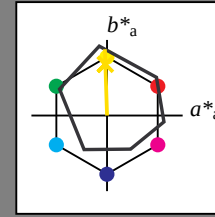
triangle lightness

1,00



$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

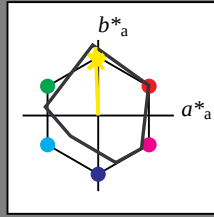
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

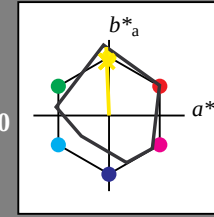
$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

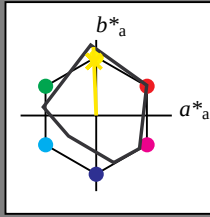
LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

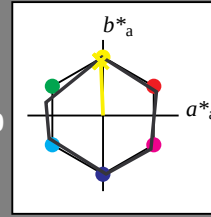
LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

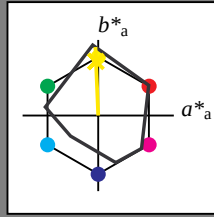
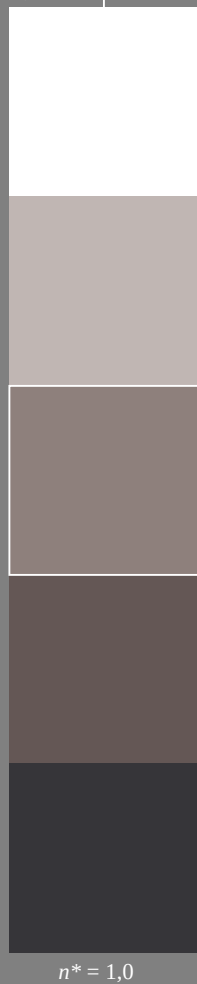
D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



MRS18a; adapted (a) CIELAB data					
	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

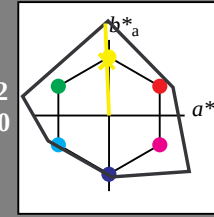
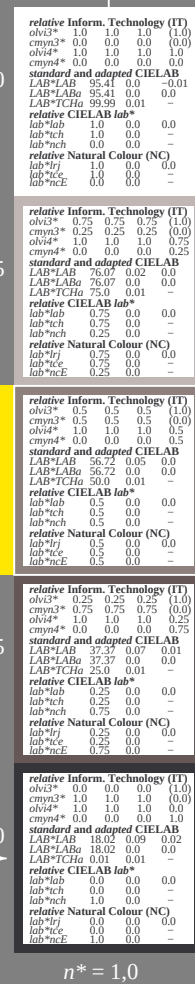
D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00



NCS18; adapted (a) CIELAB data					
	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

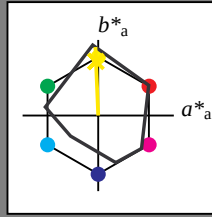
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

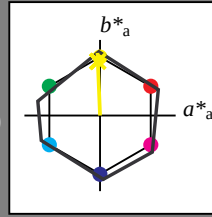
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue $92/360 = 0.256$ (left)

5 step scales for constant CIELAB hue $92/360 = 0.256$ (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

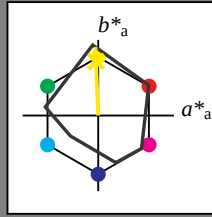
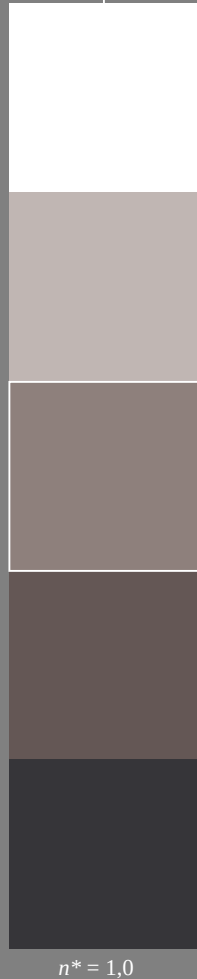
D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

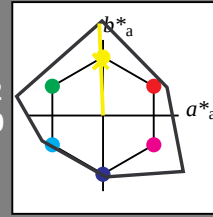
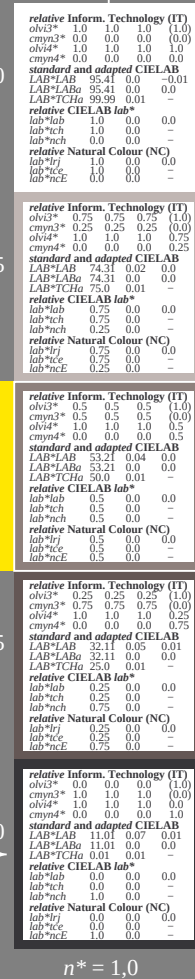
D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

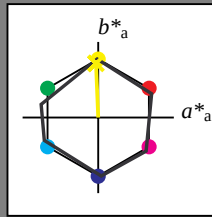
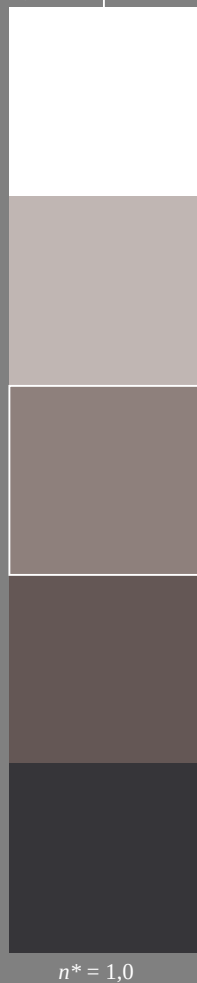
D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	56.7	70.66	31.47	77.35	24	
JMa	56.7	-1.39	77.37	77.39	91	
GMa	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
NMa	18.01	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

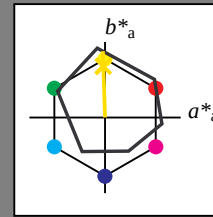
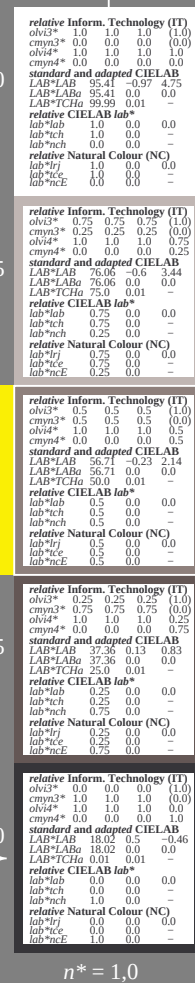
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
OMa	47.94	65.37	50.52	82.62	38	
YMa	90.37	-10.27	91.77	92.34	96	
LMa	50.9	-62.79	34.95	71.87	151	
CMa	58.62	-30.35	-45.01	54.3	236	
VMa	25.71	31.11	-44.42	54.24	305	
MMa	48.13	75.27	-8.35	75.73	354	
NMa	18.01	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.66	26.98	64.56	25	
JCIE	81.26	-2.17	67.76	67.79	92	
GCIE	52.23	-42.26	11.75	43.87	164	
BCIE	30.57	1.15	-46.84	46.87	271	

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

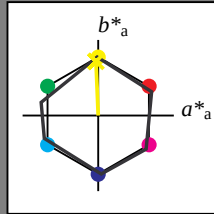
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

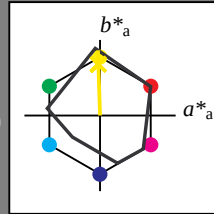
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

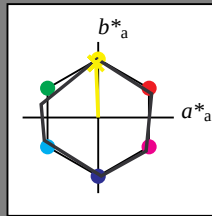
LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

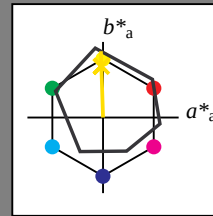
LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)
 $olvi3^* = 1.0$
 $cmyn3^* = 0.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 95.41$
 $LAB^*LABa = 95.41$
 $LAB^*TCha = 99.99$
 relative CIELAB lab*
 $lab^*lab = 1.0$
 $lab^*tch = 1.0$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 1.0$
 $lab^*tce = 0.0$
 $lab^*nce = 0.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.75$
 $cmyn3^* = 0.25$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 76.06$
 $LAB^*LABa = 76.06$
 $LAB^*TCha = 75.01$
 relative CIELAB lab*
 $lab^*lab = 0.75$
 $lab^*tch = 0.75$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.75$
 $lab^*tce = 0.25$
 $lab^*nce = 0.25$

relative Inform. Technology (IT)
 $olvi3^* = 0.5$
 $cmyn3^* = 0.5$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 56.71$
 $LAB^*LABa = 56.71$
 $LAB^*TCha = 50.01$
 relative CIELAB lab*
 $lab^*lab = 0.5$
 $lab^*tch = 0.5$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.5$
 $lab^*tce = 0.5$
 $lab^*nce = 0.5$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.36$
 $LAB^*LABa = 37.36$
 $LAB^*TCha = 25.01$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*LABa = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.25$
 $cmyn3^* = 0.75$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 37.36$
 $LAB^*LABa = 37.36$
 $LAB^*TCha = 25.01$
 relative CIELAB lab*
 $lab^*lab = 0.25$
 $lab^*tch = 0.25$
 $lab^*nch = 0.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.25$
 $lab^*tce = 0.75$
 $lab^*nce = 0.75$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*LABa = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*LABa = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

relative Inform. Technology (IT)
 $olvi3^* = 0.0$
 $cmyn3^* = 1.0$
 $olvi4^* = 1.0$
 $cmyn4^* = 0.0$
 standard and adapted CIELAB
 $LAB^*LAB = 18.02$
 $LAB^*LABa = 18.02$
 $LAB^*TCha = 0.01$
 relative CIELAB lab*
 $lab^*lab = 0.0$
 $lab^*tch = 0.0$
 $lab^*nch = 1.0$
 relative Natural Colour (NC)
 $lab^*trj = 0.0$
 $lab^*tce = 0.0$
 $lab^*nce = 1.0$

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

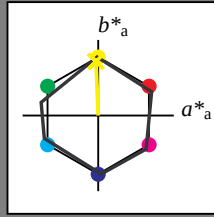
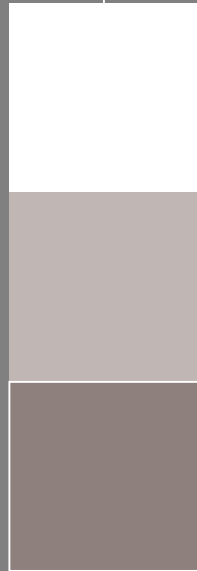
D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0		
LAB*LABa	76.06	0.0	0.0		
LAB*TC _{Ha}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.0	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TC _{Ha}	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.0	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01		
LAB*LABa	37.36	0.07	0.01		
LAB*TC _{Ha}	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.0	0.0	0.0		
relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.1	0.02		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

1,00

relative Inform. Technology (IT)					U* _{rel}
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	93.41	0.01	0.0		
LAB*LABa	93.41	0.01	0.0		
LAB*TC _{Ha}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	1.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.5	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.03	0.0		
LAB*LABa	76.06	0.03	0.0		
LAB*TC _{Ha}	75.00	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.75	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0		
LAB*LABa	56.71	0.0	0.0		
LAB*TC _{Ha}	50.00	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	1.75	1.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	75.00	0.01	0.01		
LAB*LABa	37.36	0.0	0.0		
LAB*TC _{Ha}	25.00	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.1	0.02		
LAB*LABa	18.02	0.0	0.0		
LAB*TC _{Ha}	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		
relative Inform. Technology (IT)					
olvi3*	0.25	0.238	0.0	(1.0)	
cmyn3*	0.75	0.762	1.0	(0.0)	
olvi4*	1.0	0.988	0.75	(1.0)	
cmyn4*	0.0	0.012	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	55.03	-0.91	22.66		
LAB*LABa	55.03	-0.91	22.66		
LAB*TC _{Ha}	37.5	22.67	92.33		
relative CIELAB lab*					
lab*lab	0.478	-0.009	0.25		
lab*ch	0.375	0.25	0.256		
lab*nch	0.25	0.25	0.256		
relative Natural Colour (NC)					
lab*trj	0.478	0.0	0.25		
lab*nce	0.375	0.25	0.25		
lab*nce	0.5	0.25	0.991		
relative Inform. Technology (IT)					
olvi3*	0.25	0.238	0.0	(1.0)	
cmyn3*	0.75	0.762	1.0	(0.0)	
olvi4*	1.0	0.988	0.75	(1.0)	
cmyn4*	0.0	0.012	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	35.68	-0.84	22.67		
LAB*LABa	35.68	-0.91	22.66		
LAB*TC _{Ha}	12.5	22.67	92.33		
relative CIELAB lab*					
lab*lab	0.228	-0.009	0.25		
lab*ch	0.125	0.25	0.256		
lab*nch	0.75	0.25	0.256		
relative Natural Colour (NC)					
lab*trj	0.228	0.0	0.25		
lab*nce	0.125	0.25	0.25		
lab*nce	0.75	0.25	0.991		
relative Inform. Technology (IT)					
olvi3*	0.5	0.476	0.0	(1.0)	
cmyn3*	0.5	0.524	1.0	(0.0)	
olvi4*	1.0	0.976	0.5	(1.0)	
cmyn4*	0.0	0.024	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.36	-1.78	45.32		
LAB*LABa	53.36	-1.84	45.3		
LAB*TC _{Ha}	25.01	45.34	92.33		
relative CIELAB lab*					
lab*lab	0.457	-0.019	0.499		
lab*ch	0.25	0.5	0.256		
lab*nch	0.5	0.5	0.256		
relative Natural Colour (NC)					
lab*trj	0.457	0.0	0.25		
lab*nce	0.25	0.5	0.25		
lab*nce	0.5	0.5	0.991		
relative Inform. Technology (IT)					
olvi3*	1.0	0.964	0.25	(1.0)	
cmyn3*	0.0	0.036	0.75	(0.0)	
olvi4*	1.0	0.964	0.25	(1.0)	
cmyn4*	0.0	0.036	0.75	(0.0)	
standard and adapted CIELAB					
LAB*LAB	30.38	-2.72	67.96		
LAB*LABa	30.38	-2.77	67.96		
LAB*TC _{Ha}	62.5	68.02	92.34		
relative CIELAB lab*					
lab*lab	0.935	-0.03	0.499		
lab*ch	0.625	0.75	0.256		
lab*nch	0.0	0.75	0.256		
relative Natural Colour (NC)					
lab*trj	0.935	0.0	0.25		
lab*nce	0.625				

0,25

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

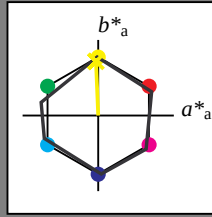
LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	56.7	70.66	31.47	77.35	24	
JMa	56.7	-1.39	77.37	77.39	91	
GMa	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
NMa	18.01	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

$n^* = 0,50$

0,75

$n^* = 0,75$

1,00

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

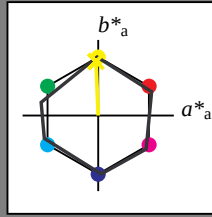
LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	56.7	70.66	31.47	77.35	24	
JMa	56.7	-1.39	77.37	77.39	91	
GMa	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
NMa	18.01	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

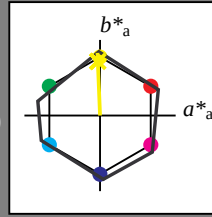
LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)						
olvi3*	1.0	1.0	1.0	(1.0)		
cmyn3*	0.0	0.0	0.0	(0.0)		
olvi4*	1.0	1.0	1.0	(1.0)		
cmyn4*	0.0	0.0	0.0	(0.0)		
standard and adapted CIELAB						
LAB*LAB	95.41	0.0	-0.01			
LAB*LABa	95.41	0.0	0.0			
LAB*TC _{Ha}	99.99	0.01	-			
relative CIELAB lab*						
lab*lab	1.0	0.0	0.0			
lab*tch	1.0	0.0	-			
lab*nch	0.0	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	1.0	0.0	0.0			
lab*tce	0.0	0.0	0.0			
lab*nce	0.0	0.0	-			

relative Inform. Technology (IT)						
olvi3*	0.75	0.75	0.75	(1.0)		
cmyn3*	0.25	0.25	0.25	(0.0)		
olvi4*	1.0	1.0	1.0	(1.0)		
cmyn4*	0.0	0.0	0.0	(0.0)		
standard and adapted CIELAB						
LAB*LAB	74.31	0.0	0.0			
LAB*LABa	74.31	0.0	0.0			
LAB*TC _{Ha}	75.0	0.01	-			
relative CIELAB lab*						
lab*lab	0.75	0.0	0.0			
lab*tch	0.75	0.0	-			
lab*nch	0.25	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	0.75	0.0	0.0			
lab*tce	0.25	0.0	0.0			
lab*nce	0.25	0.0	-			

relative Inform. Technology (IT)						
olvi3*	0.5	0.5	0.5	(1.0)		
cmyn3*	0.5	0.5	0.5	(0.0)		
olvi4*	1.0	1.0	1.0	(1.0)		
cmyn4*	0.0	0.0	0.0	(0.0)		
standard and adapted CIELAB						
LAB*LAB	53.21	0.0	0.0			
LAB*LABa	53.21	0.0	0.0			
LAB*TC _{Ha}	50.0	0.01	-			
relative CIELAB lab*						
lab*lab	0.5	0.0	0.0			
lab*tch	0.5	0.0	-			
lab*nch	0.5	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	0.5	0.0	0.0			
lab*tce	0.5	0.0	0.0			
lab*nce	0.5	0.0	-			

relative Inform. Technology (IT)						
olvi3*	0.25	0.25	0.25	(1.0)		
cmyn3*	0.75	0.75	0.75	(0.0)		
olvi4*	1.0	1.0	1.0	(1.0)		
cmyn4*	0.0	0.0	0.0	(0.0)		
standard and adapted CIELAB						
LAB*LAB	32.11	0.05	0.01			
LAB*LABa	32.11	0.05	0.01			
LAB*TC _{Ha}	25.0	0.01	-			
relative CIELAB lab*						
lab*lab	0.25	0.0	0.0			
lab*tch	0.25	0.0	-			
lab*nch	0.25	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	0.25	0.0	0.0			
lab*tce	0.25	0.0	0.0			
lab*nce	0.25	0.0	-			

relative Inform. Technology (IT)						
olvi3*	0.0	0.0	0.0	(1.0)		
cmyn3*	1.0	1.0	1.0	(0.0)		
olvi4*	1.0	1.0	1.0	(1.0)		
cmyn4*	0.0	0.0	0.0	(0.0)		
standard and adapted CIELAB						
LAB*LAB	11.01	0.07	0.01			
LAB*LABa	11.01	0.07	0.01			
LAB*TC _{Ha}	0.01	0.01	-			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	-			
lab*nch	1.0	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	0.0	0.0	0.0			
lab*tce	0.0	0.0	0.0			
lab*nce	1.0	0.0	-			

relative Inform. Technology (IT)						
olvi3*	0.494	0.5	0.25	(1.0)		
cmyn3*	0.506	0.5	0.25	(0.0)		
olvi4*	0.984	1.0	0.25	(1.0)		
cmyn4*	0.006	0.0	0.25	(0.0)		
standard and adapted CIELAB						
LAB*LAB	42.65	-0.78	20.73			
LAB*LABa	42.65	-0.83	20.72			
LAB*TC _{Ha}	37.5	20.74	92.33			
relative CIELAB lab*						
lab*lab	0.375	-0.009	0.25			
lab*tch	0.375	0.25	0.256			
lab*nch	0.5	0.25	0.256			
relative Natural Colour (NC)						
lab*trj	0.375	0.0	0.25			
lab*tce	0.375	0.25	0.25			
lab*nce	0.5	0.25	0.256			

relative Inform. Technology (IT)						
olvi3*	0.244	0.25	0.0	(1.0)		
cmyn3*	0.756	0.75	1.0	(0.0)		
olvi4*	0.994	1.0	0.75	(1.0)		
cmyn4*	0.006	0.0	0.25	(0.0)		
standard and adapted CIELAB						
LAB*LAB	21.55	-0.76	20.73			
LAB*LABa	21.55	-0.83	20.71			
LAB*TC _{Ha}	12.5	20.73	92.33			
relative CIELAB lab*						
lab*lab	0.125	-0.009	0.25			
lab*tch	0.125	0.25	0.256			
lab*nch	0.75	0.25	0.256			
relative Natural Colour (NC)						
lab*trj	0.125	0.0	0.25			
lab*tce	0.125	0.25	0.25			
lab*nce	0.75	0.25	0.256			

relative Inform. Technology (IT)						
olvi3*	0.0	0.0	0.0	(1.0)		
cmyn3*	1.0	1.0	1.0	(0.0)		
olvi4*	1.0	1.0	1.0	(1.0)		
cmyn4*	0.0	0.0	0.0	(0.0)		
standard and adapted CIELAB						
LAB*LAB	11.01	0.07	0.01			
LAB*LABa	11.01	0.07	0.01			
LAB*TC _{Ha}	0.01	0.01	-			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	-			
lab*nch	1.0	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	0.0	0.0	0.0			
lab*tce	0.0	0.0	0.0			
lab*nce	1.0	0.0	-			

relative Inform. Technology (IT)						
olvi3*	0.0	0.0	0.0	(1.0)		
cmyn3*	1.0	1.0	1.0	(0.0)		
olvi4*	1.0	1.0	1.0	(1.0)		
cmyn4*	0.0	0.0	0.0	(0.0)		
standard and adapted CIELAB						
LAB*LAB	11.01	0.07	0.01			
LAB*LABa	11.01	0.07	0.01			
LAB*TC _{Ha}	0.01	0.01	-			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	-			
lab*nch	1.0	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	0.0	0.0	0.0			
lab*tce	0.0	0.0	0.0			
lab*nce	1.0	0.0	-			

<i>lab*tcn</i>	0.0	0.0	–
<i>lab*nch</i>	1.0	0.0	–
relative Natural Colour (NC)			
<i>lab*lrj</i>	0.0	0.0	0.0
<i>lab*tce</i>	0.0	0.0	–
<i>lab*nce</i>	1.0	0.0	–

$n^* \equiv 1.0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

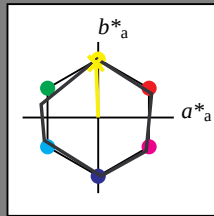
D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R _{Ma}	56.7	70.66	31.47	77.35	24	
J _{Ma}	56.7	-1.39	77.37	77.39	91	
G _{Ma}	56.7	-75.46	17.4	77.45	167	
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203	
B _{Ma}	56.7	4.0	-77.3	77.41	273	
B50R _{Ma}	56.7	63.35	-44.4	77.36	325	
N _{Ma}	18.01	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.67	27.97	64.99	25	
JCIE	81.26	-2.91	71.56	71.62	92	
GCIE	52.23	-42.47	13.58	44.6	162	
BCIE	30.57	1.33	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 1,0$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,75$

$n^* = 0,50$

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

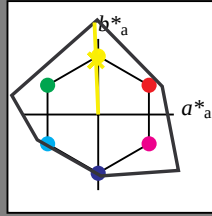
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

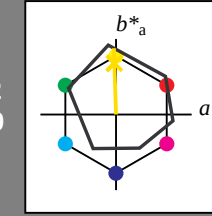
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

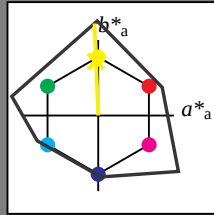
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

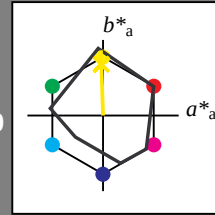
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	4.75	
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	95.41	0.0	0.0		
LAB*LABc	95.41	0.0	0.0		
LAB*LABd	95.41	0.0	0.0		
LAB*LABe	95.41	0.0	0.0		
LAB*LABf	95.41	0.0	0.0		
LAB*LABg	95.41	0.0	0.0		
LAB*LABh	95.41	0.0	0.0		
LAB*LABi	95.41	0.0	0.0		
LAB*LABj	95.41	0.0	0.0		
LAB*LABk	95.41	0.0	0.0		
LAB*LABl	95.41	0.0	0.0		
LAB*LABm	95.41	0.0	0.0		
LAB*LABn	95.41	0.0	0.0		
LAB*LABo	95.41	0.0	0.0		
LAB*LABp	95.41	0.0	0.0		
LAB*LABq	95.41	0.0	0.0		
LAB*LABr	95.41	0.0	0.0		
LAB*LABs	95.41	0.0	0.0		
LAB*LABt	95.41	0.0	0.0		
LAB*LABu	95.41	0.0	0.0		
LAB*LABv	95.41	0.0	0.0		
LAB*LABw	95.41	0.0	0.0		
LAB*LABx	95.41	0.0	0.0		
LAB*LABy	95.41	0.0	0.0		
LAB*LABz	95.41	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	0.0	3.44	
LAB*LABa	76.06	0.0	0.0		
LAB*LABb	76.06	0.0	0.0		
LAB*LABc	76.06	0.0	0.0		
LAB*LABd	76.06	0.0	0.0		
LAB*LABe	76.06	0.0	0.0		
LAB*LABf	76.06	0.0	0.0		
LAB*LABg	76.06	0.0	0.0		
LAB*LABh	76.06	0.0	0.0		
LAB*LABi	76.06	0.0	0.0		
LAB*LABj	76.06	0.0	0.0		
LAB*LABk	76.06	0.0	0.0		
LAB*LABl	76.06	0.0	0.0		
LAB*LABm	76.06	0.0	0.0		
LAB*LABn	76.06	0.0	0.0		
LAB*LABo	76.06	0.0	0.0		
LAB*LABp	76.06	0.0	0.0		
LAB*LABq	76.06	0.0	0.0		
LAB*LABr	76.06	0.0	0.0		
LAB*LABs	76.06	0.0	0.0		
LAB*LABt	76.06	0.0	0.0		
LAB*LABu	76.06	0.0	0.0		
LAB*LABv	76.06	0.0	0.0		
LAB*LABw	76.06	0.0	0.0		
LAB*LABx	76.06	0.0	0.0		
LAB*LABy	76.06	0.0	0.0		
LAB*LABz	76.06	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.0	0.0	2.14	
LAB*LABa	56.71	0.0	0.0		
LAB*LABb	56.71	0.0	0.0		
LAB*LABc	56.71	0.0	0.0		
LAB*LABd	56.71	0.0	0.0		
LAB*LABe	56.71	0.0	0.0		
LAB*LABf	56.71	0.0	0.0		
LAB*LABg	56.71	0.0	0.0		
LAB*LABh	56.71	0.0	0.0		
LAB*LABi	56.71	0.0	0.0		
LAB*LABj	56.71	0.0	0.0		
LAB*LABk	56.71	0.0	0.0		
LAB*LABl	56.71	0.0	0.0		
LAB*LABm	56.71	0.0	0.0		
LAB*LABn	56.71	0.0	0.0		
LAB*LABo	56.71	0.0	0.0		
LAB*LABp	56.71	0.0	0.0		
LAB*LABq	56.71	0.0	0.0		
LAB*LABr	56.71	0.0	0.0		
LAB*LABs	56.71	0.0	0.0		
LAB*LABt	56.71	0.0	0.0		
LAB*LABu	56.71	0.0	0.0		
LAB*LABv	56.71	0.0	0.0		
LAB*LABw	56.71	0.0	0.0		
LAB*LABx	56.71	0.0	0.0		
LAB*LABy	56.71	0.0	0.0		
LAB*LABz	56.71	0.0	0.0		

olvi3*	0.25	0.238	0.0	(1.0)
cmyn3*	0.75	0.762	1.0	(0.0)
olvi4*	1.0	0.988	0.75	0.25
cmyn4*	0.0	0.012	0.25	0.75
standard and adapted CIELAB				
LAB*LAB	35.68	-0.52	22.29	
LAB*LABa	35.68	-0.68	21.56	
LAB*TCha	12.5	21.57	91.84	
relative CIELAB lab*				
lab*lab	0.228	0.007	0.25	
lab*labh	0.125	0.25	0.25	
lab*nch	0.75	0.25	0.25	
relative Natural Colour (NC)				
lab*lrj	0.228	0.0	0.25	
lab*tc	0.125	0.25	0.25	
lab*nC	0.75	0.25	.991	

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

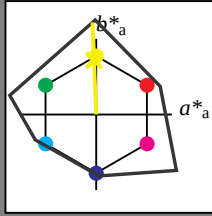
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

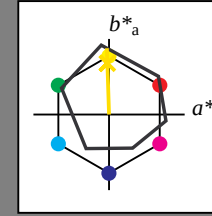
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	-0.97	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*rch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*rch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*rch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCRa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*rch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*rch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

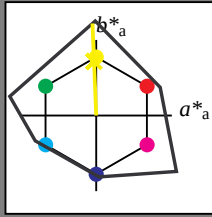
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

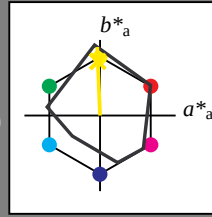
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

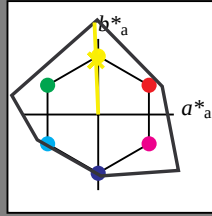
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

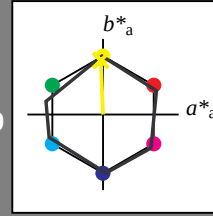
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

1,00
naticness c^*

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

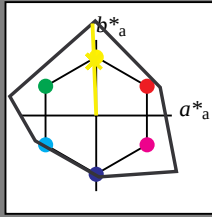
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

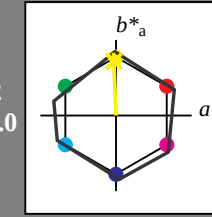
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TC _{Ma}	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TC _{Ma}	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5
standard and adapted CIELAB				
LAB*LAB	53.21	0.04	0.0	
LAB*LAB _a	53.21	0.0	0.0	

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

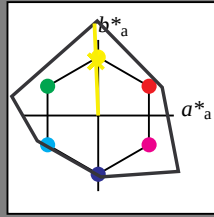
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

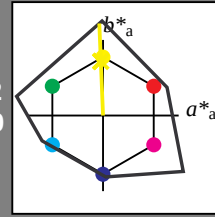
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

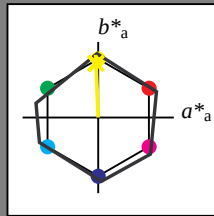
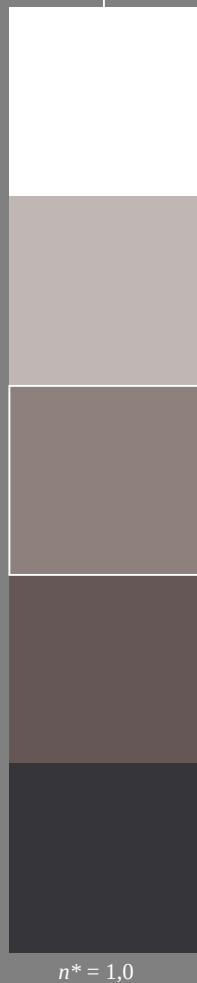
D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

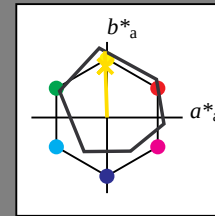
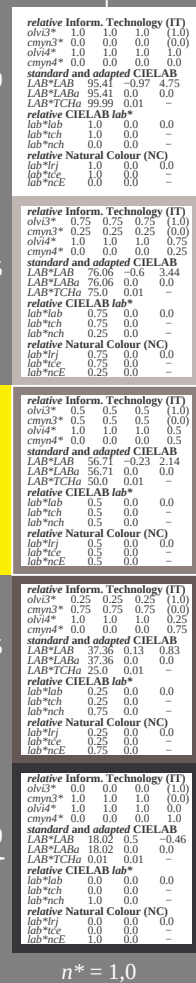
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

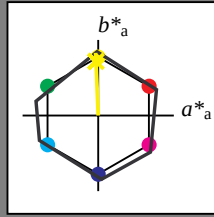
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

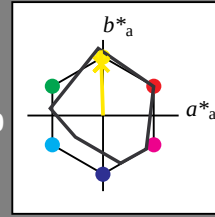
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

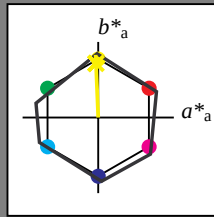
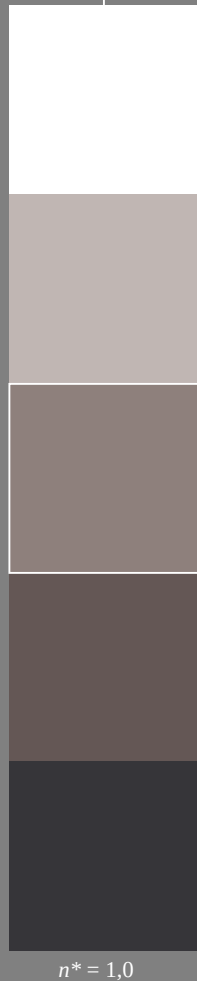
D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

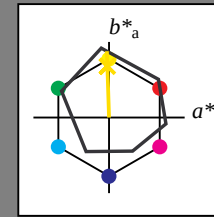
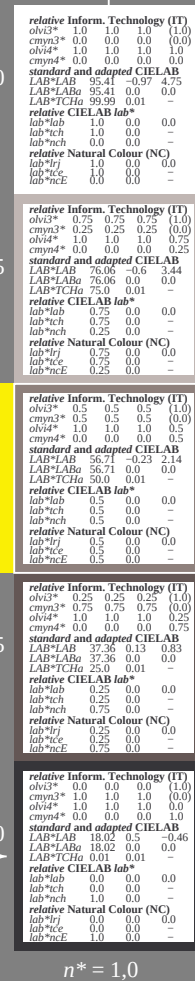
D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

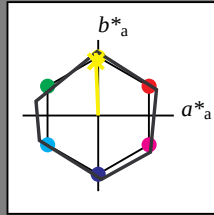
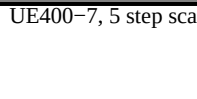
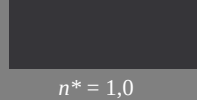
D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data

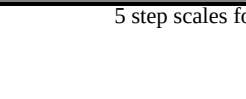
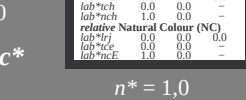
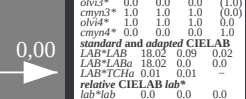
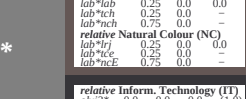
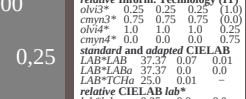
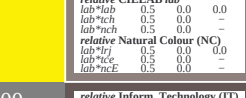
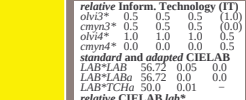
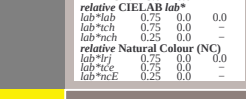
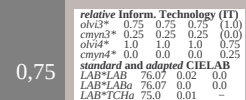
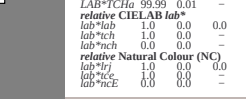
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00



Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

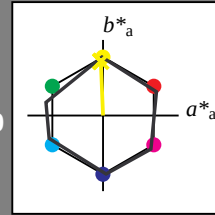
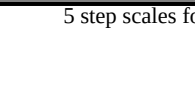
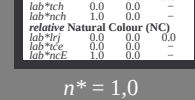
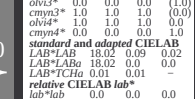
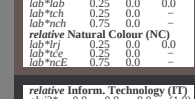
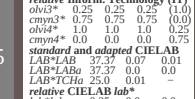
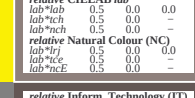
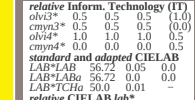
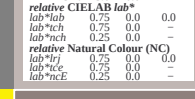
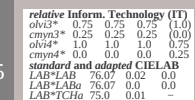
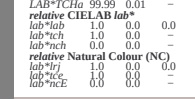
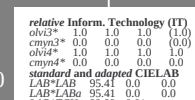
D65: hue J

LCH*Ma: 57 76 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

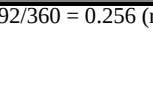
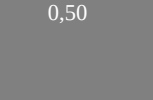
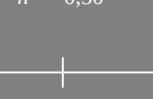
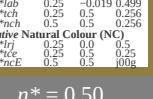
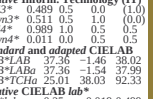
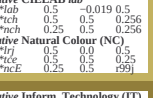
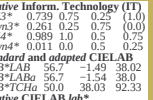
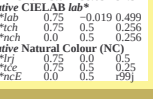
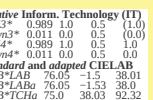
$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00



NRS18; adapted (a) CIELAB data

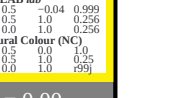
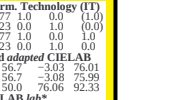
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00



UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

0,25

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

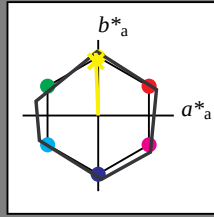
LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	53.2	77.06	34.32	84.36	24	
JMa	53.2	-1.51	84.38	84.39	91	
GMa	53.2	-82.27	18.98	84.44	167	
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203	
B _{Ma}	53.2	4.37	-84.28	84.41	273	
B50R _{Ma}	53.2	69.09	-48.41	84.37	325	
NMa	10.99	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)						
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$	$olvi8^*$
lab*lab	1.0	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	1.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	1.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	1.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	1.0

standard and adapted CIELAB						
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*LABc	LAB^*LABd	LAB^*LABe
lab*lab	74.31	0.0	0.0	0.0	0.0	0.0
lab*tch	74.31	0.0	0.0	0.0	0.0	0.0
lab*nch	74.31	0.0	0.0	0.0	0.0	0.0
lab*trj	74.31	0.0	0.0	0.0	0.0	0.0
lab*tce	74.31	0.0	0.0	0.0	0.0	0.0
lab*nce	74.31	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*						
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce	lab^*nce
lab*lab	0.75	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.75	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.75	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.75	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.75	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.75

relative Inform. Technology (IT)						
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$	$olvi8^*$
lab*lab	0.75	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.75	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.75	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.75	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.75	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.75

standard and adapted CIELAB						
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*LABc	LAB^*LABd	LAB^*LABe
lab*lab	63.75	0.0	0.0	0.0	0.0	0.0
lab*tch	63.75	0.0	0.0	0.0	0.0	0.0
lab*nch	63.75	0.0	0.0	0.0	0.0	0.0
lab*trj	63.75	0.0	0.0	0.0	0.0	0.0
lab*tce	63.75	0.0	0.0	0.0	0.0	0.0
lab*nce	63.75	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*						
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce	lab^*nce
lab*lab	0.625	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.625	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.625	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.625	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.625	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.625

relative Inform. Technology (IT)						
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$	$olvi8^*$
lab*lab	0.494	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.494	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.494	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.494	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.494	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.494

standard and adapted CIELAB						
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*LABc	LAB^*LABd	LAB^*LABe
lab*lab	53.21	0.0	0.0	0.0	0.0	0.0
lab*tch	53.21	0.0	0.0	0.0	0.0	0.0
lab*nch	53.21	0.0	0.0	0.0	0.0	0.0
lab*trj	53.21	0.0	0.0	0.0	0.0	0.0
lab*tce	53.21	0.0	0.0	0.0	0.0	0.0
lab*nce	53.21	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*						
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce	lab^*nce
lab*lab	0.25	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.25	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.25	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.25	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.25	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.25

relative Inform. Technology (IT)						
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$	$olvi8^*$
lab*lab	0.244	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.244	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.244	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.244	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.244	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.244

standard and adapted CIELAB						
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*LABc	LAB^*LABd	LAB^*LABe
lab*lab	21.55	0.0	0.0	0.0	0.0	0.0
lab*tch	21.55	0.0	0.0	0.0	0.0	0.0
lab*nch	21.55	0.0	0.0	0.0	0.0	0.0
lab*trj	21.55	0.0	0.0	0.0	0.0	0.0
lab*tce	21.55	0.0	0.0	0.0	0.0	0.0
lab*nce	21.55	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*						
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce	lab^*nce
lab*lab	0.125	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.125	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.125	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.125	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.125	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.125

relative Inform. Technology (IT)						
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$	$olvi8^*$
lab*lab	0.125	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.125	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.125	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.125	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.125	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.125

standard and adapted CIELAB						
	LAB^*LAB	LAB^*LABa	LAB^*LABb	LAB^*LABc	LAB^*LABd	LAB^*LABe
lab*lab	11.01	0.0	0.0	0.0	0.0	0.0
lab*tch	11.01	0.0	0.0	0.0	0.0	0.0
lab*nch	11.01	0.0	0.0	0.0	0.0	0.0
lab*trj	11.01	0.0	0.0	0.0	0.0	0.0
lab*tce	11.01	0.0	0.0	0.0	0.0	0.0
lab*nce	11.01	0.0	0.0	0.0	0.0	0.0

relative CIELAB lab*						
	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce	lab^*nce
lab*lab	0.0	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25 0,50 0,75 1,00

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

triangle lightness

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

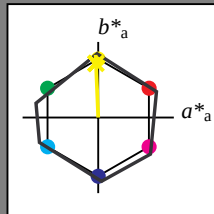
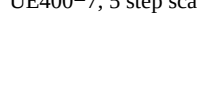
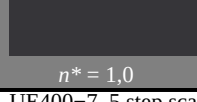
D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

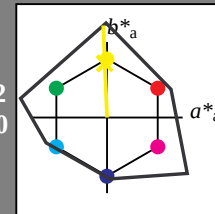
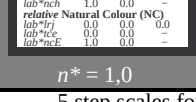
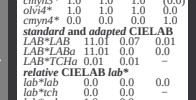
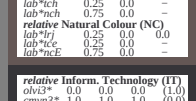
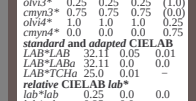
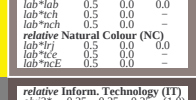
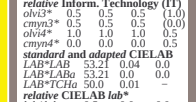
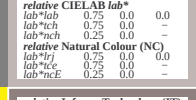
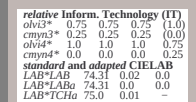
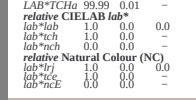
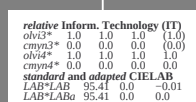
D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

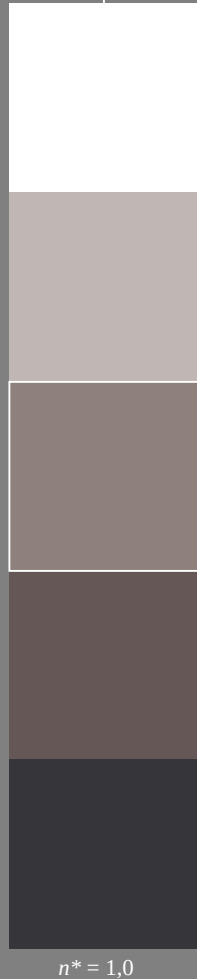
D65: hue J

LCH*Ma: 90 122 92

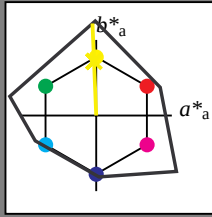
rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

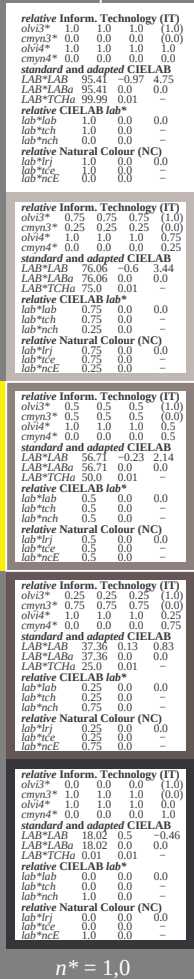
D65: hue J

LCH*Ma: 86 88 92

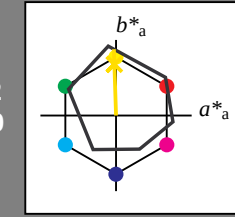
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00



$n^* = 1,0$



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

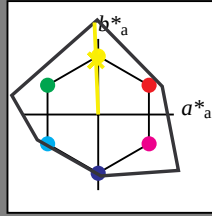
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

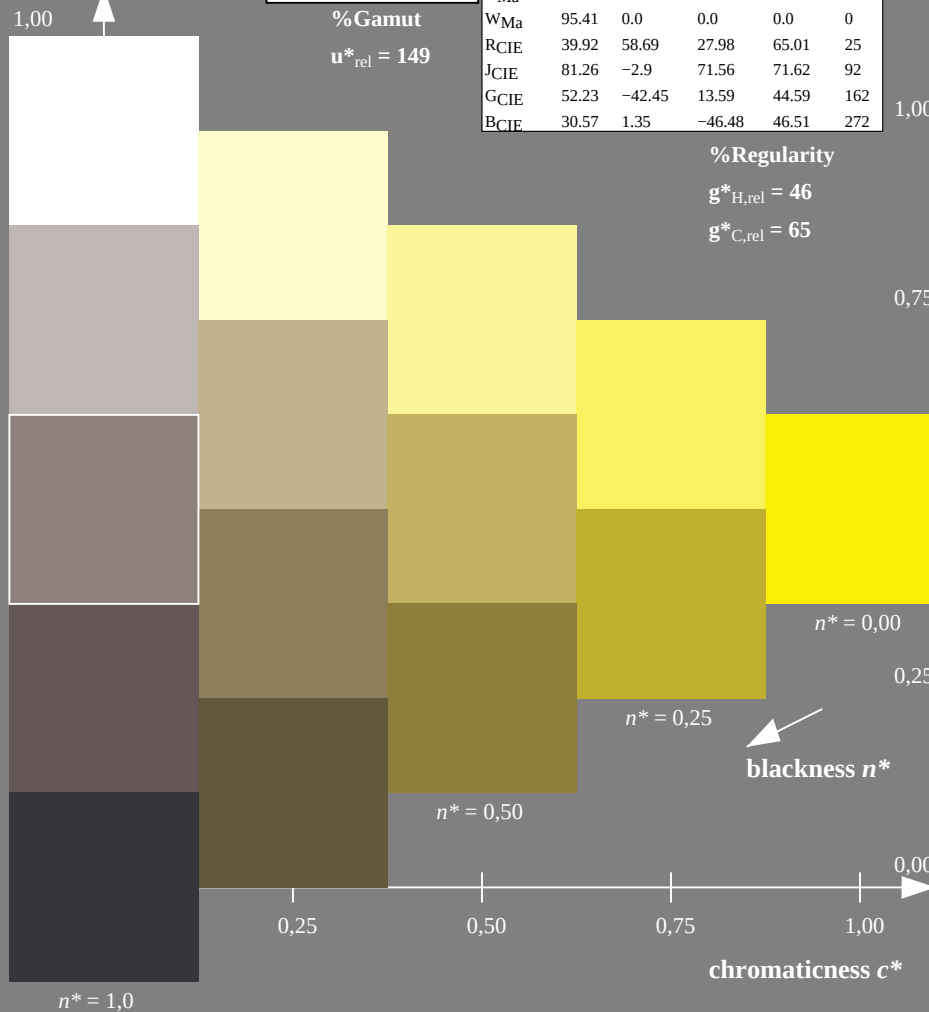
rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$



UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

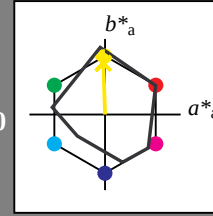
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

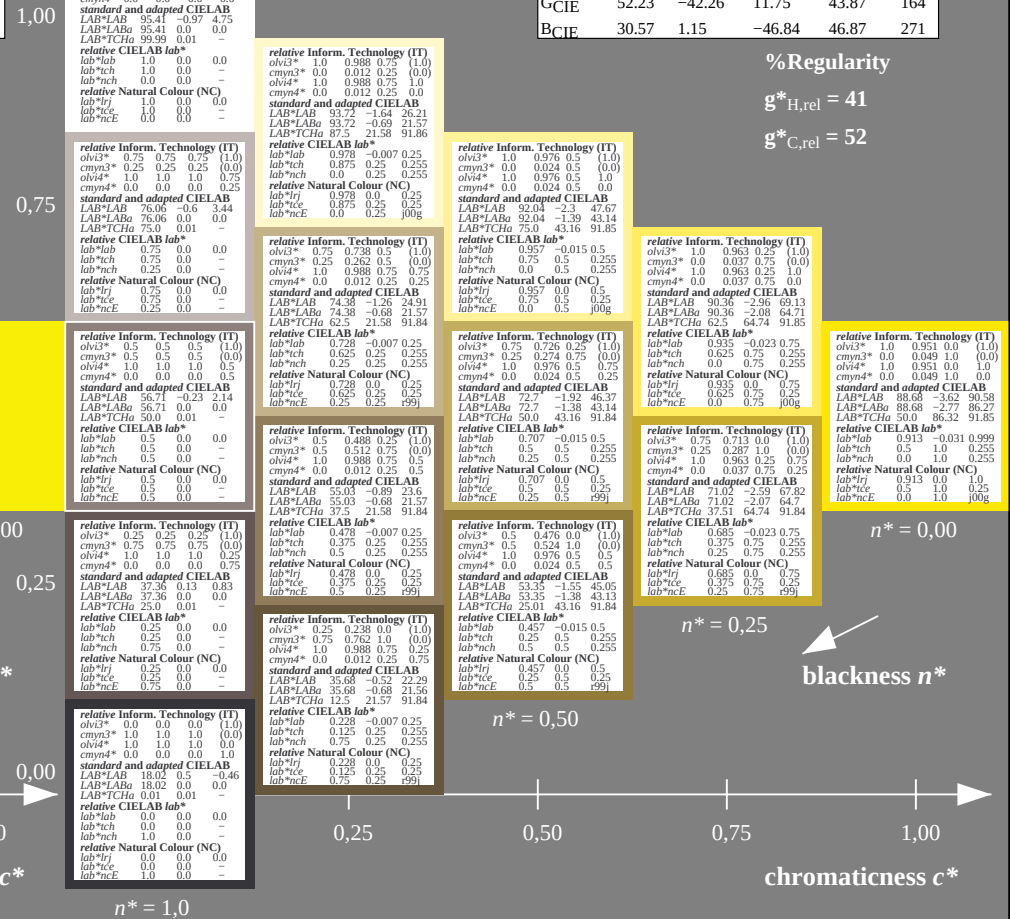
rgb*Ma: 1.0 0.95 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$



5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

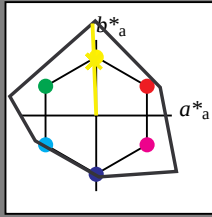
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

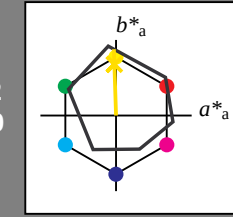
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

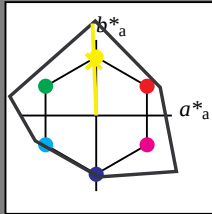
0,50

0,75

1,00

chromaticness c^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

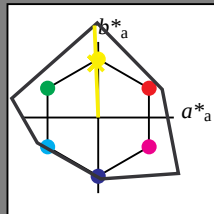
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 92/360 = 0.256$

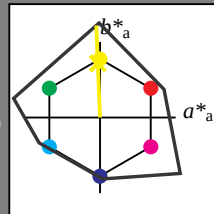
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

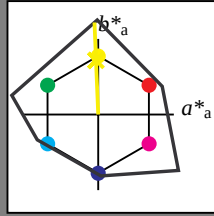
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 92/360 = 0.256$

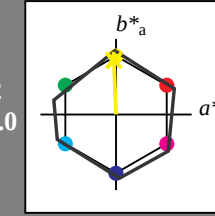
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	-0.01	-
LAB*LABa	95.41	0.0	0.0	-	-
LAB*TCHa	99.99	0.01	-	-	-
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	-	-
lab*tch	1.0	0.0	-	-	-
lab*nch	0.0	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0	-	-
lab*tce	0.0	0.0	-	-	-
lab*nce	0.0	0.0	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0	-	-
LAB*LABa	74.31	0.0	0.0	-	-
LAB*TCHa	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	-	-
lab*tch	0.75	0.0	-	-	-
lab*nch	0.25	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	-	-
lab*tce	0.25	0.0	-	-	-
lab*nce	0.25	0.0	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0	-	-
LAB*LABa	74.31	0.0	0.0	-	-
LAB*TCHa	75.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0	-	-
lab*tch	0.75	0.0	-	-	-
lab*nch	0.25	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0	-	-
lab*tce	0.25	0.0	-	-	-
lab*nce	0.25	0.0	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.25	(0.0)
standard and adapted CIELAB					
LAB*LAB	63.75	0.0	0.0	-	-
LAB*LABa	63.75	0.0	0.0	-	-
LAB*TCHa	62.5	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.625	0.0	0.0	-	-
lab*tch	0.625	0.0	-	-	-
lab*nch	0.25	0.0	-	-	-
relative Natural Colour (NC)					
lab*trj	0.625	0.0	0.0	-	-
lab*tce	0.25	0.0	-	-	-
lab*nce	0.25	0.0	-	-	-

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.5	(0.0)
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0	-	-
LAB*LABa	53.21	0.0	0.0	-	-
LAB*TCHa	50.0	0.01	-	-	-
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0	-	-
lab*tch	0.5	0.0	-	-	-

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

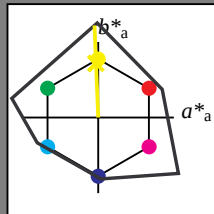
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

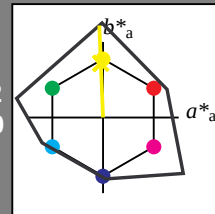
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

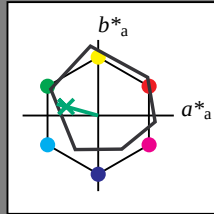
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

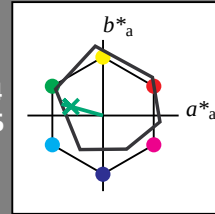
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

0,75

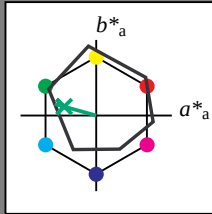
0,50

0,25

0,00

blackness n^*

chromaticness c^*



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

blackness n^*

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

0,75

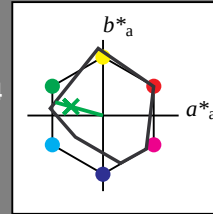
0,50

0,25

0,00

blackness n^*

chromaticness c^*



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

blackness n^*

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

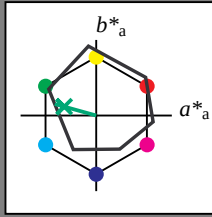
LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

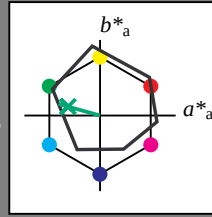
LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

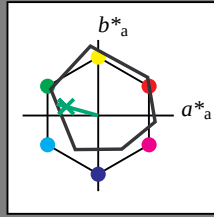
chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

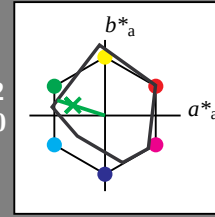
chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

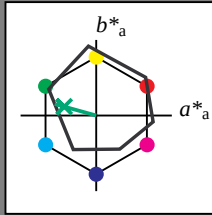
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

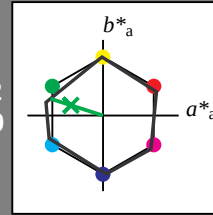
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

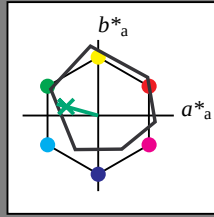
$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

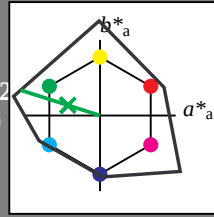
$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

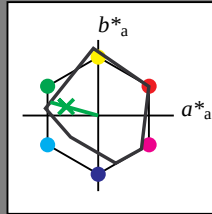
$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25 0,50 0,75 1,00

5 step scales for constant CIELAB hue 164/360 = 0.457 (left)



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

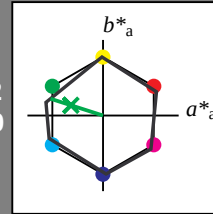
$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25 0,50 0,75 1,00

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)



NRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25 0,50 0,75 1,00

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

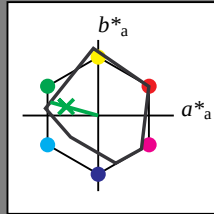
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

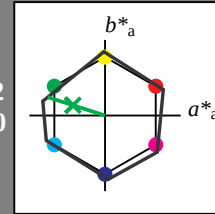
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

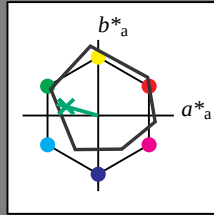
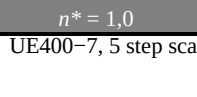
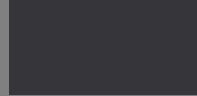
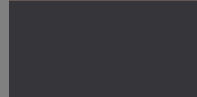
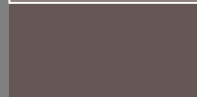
D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	0.0	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

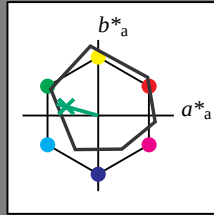
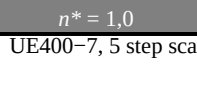
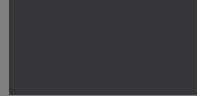
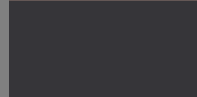
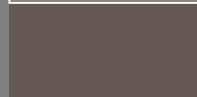
D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

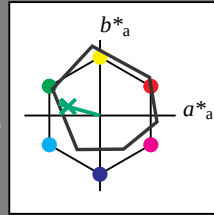
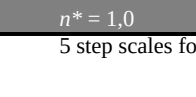
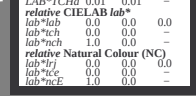
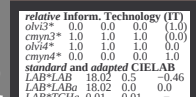
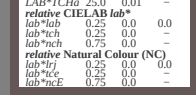
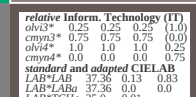
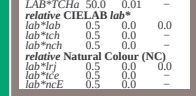
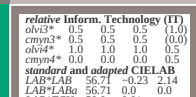
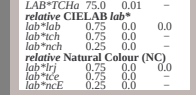
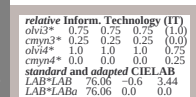
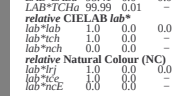
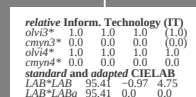
D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00



UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

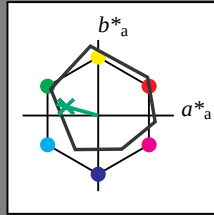
LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

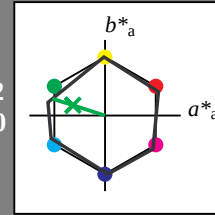
LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

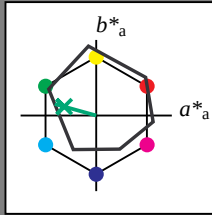
LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

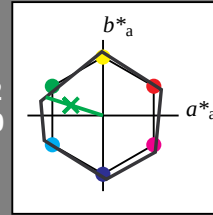
LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCHa	75.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	-		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	-		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
CMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)				
olvi3*	0.77	1.0	0.75	(1.0)
cmyn3*	0.23	0.0	0.25	(0.0)
olvi4*	0.77	1.0	0.75	1.0
cmyn4*	0.23	0.0	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	84.85	-18.91	6.06	
LAB*LABa	84.85	-18.92	6.06	
LAB*TCHa	87.5	19.88	162.25	

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

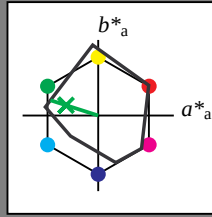
D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

triangle lightness

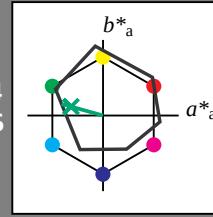
D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

triangle lightness

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

triangle lightness

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

triangle lightness

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

triangle lightness

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

triangle lightness

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

relative Inform. Technology (IT)

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

triangle lightness

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

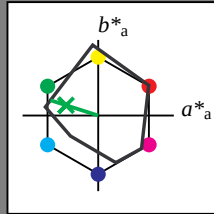
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

1,00

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

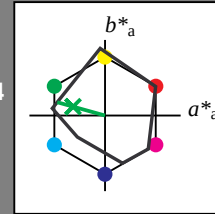
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

TRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

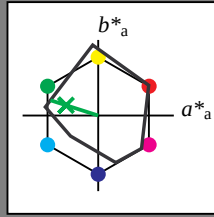
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

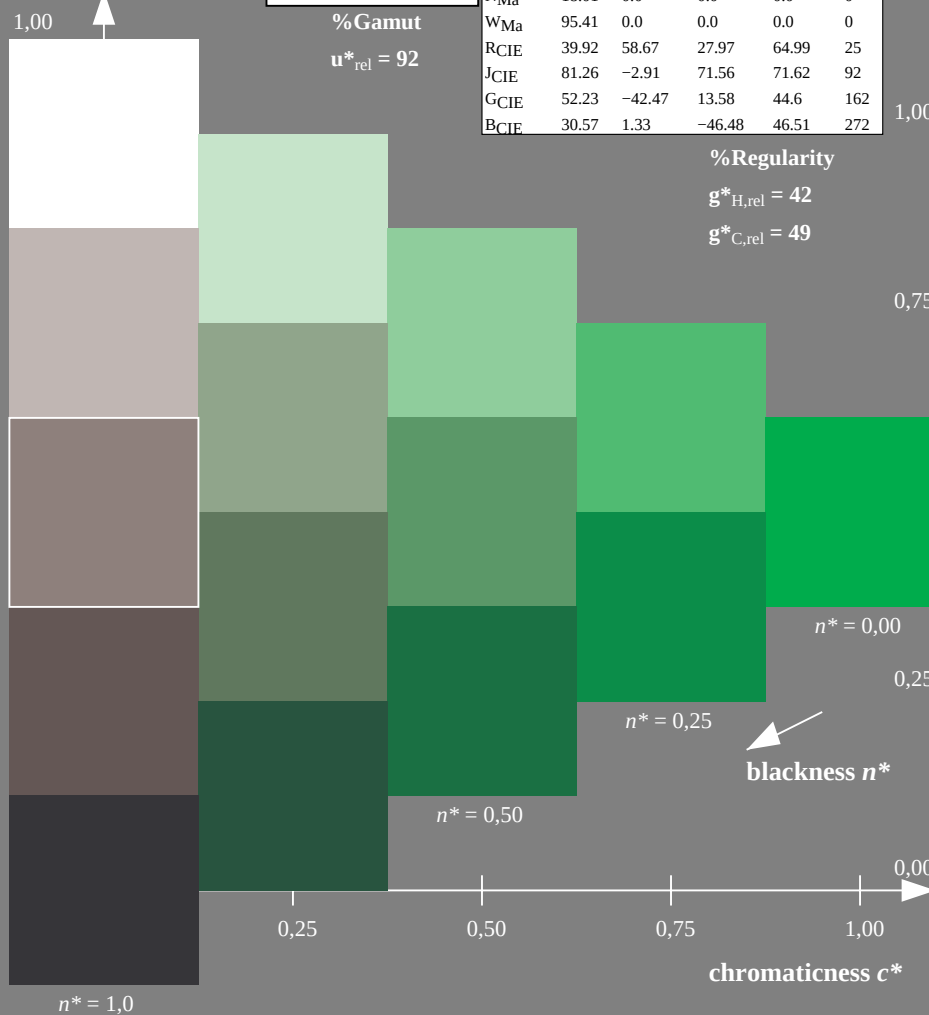


MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$



UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

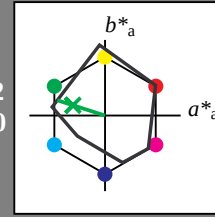
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

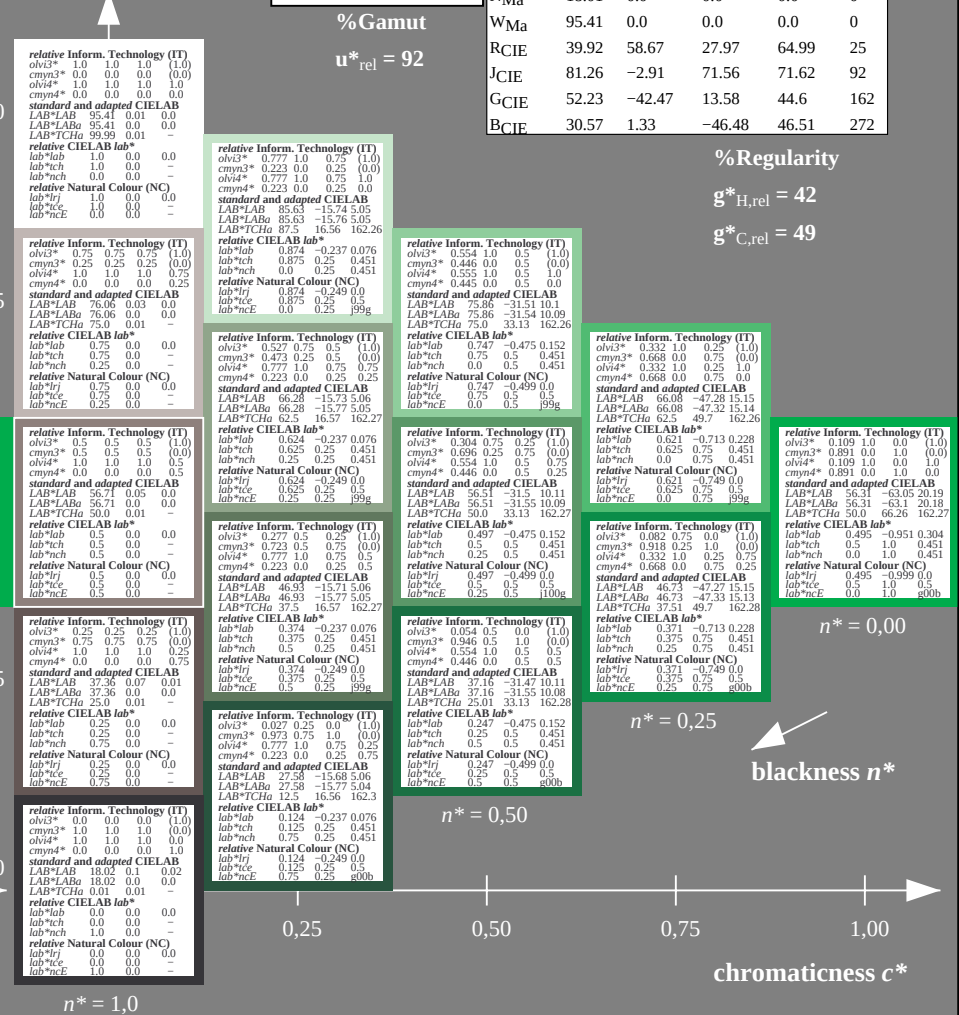


MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$



5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

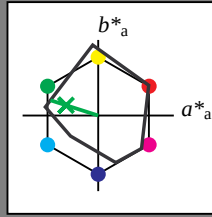
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

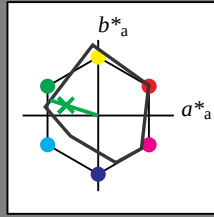
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

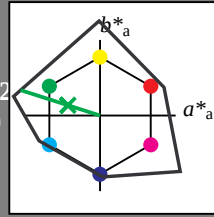
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

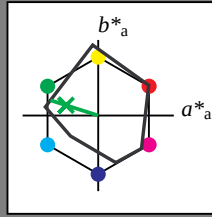
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

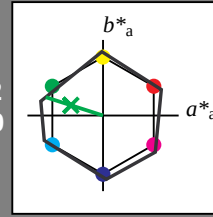
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,50$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,00$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

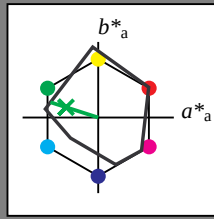
D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
cmyn4*	0.229	0.0	0.25	0.0	
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.31	0.0	0.0		
LAB*LABa	74.31	0.0	0.0		
LAB*TCBa	75.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*ch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
cmyn4*	0.229	0.0	0.25	0.25	
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	53.21	0.0	0.0		
LAB*LABa	53.21	0.0	0.0		
LAB*TCBa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
cmyn4*	0.229	0.0	0.25	0.5	
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*LABa	32.11	0.05	0.01		
LAB*TCBa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*ch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
cmyn4*	0.229	0.0	0.25	0.75	
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*nce	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*LABa	11.01	0.07	0.01		
LAB*TCBa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*ch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
cmyn4*	0.0	0.0	0.0	0.0	
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

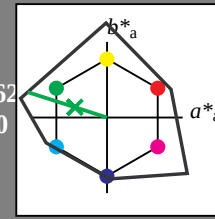
D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

relative Inform. Technology (IT)					
olvi3*	0.771	1.0	0.75	(1.0)	
cmyn3*	0.229	0.0	0.25	(0.0)	
olvi4*	0.771	1.0	0.75	(1.0)	
cmyn4*	0.229	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	87.9	-26.2	8.39		
LAB*LABa	87.9	-26.2	8.39		
LAB*TCBa	87.5	27.54	162.25		
relative CIELAB lab*					
lab*lab	0.911	-0.237	0.076		
lab*ch	0.875	0.5	0.451		
lab*nch	0.0	0.25	0.451		
cmyn4*	0.229	0.0	0.25	0.0	
relative Natural Colour (NC)					
lab*trj	0.911	-0.249	0.0		
lab*nce	0.875	0.5	0.5		

relative Inform. Technology (IT)					
olvi3*	0.521	0.75	0.5	(1.0)	
cmyn3*	0.479	0.25	0.5	(0.0)	
olvi4*	0.771	1.0	0.75	(1.0)	
cmyn4*	0.229	0.0	0.25	0.25	
standard and adapted CIELAB					
LAB*LAB	66.81	-26.19	8.4		
LAB*LABa	66.81	-26.23	8.4		
LAB*TCBa	62.5	27.55	162.25		
relative CIELAB lab*					
lab*lab	0.661	-0.237	0.076		
lab*ch	0.625	0.25	0.451		
lab*nch	0.25	0.25	0.451		
cmyn4*	0.229	0.0	0.25	0.5	
relative Natural Colour (NC)					
lab*trj	0.661	-0.249	0.0		
lab*nce	0.625	0.25	0.5		

relative Inform. Technology (IT)					
olvi3*	0.271	0.5	0.25	(1.0)	
cmyn3*	0.729	0.5	0.25	(0.0)	
olvi4*	0.771	1.0	0.75	(1.0)	
cmyn4*	0.229	0.0	0.25	0.5	
standard and adapted CIELAB					
LAB*LAB	59.31	-52.42	16.8		
LAB*LABa	59.31	-52.46	16.79		
LAB*TCBa	50.0	55.09	162.25		
relative CIELAB lab*					
lab*lab	0.572	-0.475	0.152		
lab*ch	0.5	0.5	0.451		
lab*nch	0.25	0.5	0.451		
cmyn4*	0.459	0.0	0.5	0.25	
relative Natural Colour (NC)					
lab*trj	0.572	-0.499	0.0		
lab*nce	0.5	0.5	0.5		

relative Inform. Technology (IT)					
olvi3*	0.021	0.25	0.0	(1.0)	
cmyn3*	0.979	0.75	1.0	(0.0)	
olvi4*	0.771	1.0	0.75	(1.0)	
cmyn4*	0.229	0.0	0.25	0.75	
standard and adapted CIELAB					
LAB*LAB	24.6	-26.16	8.4		
LAB*LABa	24.6	-26.23	8.4		
LAB*TCBa	12.5	27.54	162.28		
relative CIELAB lab*					
lab*lab	0.161	-0.237	0.076		
lab*ch	0.125	0.25	0.451		
lab*nch	0.75	0.25	0.451		
cmyn4*	0.229	0.0	0.25	0.75	
relative Natural Colour (NC)					
lab*trj	0.161	-0.249	0.0		
lab*nce	0.125	0.25	0.5		

relative Inform. Technology (IT)					
olvi3*	0.541	1.0	0.5	(1.0)	
cmyn3*	0.459	0.0	0.5	(0.0)	
olvi4*	0.541	1.0	0.5	1.0	
cmyn4*	0.459	0.0	0.5	0.0	
standard and adapted CIELAB					
LAB*LAB	80.4	-52.43	16.79		
LAB*LABa	80.4	-52.45	16.79		

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

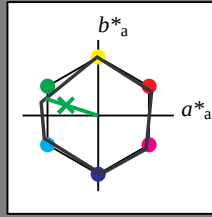
LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

%Gamut



%Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

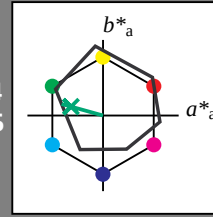
LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

%Gamut



%Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCRa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	0.25	1.0	0.623	(1.0)	
cmyn3*	0.5	0.0	0.377	(0.0)	
olvi4*	0.25	1.0	0.623	(1.0)	
cmyn4*	0.5	0.0	0.377	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.1	-27.96	10.94		
LAB*LABa	74.1	-27.99	7.62		
LAB*TCRa	75.0	28.44	164.46		

relative CIELAB lab*					
lab*lab	0.725	-0.481	0.134		
lab*tch	0.75	0.5	0.457		
lab*nch	0.0	0.5	0.457		
relative Natural Colour (NC)					
lab*trj	0.725	-0.489	0.0		
lab*tce	0.5	0.5	0.5		
lab*nce	0.0	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.373	(1.0)	
cmyn3*	0.5	0.25	0.627	(0.0)	
olvi4*	0.5	1.0	0.623	(1.0)	
cmyn4*	0.5	0.0	0.377	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.75	-27.6	9.64		
LAB*LABa	54.75	-27.39	7.62		
LAB*TCRa	50.0	28.44	164.46		

relative CIELAB lab*					
lab*lab	0.475	-0.481	0.134		
lab*tch	0.5	0.5	0.457		
lab*nch	0.0	0.5	0.457		
relative Natural Colour (NC)					
lab*trj	0.475	-0.489	0.0		
lab*tce	0.5	0.5	0.5		
lab*nce	0.0	0.5	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.5	0.123	(1.0)	
cmyn3*	1.0	0.25	0.815	(0.0)	
olvi4*	0.0	1.0	0.435	(1.0)	
cmyn4*	0.75	0.0	0.565	(0.0)	
standard and adapted CIELAB					
LAB*LAB	44.11	-41.09	12.73		
LAB*LABa	44.11	-41.09	12.73		
LAB*TCRa	37.51	42.66	164.45		

relative CIELAB lab*					
lab*lab	0.337	-0.721	0.201		
lab*tch	0.375	0.75	0.457		
lab*nch	0.0	0.75	0.457		
relative Natural Colour (NC)					
lab*trj	0.337	-0.740	0.0		
lab*tce	0.375	0.75	0.5		
lab*nce	0.0	0.75	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.25	0.062	(1.0)	
cmyn3*	0.75	0.338	0.0	(0.0)	
olvi4*	0.0	1.0	0.812	(1.0)	
cmyn4*	0.25	0.0	0.188	(0.0)	
standard and adapted CIELAB					
LAB*LAB	26.71	-13.35	3.94		
LAB*LABa	26.71	-13.69	3.82		
LAB*TCRa	12.5	14.22	164.44		

relative CIELAB lab*					
lab*lab	0.11				

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

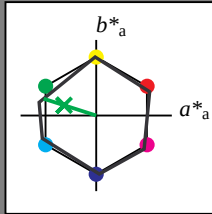
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

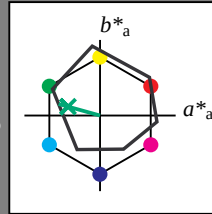
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

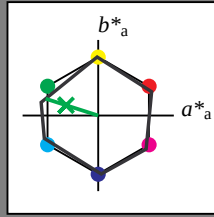
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

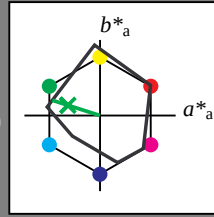
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

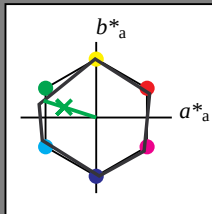
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

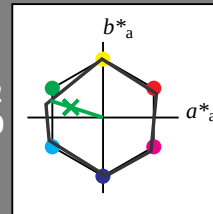
standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

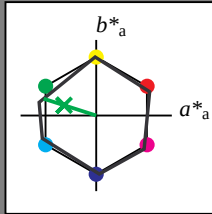
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

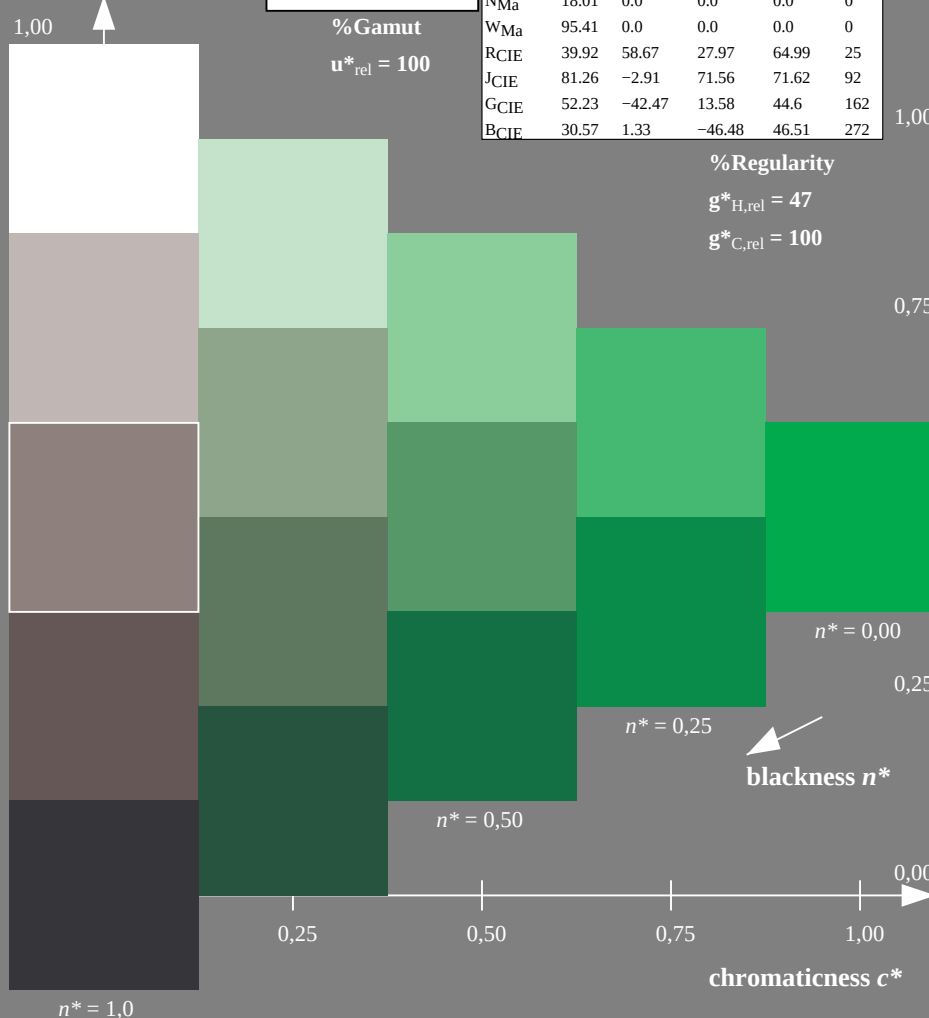


NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

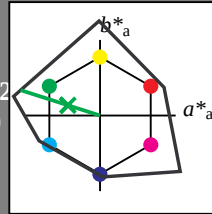
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

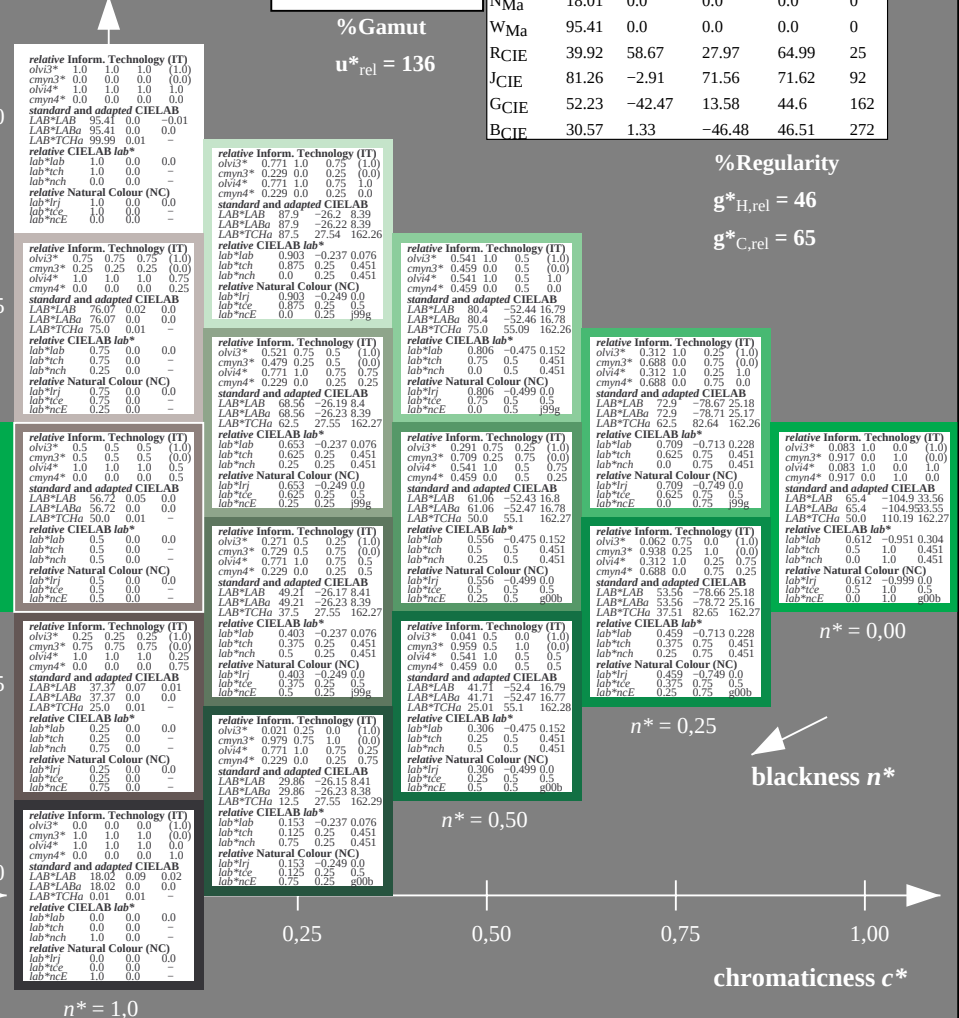


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

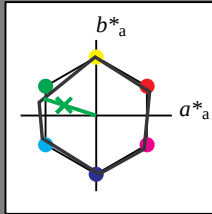
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

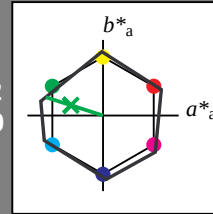
relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

lab*tch

lab*nch

lab*trj

lab*tce

lab*nce

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

lab*lab

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

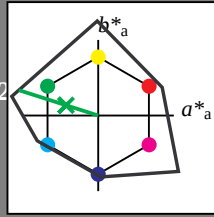
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

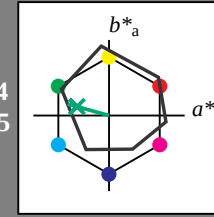
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.57	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCHa	75.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCHa	25.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	9.01	0.0	0.0		
LAB*LABa	9.01	0.0	0.0		
LAB*TCHa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*TCHa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*TCHa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*TCHa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*TCHa	0.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	0.0	0.0	0.0		
LAB*LABa	0.0	0.0	0.0		
LAB*TCHa	0.0	0.0	0.0		
relative C					

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

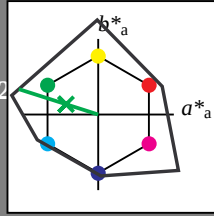
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

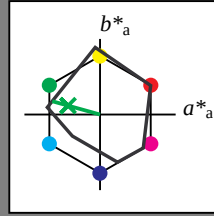
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

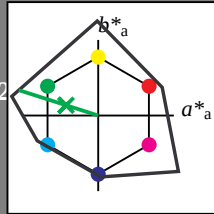
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

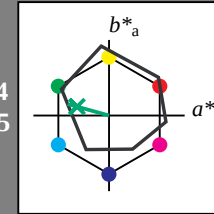
0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

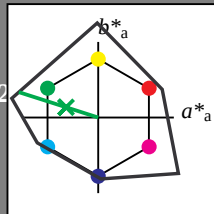
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

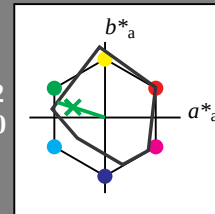
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

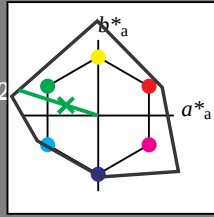
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

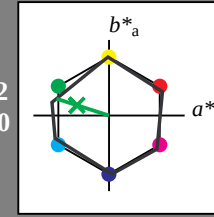
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.66	31.47	77.35	24
J _{Ma}	56.7	-1.39	77.37	77.39	91
G _{Ma}	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

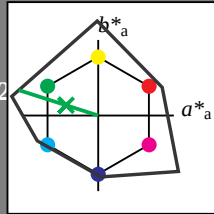
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

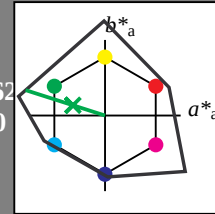
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

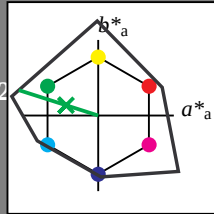
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

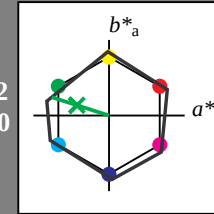
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

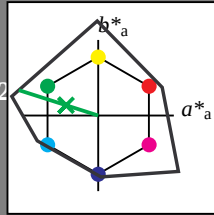
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Gamut

$u^*_{rel} = 136$

1,00

0,75

0,50

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

0,25

0,50

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

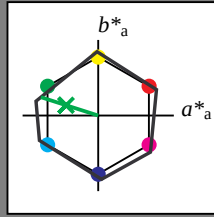
LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

%Gamut



%Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

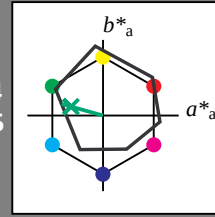
LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

%Gamut



%Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*LABa	76.06	0.0	0.0		
LAB*TCRa	75.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	-		
lab*nch	0.25	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.25	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LABa	37.36	0.0	0.0		
LAB*TCRa	25.0	0.01	-		

relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	-		
lab*nch	0.75	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.25	0.0	-		
lab*nce	0.75	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	-0.46		
LAB*LABa	18.02	0.0	0.0		
LAB*TCRa	0.01	0.01	-		

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	1.0	0.0	-		

$n^* = 1,0$

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	0.812	(1.0)	
cmyn3*	0.25	0.0	0.188	(0.0)	
olvi4*	0.75	1.0	0.812	(1.0)	
cmyn4*	0.25	0.0	0.188	(0.0)	
standard and adapted CIELAB					
LAB*LAB	84.75	-14.46	7.85		
LAB*LABa	84.75	-13.69	3.81		
LAB*TCRa	87.5	14.22	164.46		

relative CIELAB lab*					
lab*lab	0.862	-0.24	0.067		
lab*tch	0.875	0.25	0.457		
lab*nch	0.0	0.25	0.457		
relative Natural Colour (NC)					
lab*trj	0.862	-0.249	0.0		
lab*tce	0.25	0.25	0.5		
lab*nce	0.0	0.25	0.006		

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.562	(1.0)	
cmyn3*	0.5	0.25	0.438	(0.0)	
olvi4*	0.75	1.0	0.812	(1.0)	
cmyn4*	0.25	0.0	0.188	(0.0)	
standard and adapted CIELAB					
LAB*LAB	65.41	-14.1	6.55		
LAB*LABa	65.41	-13.69	3.81		
LAB*TCRa	62.5	14.22	164.46		

relative CIELAB lab*					
lab*lab	0.612	-0.24	0.067		
lab*tch	0.625	0.25	0.457		
lab*nch	0.25	0.25	0.457		
relative Natural Colour (NC)					
lab*trj	0.612	-0.249	0.0		
lab*tce	0.625	0.25	0.5		
lab*nce	0.25	0.25	0.998		

relative Inform. Technology (IT)					
olvi3*	0.25	0.5	0.312	(1.0)	
cmyn3*	0.75	0.5	0.688	(0.0)	
olvi4*	1.0	0.812	0.5	(1.0)	
cmyn4*	0.25	0.0	0.188	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.75	-27.6	9.64		
LAB*LABa	54.75	-27.39	7.62		
LAB*TCRa	50.0	28.44	164.46		

relative CIELAB lab*					
lab*lab	0.475	-0.481	0.134		
lab*tch	0.5	0.5	0.457		
lab*nch	0.25	0.5	0.457		
relative Natural Colour (NC)					
lab*trj	0.475	-0.489	0.0		
lab*tce	0.5	0.5	0.5		
lab*nce	0.25	0.5	0.998		

relative Inform. Technology (IT)					
olvi3*	0.0	0.5	0.123	(1.0)	
cmyn3*	1.0	0.5	0.877	(0.0)	
olvi4*	0.5	1.0	0.623	(1.0)	
cmyn4*	0.5	0.0	0.377	(0.0)	
standard and adapted CIELAB					
LAB*LAB	35.41	-27.39	7.63		
LAB*LABa	35.41	-27.39	7.63		
LAB*TCRa	25.01	28.44	164.45		

relative CIELAB lab*					
lab*lab	0.225	-0.481	0.134		

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

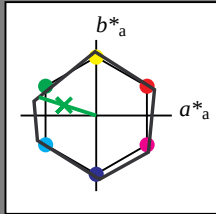
$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

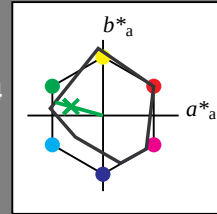
$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

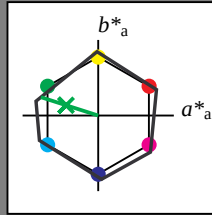
LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

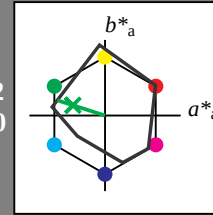
LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 0,50$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

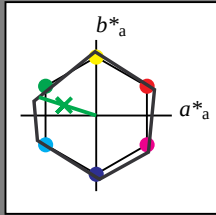
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

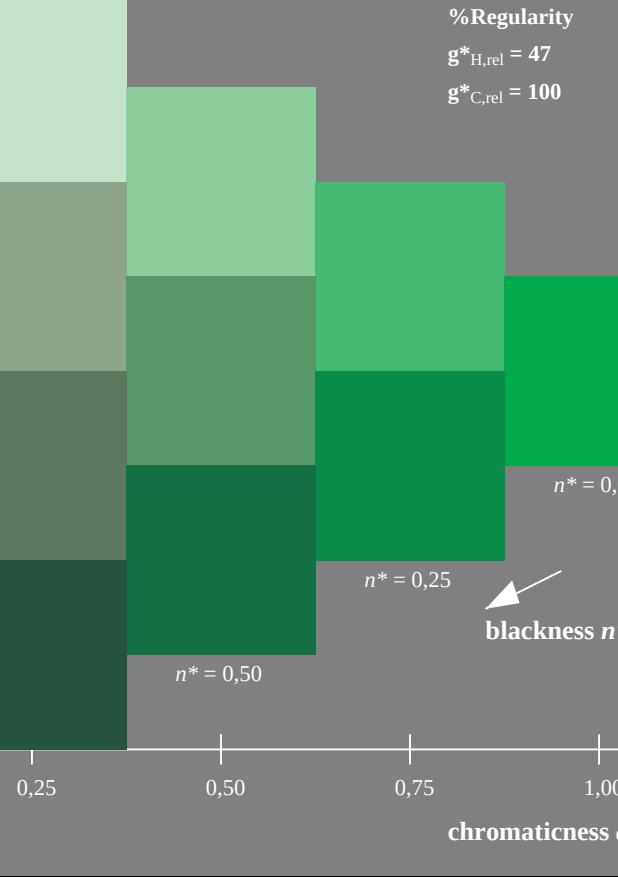
$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 73 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

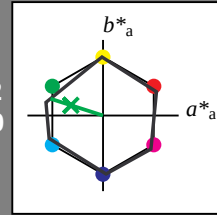
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

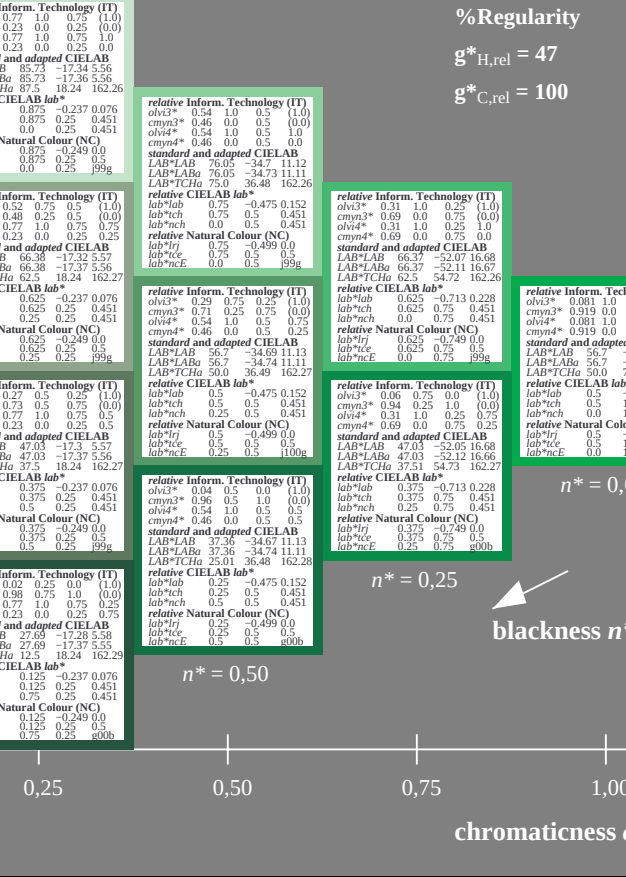
$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

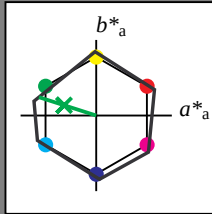
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

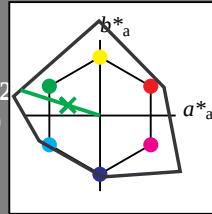
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.63	37.24	92.46	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

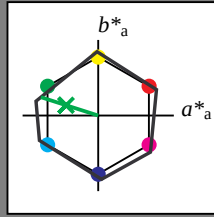
LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

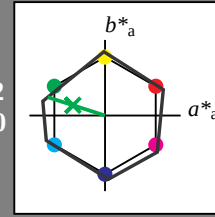
LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

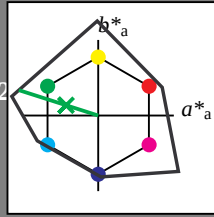
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

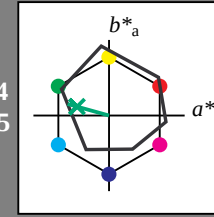
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

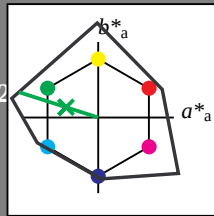
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

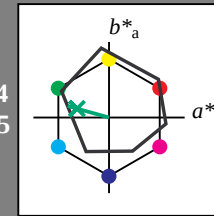
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

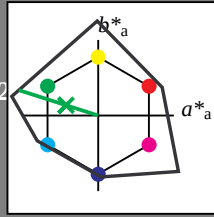
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

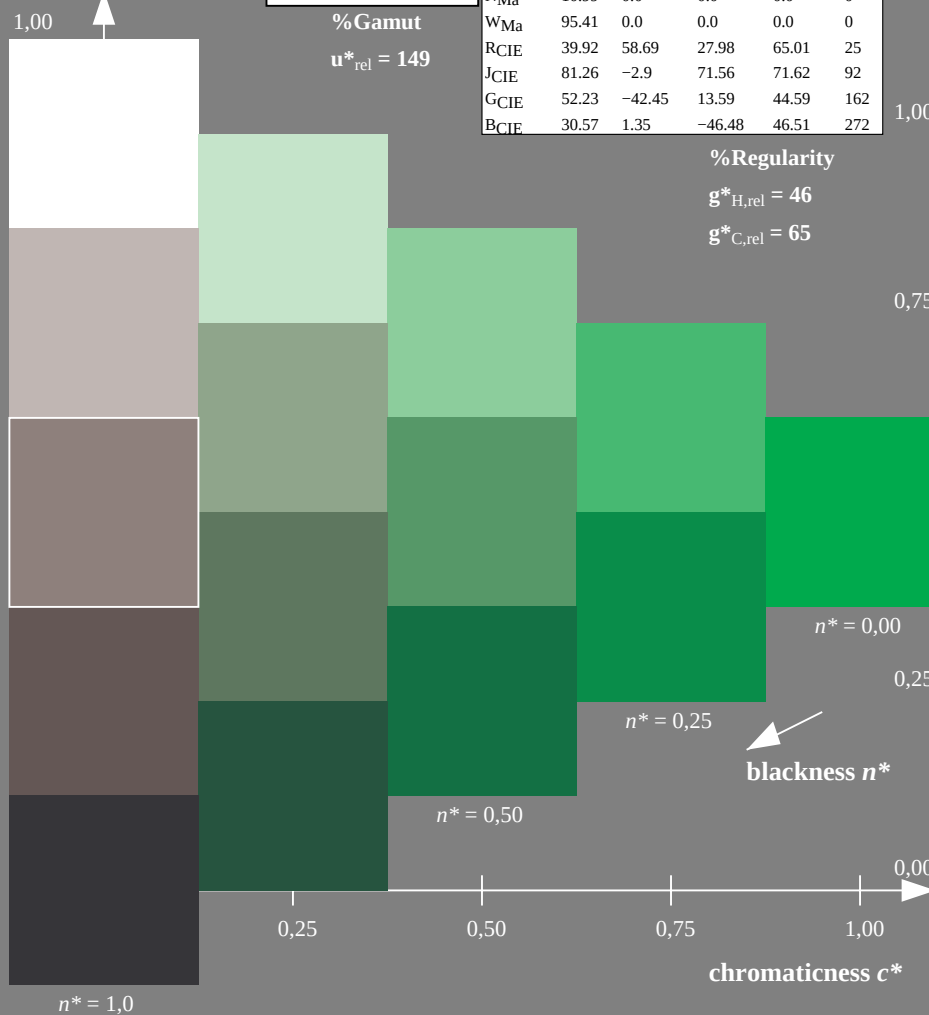


	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 162/360 = 0.451$

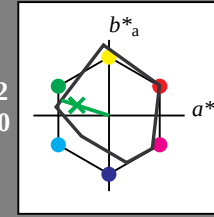
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness

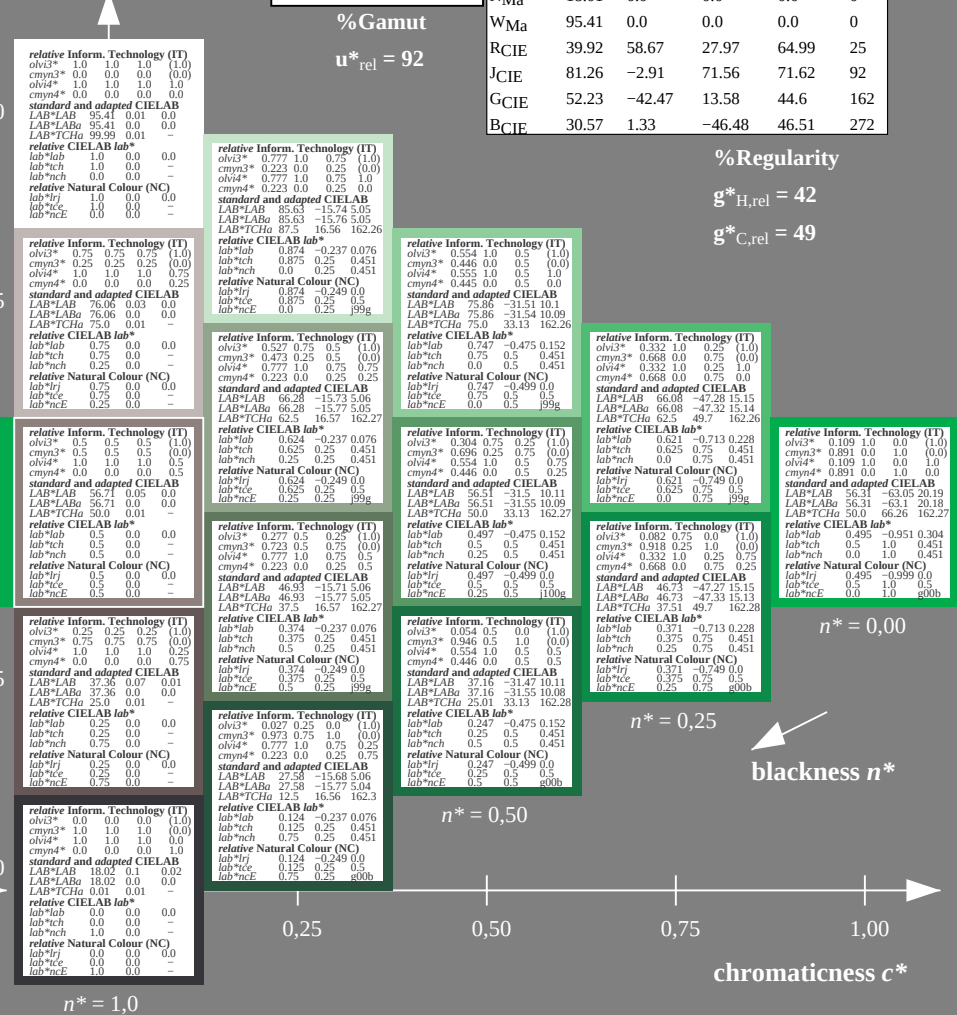


	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$



5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

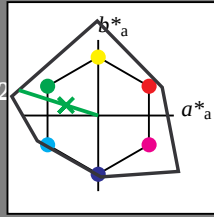
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 162/360 = 0.451$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

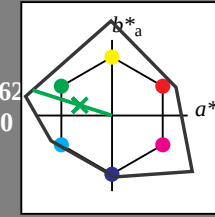
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

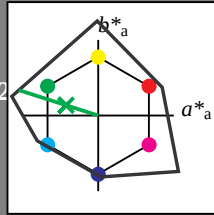
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 162/360 = 0.451$

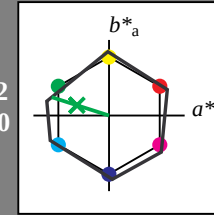
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

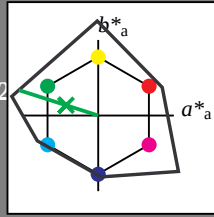
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Gamut
 $u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

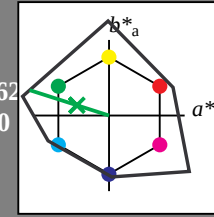
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Gamut
 $u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

relative Inform. Technology (IT)
olvi3* 0.771 1.0 0.75 (1.0)
cmyn3* 0.229 0.0 0.25 (0.0)
olvi4* 0.771 1.0 0.75 (1.0)
cmyn4* 0.229 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCBa 99.99 0.01 -
relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 0.75 0.75 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.0 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCBa 75.01 -
relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 -
lab*nch 0.25 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.521 0.75 0.5 (1.0)
cmyn3* 0.479 0.25 0.5 (0.0)
olvi4* 0.521 0.75 0.5 (1.0)
cmyn4* 0.479 0.25 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 66.81 -26.19 8.4
LAB*LABa 66.81 -26.23 8.4
LAB*TCBa 62.5 27.55 162.25
relative CIELAB lab*
lab*lab 0.661 -0.237 0.076
lab*tch 0.625 0.25 0.451
lab*nch 0.25 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.661 -0.249 0.0
lab*tce 0.625 0.25 0.5
lab*nce 0.25 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.0 0.0
LAB*LABa 53.21 0.0 0.0
LAB*TCBa 50.0 0.01 -
relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.5 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 0.25 0.25 0.25 (1.0)
cmyn4* 0.75 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.05 0.01
LAB*LABa 32.11 0.0 0.0
LAB*TCBa 25.0 0.01 -
relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 -
lab*nch 0.25 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LABa 11.01 0.0 0.0
LAB*TCBa 0.01 0.01 -
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.271 0.5 0.25 (1.0)
cmyn3* 0.729 0.5 0.25 (0.0)
olvi4* 0.271 0.5 0.25 (1.0)
cmyn4* 0.729 0.5 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 59.31 -52.42 16.8
LAB*LABa 59.31 -52.46 16.79
LAB*TCBa 50.0 55.09 162.25
relative CIELAB lab*
lab*lab 0.572 -0.475 0.152
lab*tch 0.5 0.5 0.451
lab*nch 0.25 0.5 0.451
relative Natural Colour (NC)
lab*trj 0.572 -0.499 0.0
lab*tce 0.5 0.5 0.5
lab*nce 0.25 0.5 0.451

relative Inform. Technology (IT)
olvi3* 0.021 0.25 0.0 (1.0)
cmyn3* 0.979 0.75 1.0 (0.0)
olvi4* 0.021 0.25 0.0 (1.0)
cmyn4* 0.979 0.75 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 24.6 -26.16 8.4
LAB*LABa 24.6 -26.23 8.4
LAB*TCBa 12.5 27.54 162.28
relative CIELAB lab*
lab*lab 0.161 -0.237 0.076
lab*tch 0.125 0.25 0.451
lab*nch 0.75 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.161 -0.249 0.0
lab*tce 0.125 0.25 0.5
lab*nce 0.75 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LABa 11.01 0.0 0.0
LAB*TCBa 0.01 0.01 -
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.041 0.5 0.0 (1.0)
cmyn3* 0.959 0.5 1.0 (0.0)
olvi4* 0.041 0.5 0.0 (1.0)
cmyn4* 0.959 0.5 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 38.2 -52.46 16.79
LAB*LABa 38.2 -52.46 16.78
LAB*TCBa 25.01 55.09 162.27
relative CIELAB lab*
lab*lab 0.322 -0.475 0.152
lab*tch 0.25 0.5 0.451
lab*nch 0.5 0.5 0.451
relative Natural Colour (NC)
lab*trj 0.322 -0.499 0.0
lab*tce 0.25 0.5 0.5
lab*nce 0.5 0.5 0.451

relative Inform. Technology (IT)
olvi3* 0.062 0.75 0.0 (1.0)
cmyn3* 0.938 0.25 1.0 (0.0)
olvi4* 0.062 0.75 0.0 (1.0)
cmyn4* 0.938 0.25 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.81 -78.65 25.19
LAB*LABa 51.81 -78.7 25.18
LAB*TCBa 37.51 82.64 162.26
relative CIELAB lab*
lab*lab 0.483 -0.713 0.228
lab*tch 0.375 0.75 0.451
lab*nch 0.25 0.75 0.451
relative Natural Colour (NC)
lab*trj 0.483 -0.740 0.0
lab*tce 0.375 0.75 0.5
lab*nce 0.25 0.75 0.451

relative Inform. Technology (IT)
olvi3* 0.062 0.75 0.0 (1.0)
cmyn3* 0.938 0.25 1.0 (0.0)
olvi4* 0.062 0.75 0.0 (1.0)
cmyn4* 0.938 0.25 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.81 -78.65 25.19
LAB*LABa 51.81 -78.7 25.18
LAB*TCBa 37.51 82.64 162.26
relative CIELAB lab*
lab*lab 0.483 -0.713 0.228
lab*tch 0.375 0.75 0.451
lab*nch 0.25 0.75 0.451
relative Natural Colour (NC)
lab*trj 0.483 -0.740 0.0
lab*tce 0.375 0.75 0.5
lab*nce 0.25 0.75 0.451

relative Inform. Technology (IT)
olvi3* 0.062 0.75 0.0 (1.0)
cmyn3* 0.938 0.25 1.0 (0.0)
olvi4* 0.062 0.75 0.0 (1.0)
cmyn4* 0.938 0.25 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.81 -78.65 25.19
LAB*LABa 51.81 -78.7 25.18
LAB*TCBa 37.51 82.64 162.26
relative CIELAB lab*
lab*lab 0.483 -0.713 0.228
lab*tch 0.375 0.75 0.451
lab*nch 0.25 0.75 0.451
relative Natural Colour (NC)
lab*trj 0.483 -0.740 0.0
lab*tce 0.375 0.75 0.5
lab*nce 0.25 0.75 0.451

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

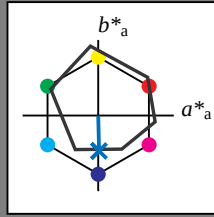
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

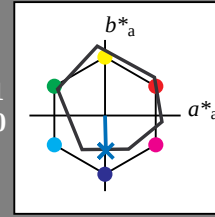
relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB



ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

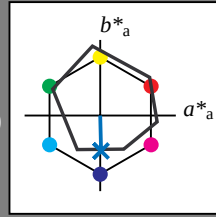
↑

↑

↑

↑

↑



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

0,00

chromaticness c^*

blackness n^*

$n^* = 0,50$

0,25

0,50

0,75

1,00

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

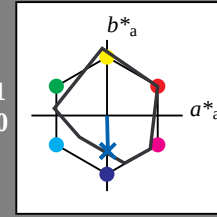
↑

↑

↑

↑

↑



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
CMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

0,00

chromaticness c^*

blackness n^*

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

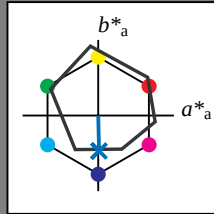
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

0,00

blackness n^*

$n^* = 0,50$

$n^* = 0,25$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

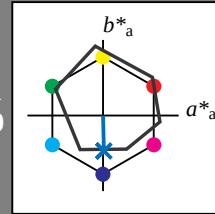
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

0,25

0,00

blackness n^*

$n^* = 0,50$

$n^* = 0,25$

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

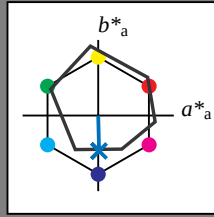
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

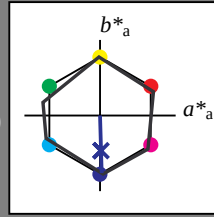
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
CMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 0,50$

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

↑

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

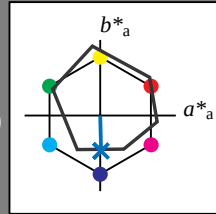
↑

0,25

0,50

0,75

1,00



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

↑

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

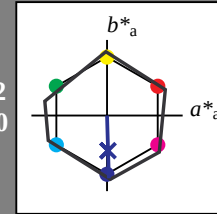
↑

0,25

0,50

0,75

1,00



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

↑

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

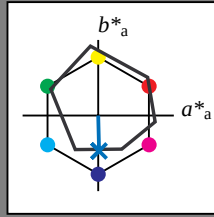
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

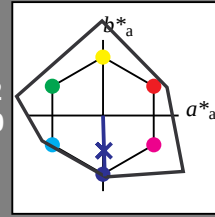
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
CMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

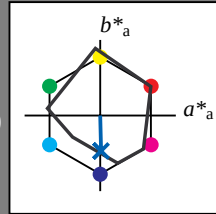
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,25

0,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

$n^* = 0,25$

blackness n^*

$n^* = 0,00$

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

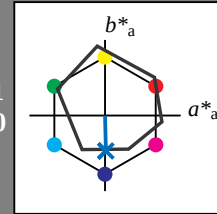
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

chromaticness c^*

$n^* = 0,50$

$n^* = 0,25$

blackness n^*

$n^* = 0,00$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

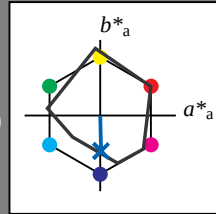
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,50$

0,00

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

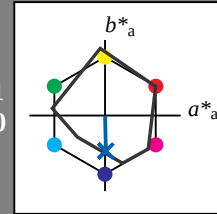
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,50$

0,00

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

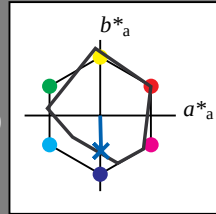
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

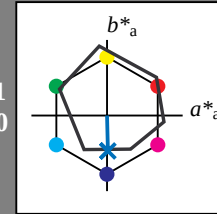
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

%Regularity

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

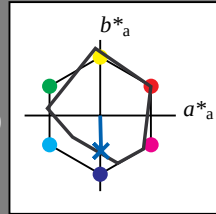
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



MRS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

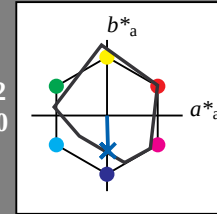
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



MRS18a; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.8	40.02	77.87	31
J _{Ma}	90.7	-7.27	93.19	93.48	94
G _{Ma}	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

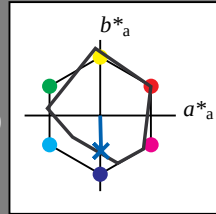
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

$n^* = 0,25$

$n^* = 0,00$

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

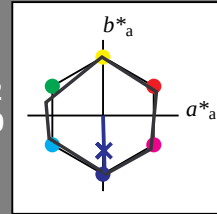
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

blackness n^*

chromaticness c^*

$n^* = 0,00$

0,25

0,50

$n^* = 0,25$

$n^* = 0,00$

$n^* = 1,0$

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

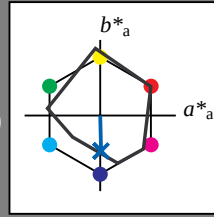
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

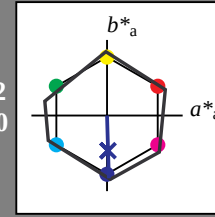
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

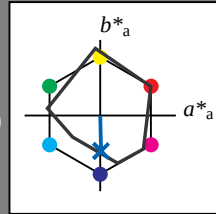
0,50

0,75

1,00

chromaticness c^*

blackness n^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

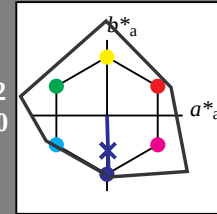
0,50

0,75

1,00

chromaticness c^*

blackness n^*



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

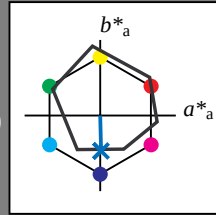
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Natural Colour (NC)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

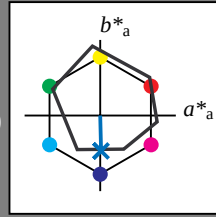
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

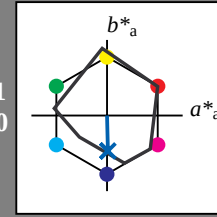
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0	0.0	0.0
lab*nch	0.0	0.0	1.0	0.0	0.0
lab*ttr	0.0	0.0	0.0	1.0	0.0
lab*tce	0.0	0.0	0.0	0.0	1.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.75	0.75	0.75	0.75	0.75
lab*tch	0.25	0.25	0.25	0.25	0.25
lab*nch	0.25	0.25	0.25	0.25	0.25
lab*ttr	0.25	0.25	0.25	0.25	0.25
lab*tce	0.25	0.25	0.25	0.25	0.25

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.5	0.5	0.5	0.5	0.5
lab*tch	0.5	0.5	0.5	0.5	0.5
lab*nch	0.5	0.5	0.5	0.5	0.5
lab*ttr	0.5	0.5	0.5	0.5	0.5
lab*tce	0.5	0.5	0.5	0.5	0.5

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.25	0.25	0.25	0.25	0.25
lab*tch	0.25	0.25	0.25	0.25	0.25
lab*nch	0.25	0.25	0.25	0.25	0.25
lab*ttr	0.25	0.25	0.25	0.25	0.25
lab*tce	0.25	0.25	0.25	0.25	0.25

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*ttr	0.0	0.0	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.75	0.842	1.0	1.0	1.0
lab*tch	0.25	0.158	0.0	0.0	0.0
lab*nch	0.25	0.842	1.0	1.0	1.0
lab*ttr	0.25	0.158	0.0	0.0	0.0
lab*tce	0.25	0.158	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.82	0.006	-0.249	0.0	0.0
lab*tch	0.875	0.25	0.754	0.0	0.0
lab*nch	0.82	0.0	0.25	0.754	0.0
lab*ttr	0.82	0.0	0.25	0.754	0.0
lab*tce	0.875	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.57	0.006	-0.249	0.0	0.0
lab*tch	0.625	0.25	0.754	0.0	0.0
lab*nch	0.57	0.0	0.25	0.754	0.0
lab*ttr	0.57	0.0	0.25	0.754	0.0
lab*tce	0.625	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.32	0.006	-0.249	0.0	0.0
lab*tch	0.375	0.25	0.754	0.0	0.0
lab*nch	0.32	0.0	0.25	0.754	0.0
lab*ttr	0.32	0.0	0.25	0.754	0.0
lab*tce	0.375	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.07	0.006	-0.249	0.0	0.0
lab*tch	0.125	0.25	0.754	0.0	0.0
lab*nch	0.07	0.0	0.25	0.754	0.0
lab*ttr	0.07	0.0	0.25	0.754	0.0
lab*tce	0.125	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.5	0.684	1.0	1.0	1.0
lab*tch	0.5	0.316	0.0	0.0	0.0
lab*nch	0.5	0.684	1.0	1.0	1.0
lab*ttr	0.5	0.316	0.0	0.0	0.0
lab*tce	0.5	0.316	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.64	0.012	-0.499	0.0	0.0
lab*tch	0.75	0.25	0.754	0.0	0.0
lab*nch	0.64	0.0	0.25	0.754	0.0
lab*ttr	0.64	0.0	0.25	0.754	0.0
lab*tce	0.75	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.39	0.012	-0.499	0.0	0.0
lab*tch	0.49	0.25	0.754	0.0	0.0
lab*nch	0.39	0.0	0.25	0.754	0.0
lab*ttr	0.39	0.0	0.25	0.754	0.0
lab*tce	0.49	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.14	0.012	-0.499	0.0	0.0
lab*tch	0.25	0.25	0.754	0.0	0.0
lab*nch	0.14	0.0	0.25	0.754	0.0
lab*ttr	0.14	0.0	0.25	0.754	0.0
lab*tce	0.25	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.0	0.184	0.5	1.0	1.0
lab*tch	0.0	0.184	0.5	1.0	1.0
lab*nch	0.0	0.184	0.5	1.0	1.0
lab*ttr	0.0	0.184	0.5	1.0	1.0
lab*tce	0.0	0.184	0.5	1.0	1.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.25	0.526	1.0	1.0	1.0
lab*tch	0.25	0.474	0.0	0.0	0.0
lab*nch	0.25	0.526	1.0	1.0	1.0
lab*ttr	0.25	0.474	0.0	0.0	0.0
lab*tce	0.25	0.474	0.0	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.46	0.018	-0.749	0.0	0.0
lab*tch	0.625	0.25	0.754	0.0	0.0
lab*nch	0.46	0.0	0.25	0.754	0.0
lab*ttr	0.46	0.0	0.25	0.754	0.0
lab*tce	0.625	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.281	0.025	-0.998	0.0	0.0
lab*tch	0.375	0.25	0.754	0.0	0.0
lab*nch	0.281	0.0	0.25	0.754	0.0
lab*ttr	0.281	0.0	0.25	0.754	0.0
lab*tce	0.375	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.211	0.018	-0.749	0.0	0.0
lab*tch	0.375	0.25	0.754	0.0	0.0
lab*nch	0.211	0.0	0.25	0.754	0.0
lab*ttr	0.211	0.0	0.25	0.754	0.0
lab*tce	0.375	0.25	0.754	0.0	0.0

relative Inform. Technology (IT)					
	$olvi3^*$	$olvi4^*$	$olvi5^*$	$olvi6^*$	$olvi7^*$
lab*lab	0.0	0.276	0.75	1.0	1.0
lab*tch	0.0	0.276	0.75	1.0	1.0
lab*nch	0.0	0.276	0.75	1.0	1.0
lab*ttr	0.0	0.276	0.75	1.0	1.0
lab*tce	0.0	0.276	0.75	1.0	1.0

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

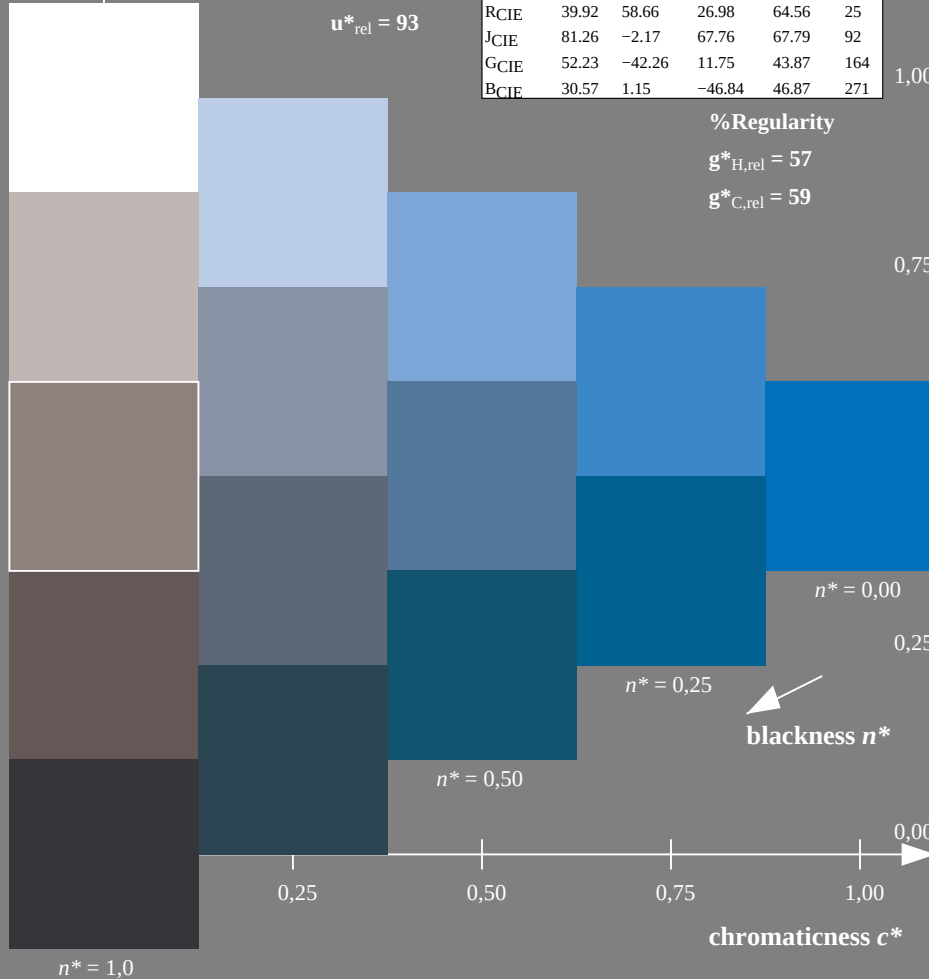
D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00



UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

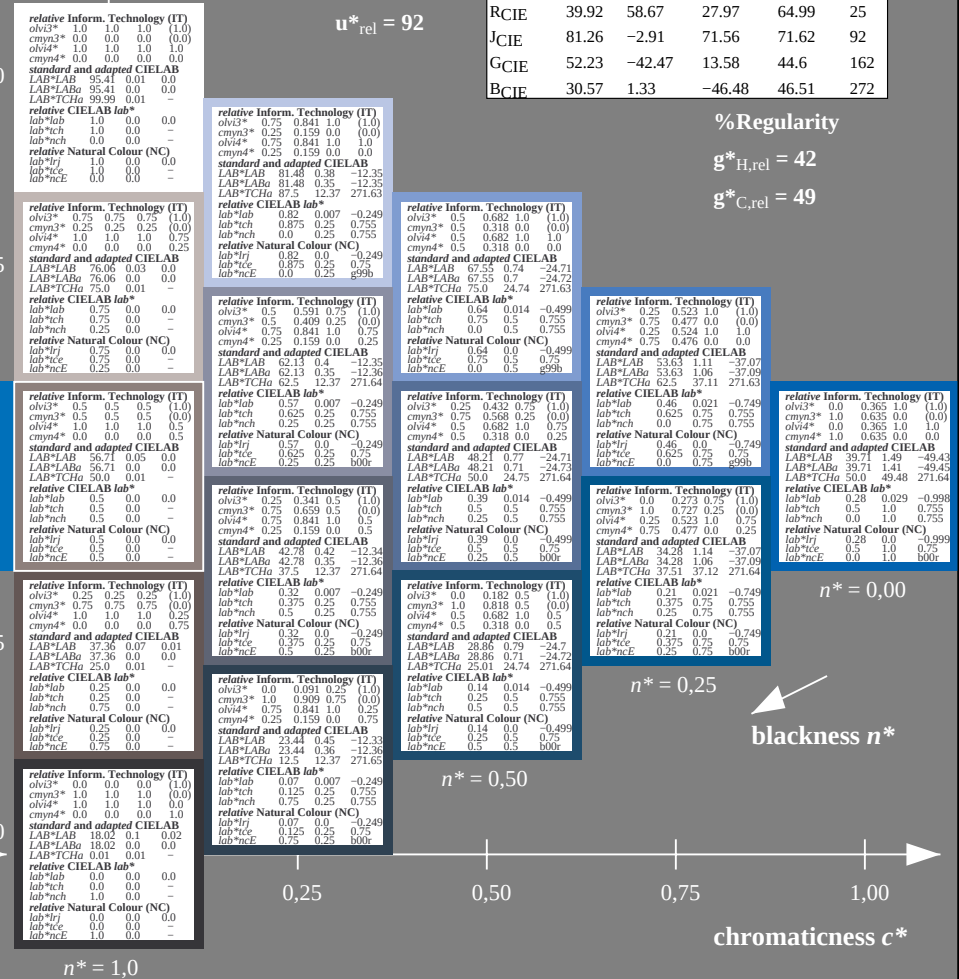
D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness

1,00



5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

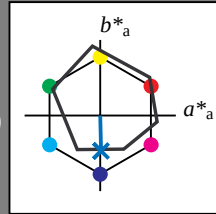
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

$n^* = 0,25$

$n^* = 0,00$

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

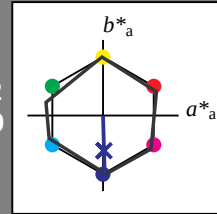
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50BMa	56.7	-71.29	-30.25	77.45	203
BMa	56.7	4.0	-77.3	77.41	273
B50RMa	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

$n^* = 0,25$

$n^* = 0,00$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

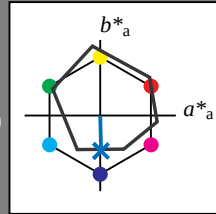
0,25

0,50

0,75

1,00

$n^* = 1,0$



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

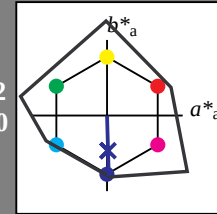
$n^* = 1,0$

0,25

0,50

0,75

1,00



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50BMa	59.47	-80.61	-33.45	87.29	203
BMa	49.01	3.63	-81.2	81.29	273
B50RMa	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

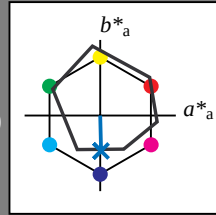
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

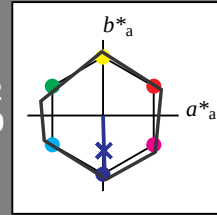
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

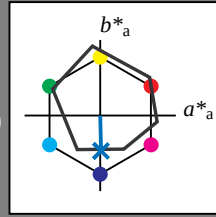
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 93$

TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,25

0,00

blackness n^*

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

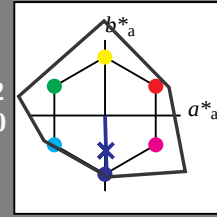
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.754	1.0	(1.0)	
cmyn3*	0.25	0.246	0.0	(0.0)	
olvi4*	0.75	0.754	1.0	(1.0)	
cmyn4*	0.25	0.246	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	83.85	0.6	-20.1		
LAB*LABa	83.85	0.58	-20.1		
LAB*TCBa	87.5	20.11	271.66		
relative CIELAB lab*					
lab*lab	0.863	0.007	-0.249		
lab*tch	0.875	0.0	0.755		
lab*nch	0.0	0.25	0.755		
relative Natural Colour (NC)					
lab*trj	0.863	0.0	-0.249		
lab*tce	0.875	0.25	0.755		
lab*nce	0.0	0.25	0.996		

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
CMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,25

blackness n^*

$n^* = 0,00$

chromaticness c^*

$n^* = 1,0$

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

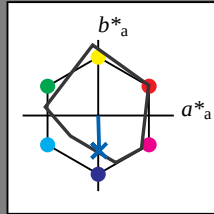
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

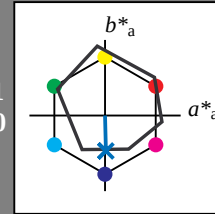
blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

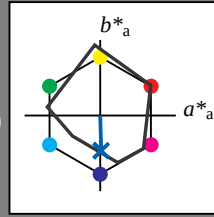
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

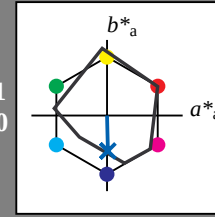
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	-0.37	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCRa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*ch	1.0	0.0	0.0		
lab*nch	0.0	1.0	0.0		
cmyn4*	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.842	1.0	(1.0)	(1.0)
cmyn3*	0.25	0.158	0.0	(0.0)	(0.0)
olvi4*	0.75	0.842	1.0	(1.0)	(1.0)
cmyn4*	0.25	0.158	0.0	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	81.49	-0.4	-8.75		
LAB*LABa	81.49	0.31	-12.57		
LAB*TCRa	87.5	12.59	271.39		
relative CIELAB lab*					
lab*lab	0.82	0.006	-0.249		
lab*ch	0.875	0.25	0.754		
lab*nch	0.0	0.25	0.754		
cmyn4*	0.25	0.158	0.0		
relative Natural Colour (NC)					
lab*trj	0.82	0.0	-0.249		
lab*nce	0.875	0.25	0.754		
lab*nce	0.0	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.5	0.592	0.75	(1.0)	(1.0)
cmyn3*	0.5	0.408	0.25	(0.0)	(0.0)
olvi4*	0.5	0.592	0.75	(1.0)	(1.0)
cmyn4*	0.5	0.408	0.25	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	62.14	-0.02	-10.06		
LAB*LABa	62.14	0.31	-12.58		
LAB*TCRa	62.5	12.59	271.4		
relative CIELAB lab*					
lab*lab	0.57	0.006	-0.249		
lab*ch	0.625	0.25	0.754		
lab*nch	0.25	0.25	0.754		
cmyn4*	0.25	0.158	0.0		
relative Natural Colour (NC)					
lab*trj	0.57	0.0	-0.249		
lab*nce	0.625	0.25	0.754		
lab*nce	0.25	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.25	0.342	0.5	(1.0)	(1.0)
cmyn3*	0.25	0.658	0.5	(0.0)	(0.0)
olvi4*	0.25	0.342	0.5	(1.0)	(1.0)
cmyn4*	0.25	0.658	0.5	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*LABa	56.71	0.0	0.0		
LAB*TCRa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*ch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
cmyn4*	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.342	0.5	(1.0)	(1.0)
cmyn3*	0.25	0.658	0.5	(0.0)	(0.0)
olvi4*	0.25	0.342	0.5	(1.0)	(1.0)
cmyn4*	0.25	0.658	0.5	(0.0)	(0.0)
standard and adapted CIELAB					
LAB*LAB	48.22	0.54	-23.59		
LAB*LABa	48.22	0.62	-25.17		
LAB*TCRa	50.0	25.18	271.4		
relative CIELAB lab*					
lab*lab	0.39	0.012	-0.499		
lab*ch	0.39	0.012	-0.499		
lab*nch	0.25	0.5	0.754		
cmyn4*	0.5	0.316	0.0		
relative Natural Colour (NC)					
lab*trj	0.39	0.0	-0.499		
lab*nce	0.39	0.0	-0.499		
lab*nce	0.25	0.5	0.996		

relative Inform. Technology (IT)					
olvi3*	0.0	0.092	0.25	(1.0)	(1.0)
cmyn3*	1.0	0.908	0.75	(0.0)	(0.0)
olvi4*	0.75	0.842	1.0	(0.25)	(0.25)
cmyn4*	0.25	0.158	0.0	(0.75)	(0.75)
standard and adapted CIELAB					
LAB*LAB	23.44	0.71	-12.67		
LAB*LABa	23.44	0.31	-12.58		
LAB*TCRa	12.5	12.59	271.42		
relative CIELAB lab*					
lab*lab	0.07	0.006	-0.249		
lab*ch	0.125	0.25	0.754		
lab*nch	0.75	0.25	0.754		
cmyn4*	0.25	0.158	0.0		
relative Natural Colour (NC)					
lab*trj	0.07	0.0	-0.249		
lab*nce	0.125	0.25	0.754		
lab*nce	0.75	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.0	0.092	0.25	(1.0)	(1.0)
cmyn3*	1.0	0.908	0.75	(0.0)	(0.0)
olvi4*	0.75	0.842	1.0	(0.25)	(0.25)
cmyn4*	0.25	0.158	0.0	(0.75)	(0.75)
standard and adapted CIELAB					
LAB*LAB	23.44	0.71	-12.67		
LAB*LABa	23.44	0.31	-12.58		
LAB*TCRa	12.5	12.59	271.42		
relative CIELAB lab*					
lab*lab	0.07	0.006	-0.249		
lab*ch	0.125	0.25	0.754		
lab*nch	0.75	0.25	0.754		
cmyn4*	0.25	0.158	0.0		
relative Natural Colour (NC)					
lab*trj	0.07	0.0	-0.249		
lab*nce	0.125	0.25	0.754		
lab*nce	0.75	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.0	0.092	0.25	(1.0)	(1.0)
cmyn3*	1.0	0.908	0.75	(0.0)	(0.0)
olvi4*	0.75	0.842	1.0	(0.25)	(0.25)
cmyn4*	0.25	0.158	0.0	(0.75)	(0.75)
standard and adapted CIELAB					
LAB*LAB	23.44	0.71	-12.67		
LAB*LABa	23.44	0.31	-12.58		
LAB*TCRa	12.5	12.59	271.42		
relative CIELAB lab*					
lab*lab	0.07	0.006	-0.249		
lab*ch	0.125	0.25	0.754		
lab*nch	0.75	0.25	0.754		
cmyn4*	0.25	0.158	0.0		
relative Natural Colour (NC)					
lab*trj	0.07	0.0	-0.249		
lab*nce	0.125	0.25	0.754		
lab*nce	0.75	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.0	0.092	0.25	(1.0)	(1.0)
cmyn3*	1.0	0.908	0.75	(0.0)	(0.0)
olvi4*	0.75	0.842	1.0	(0.25)	(0.25)
cmyn4*	0.25	0.158	0.0	(0.75)	(0.75)
standard and adapted CIELAB					
LAB*LAB	23.44	0.71	-12.67		
LAB*LABa	23.44	0.31	-12.58		
LAB*TCRa	12.5	12.59	271.42		
relative CIELAB lab*					
lab*lab	0.07	0.006	-0.249		
lab*ch	0.125	0.25	0.754		
lab*nch	0.75	0.25	0.754		
cmyn4*	0.25	0.158	0.0		
relative Natural Colour (NC)					
lab*trj	0.07	0.0	-0.249		
lab*nce	0.125	0.25	0.754		
lab*nce	0.75	0.25	0.996		

5 step scales for	
-------------------	--

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

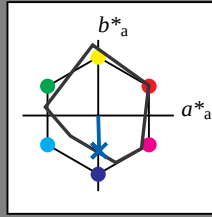
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

$n^* = 0,00$

MRS18a; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

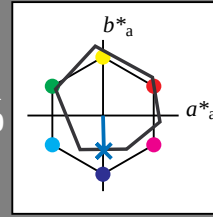
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness



% Gamut

$u^*_{rel} = 93$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

TRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

$n^* = 1,00$

<

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

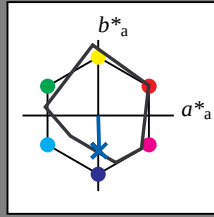
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

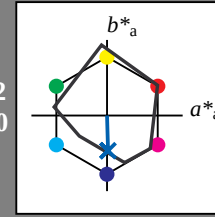
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

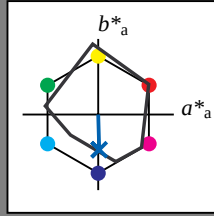
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

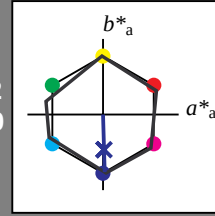
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

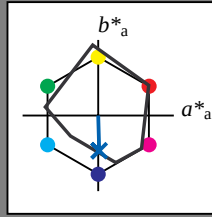
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

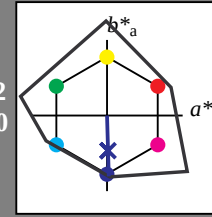
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS18; adapted (a) CIELAB data					
	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Gamut

$u^*_{rel} = 136$

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)					
olvi3*	0.75	0.754	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	-0.01		
LAB*LABa	95.41	0.0	0.0		
LAB*TCBa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	0.851	0.25	0.75		
lab*nce	0.0	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.5	0.504	0.75	(1.0)	
cmyn3*	0.5	0.496	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	64.5	0.02	-20.09		
LAB*LABa	64.5	0.57	-20.1		
LAB*TCBa	62.5	20.12	271.64		
relative CIELAB lab*					
lab*lab	0.601	0.007	-0.249		
lab*tch	0.625	0.25	0.755		
lab*nch	0.25	0.25	0.755		
relative Natural Colour (NC)					
lab*trj	0.601	0.0	-0.249		
lab*tce	0.625	0.25	0.75		
lab*nce	0.25	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.25	0.258	0.5	(1.0)	
cmyn3*	0.25	0.742	0.25	(0.0)	
olvi4*	0.5	0.508	1.0	(1.0)	
cmyn4*	0.5	0.492	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.94	1.21	-40.2		
LAB*LABa	52.94	1.15	-40.21		
LAB*TCBa	50.0	40.24	271.64		
relative CIELAB lab*					
lab*lab	0.451	0.014	-0.499		
lab*tch	0.451	0.5	0.755		
lab*nch	0.25	0.5	0.755		
relative Natural Colour (NC)					
lab*trj	0.451	0.0	-0.499		
lab*tce	0.451	0.5	0.75		
lab*nce	0.25	0.5	0.996		

relative Inform. Technology (IT)					
olvi3*	0.0	0.004	0.25	(1.0)	
cmyn3*	1.0	0.996	0.75	(0.0)	
olvi4*	0.75	0.754	1.0	(0.0)	
cmyn4*	0.25	0.246	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	25.81	0.67	-20.07		
LAB*LABa	25.81	0.58	-20.1		
LAB*TCBa	12.5	20.12	271.64		
relative CIELAB lab*					
lab*lab	0.101	0.007	-0.249		
lab*tch	0.125	0.25	0.755		
lab*nch	0.75	0.25	0.755		
relative Natural Colour (NC)					
lab*trj	0.101	0.0	-0.249		
lab*tce	0.125	0.25	0.75		
lab*nce	0.75	0.25	0.996		

relative Inform. Technology (IT)					
olvi3*	0.0	0.012	0.75	(1.0)	
cmyn3*	1.0	0.988	0.25	(0.0)	
olvi4*	0.25	0.262	1.0	(1.0)	
cmyn4*	0.75	0.738	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	60.73	1.77	-60.31		
LAB*LABa	60.73	1.72	-60.32		
LAB*TCBa	62.5	60.35	271.64		
relative CIELAB lab*					
lab*lab	0.552	0.021	-0.749		
lab*tch	0.625	0.75	0.755		
lab*nch	0.0	0.75	0.755		
relative Natural Colour (NC)					
lab*trj	0.552	0.0	-0.749		
lab*tce	0.625	0.75	0.75		
lab*nce	0.0	0.75	0.996		

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

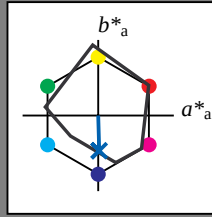
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

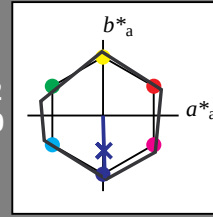
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

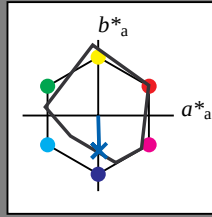
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

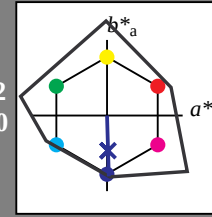
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

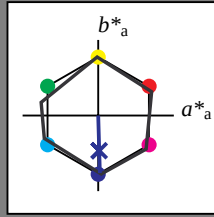
0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

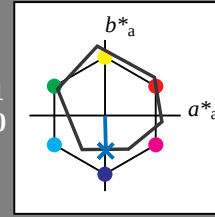
0,25

0,50

0,75

1,00

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

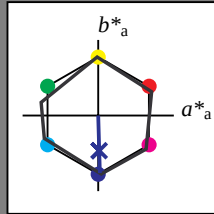
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

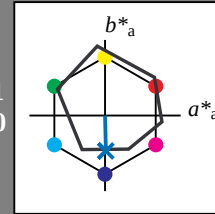
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

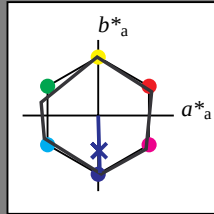
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

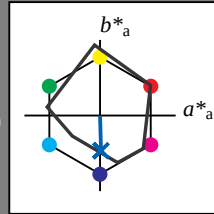
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 92$

MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

% Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

↑

↑

↑

↑

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 100$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

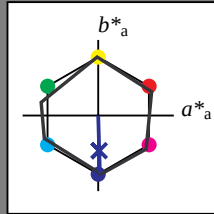
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

↑

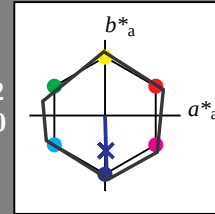
↑

↑

↑

↑

↑



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

0,75

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

triangle lightness

1,00

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

0

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

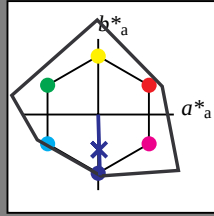
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

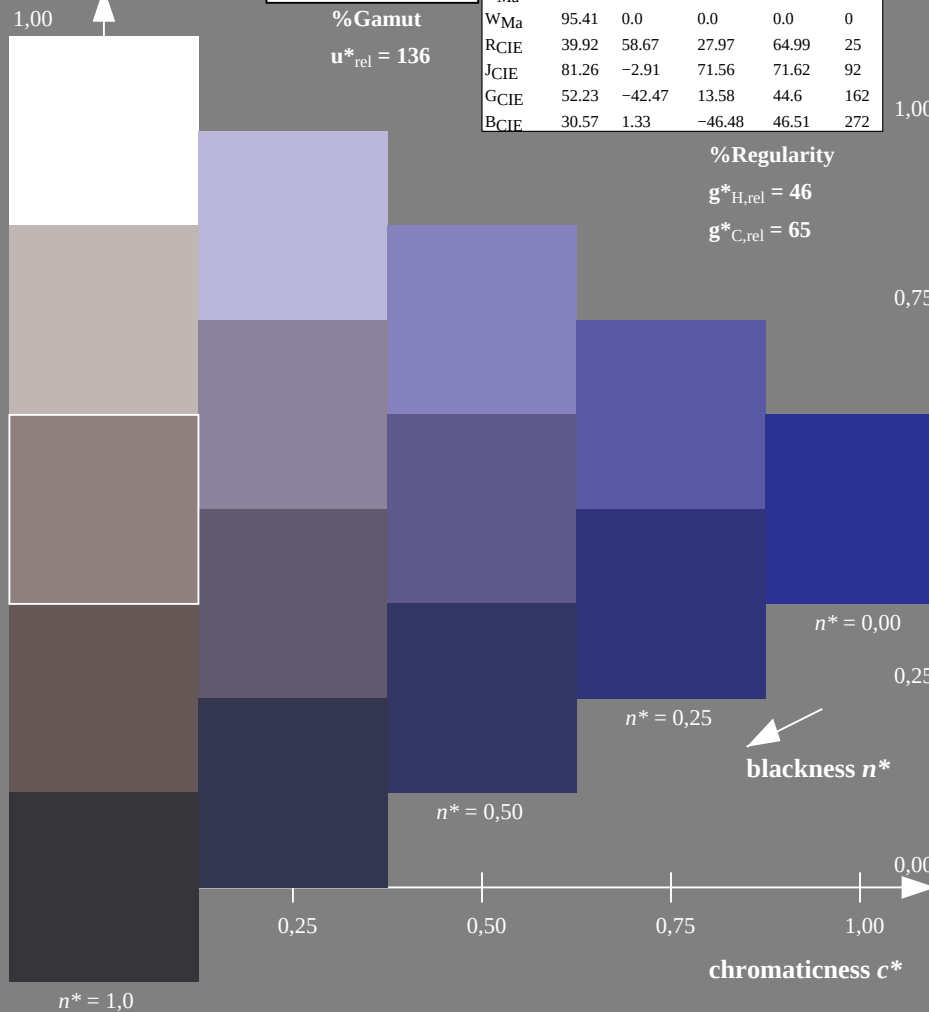
rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$



UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

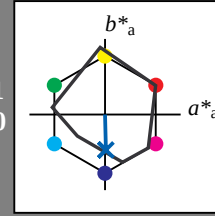
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

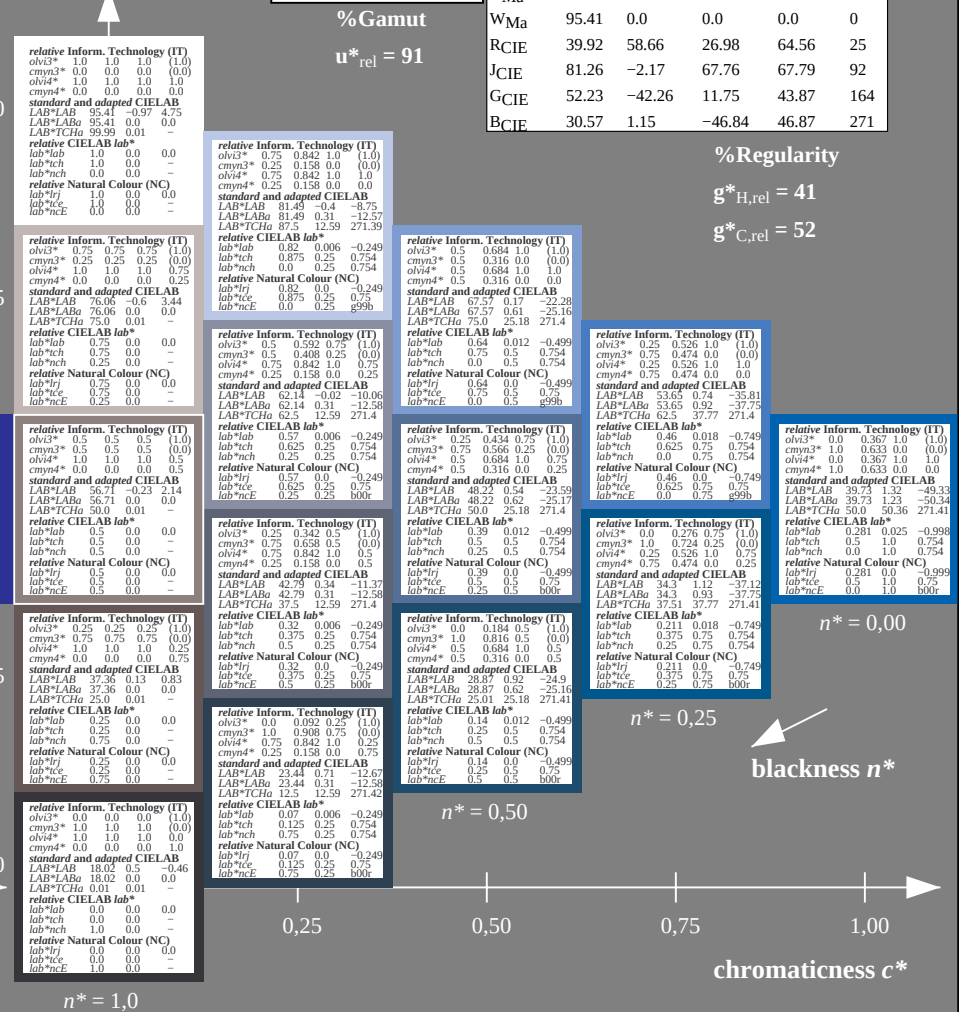
rgb*Ma: 0.0 0.37 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$



5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

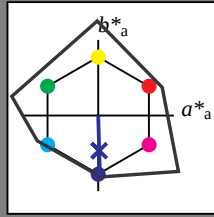
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,25

0,00

$n^* = 0,00$

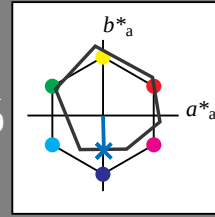
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



TRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 136$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

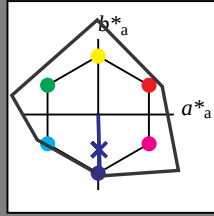
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

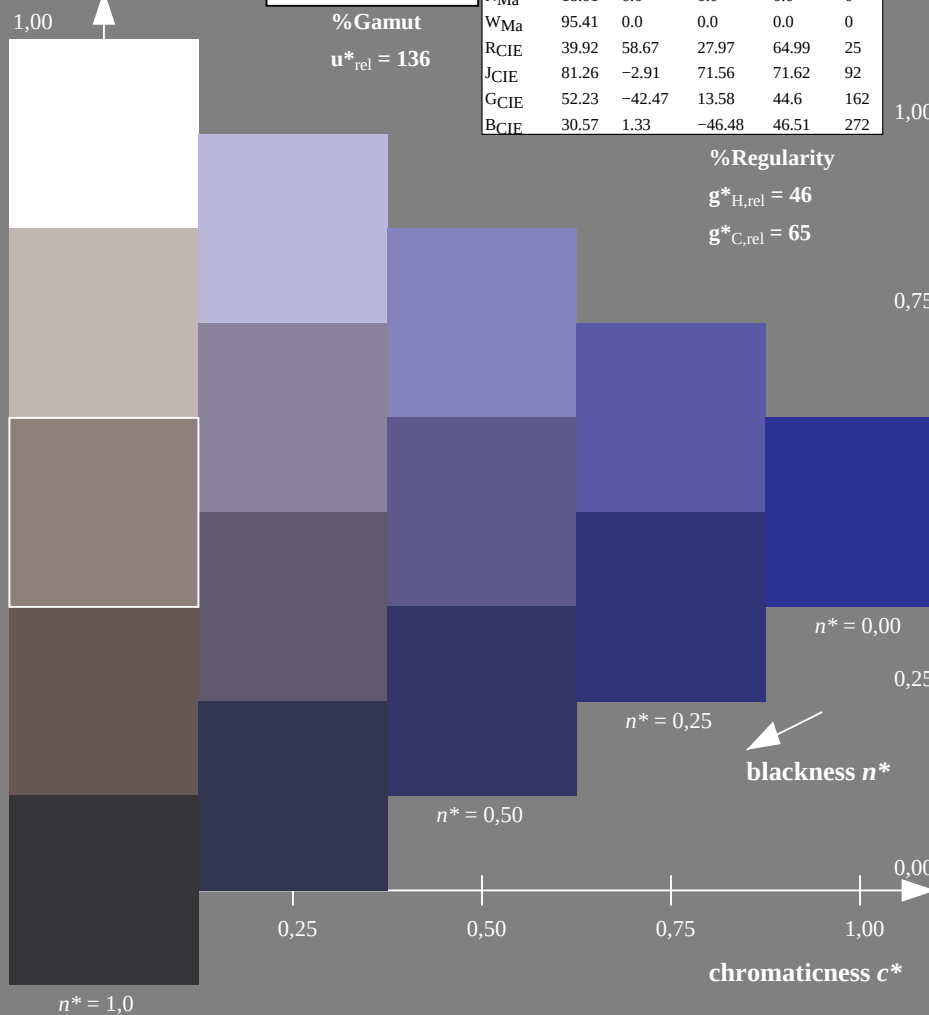


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIE LAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

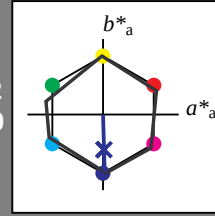
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

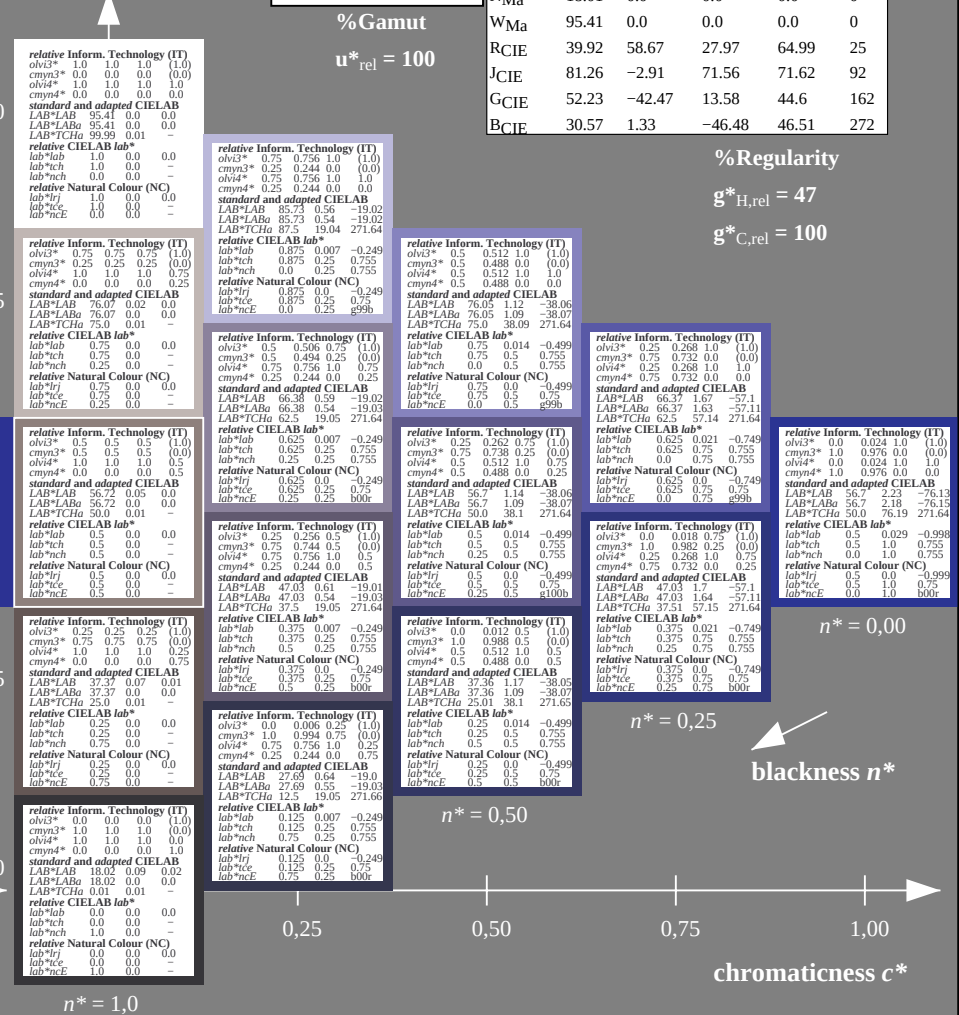


NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



$n^* = 1,0$

5 step scales for constant CIE LAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

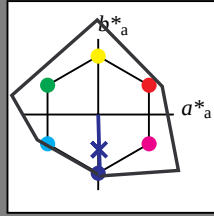
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

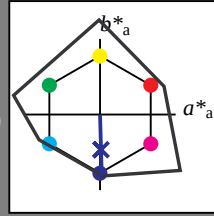
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

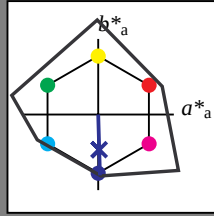
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 136$

NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

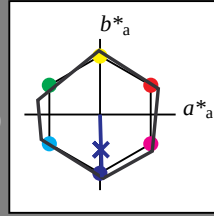
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

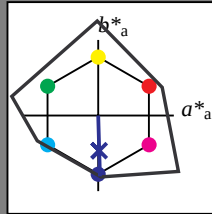
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.06	167
G50B _{Ma}	59.47	-80.61	-33.45	87.28	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

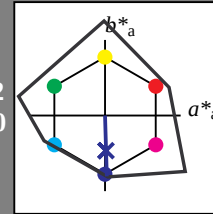
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

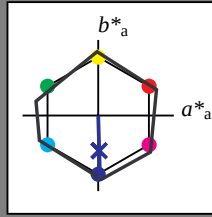
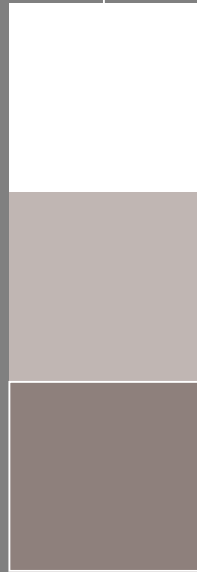
D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,50

0,25

0,00

0,25

0,50

0,75

1,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

0,50

0,75

1,00

$n^* = 1,0$

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

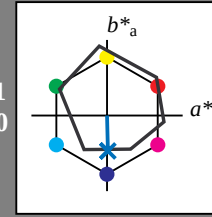
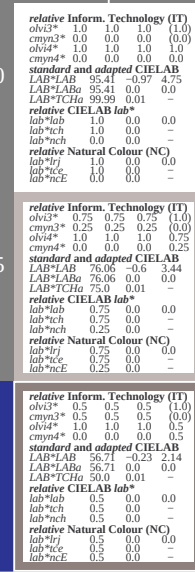
D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

0,50

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

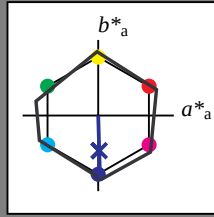
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 91$

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

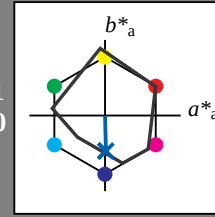
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

standard and adapted CIELAB

relative CIELAB lab*

relative Inform. Technology (IT)

relative CIELAB lab*

relative Natural Colour (NC)

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25

0,50

0,75

1,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

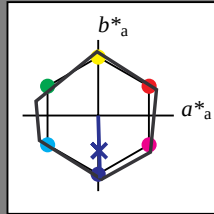
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

0,25

0,00

blackness n^*

chromaticness c^*

$n^* = 1,0$

0,25

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness

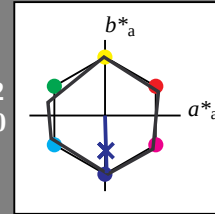
triangle lightness

triangle lightness

triangle lightness

triangle lightness

triangle lightness



% Gamut

$u^*_{rel} = 100$

NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

0,25

0,50

0,75

1,00

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

1,00

0,25

0,50

0,75

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

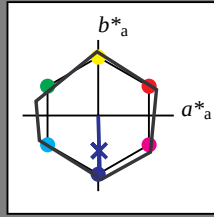
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

% Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

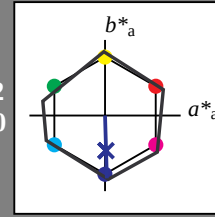
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

0,75

0,25

0,00

$n^* = 0,00$

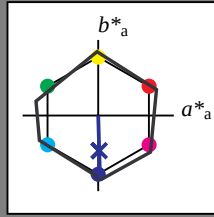
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

0,25

0,00

$n^* = 0,00$

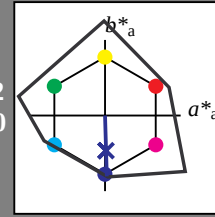
$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

blackness n^*



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

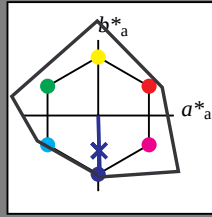
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

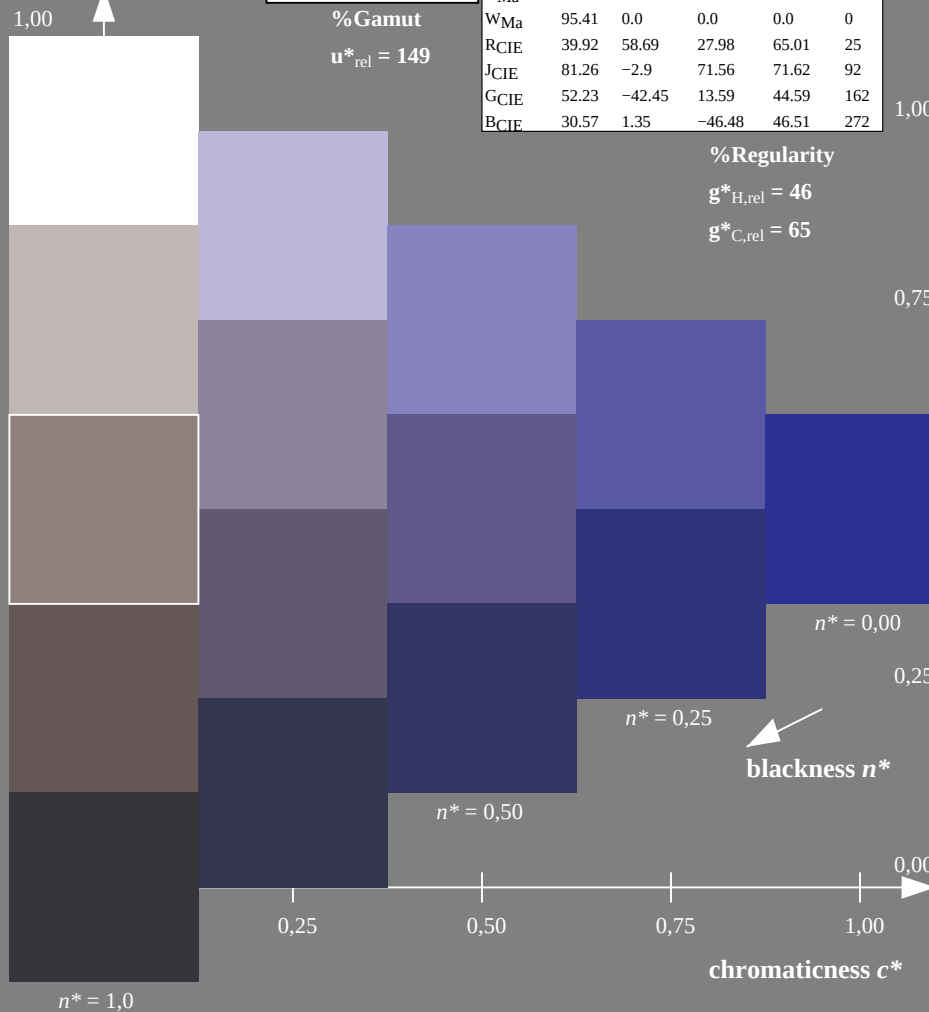


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

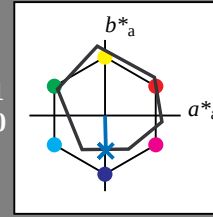
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

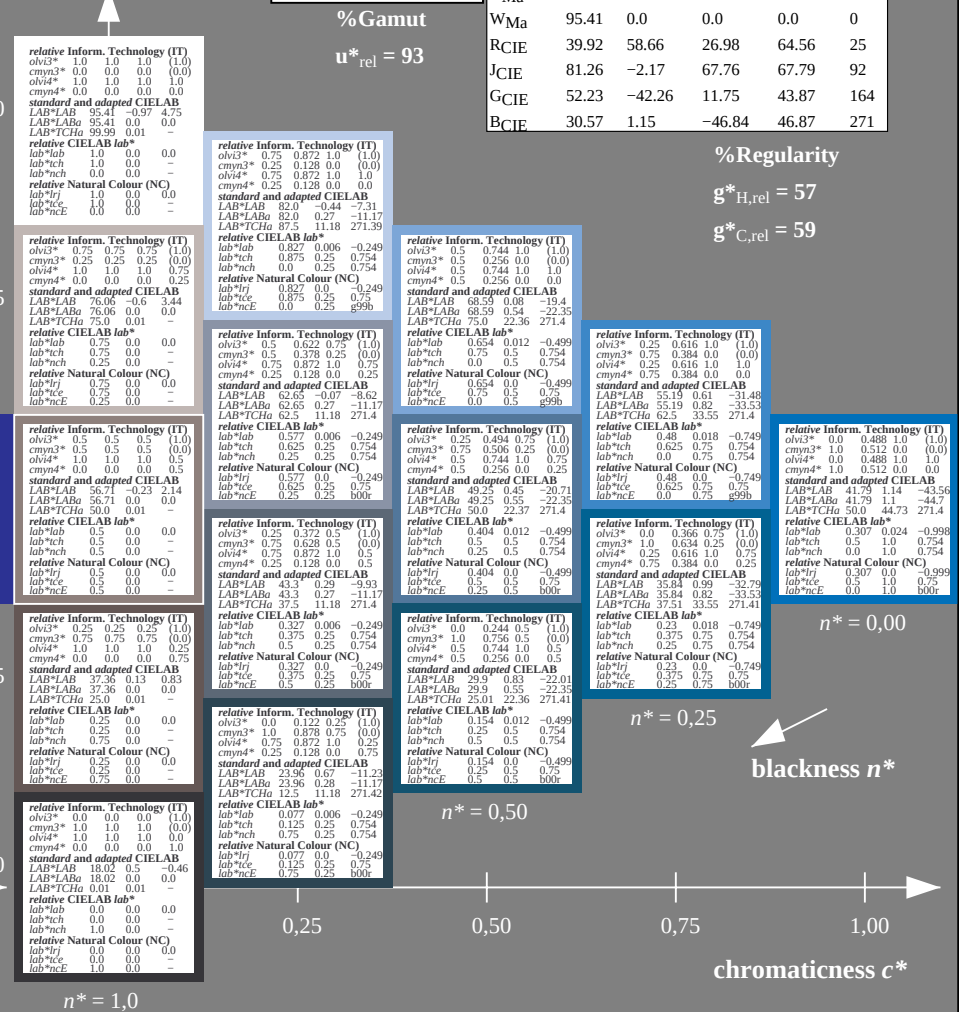


ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$



5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

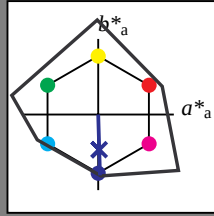
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



% Gamut

$u^*_{rel} = 149$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

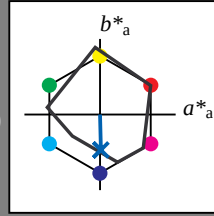
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness



% Gamut

$u^*_{rel} = 91$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,50

0,25

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

0,00

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

0,75

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

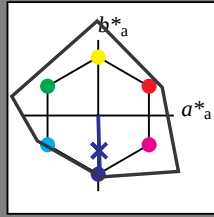
$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Output: Colorimetric Reflective System TRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

0,75

blackness n^*

$n^* = 0,00$

0,25

$n^* = 0,25$

0,50

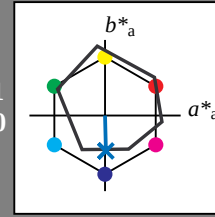
$n^* = 0,50$

0,75

1,00

chromaticness c^*

$n^* = 1,0$



	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

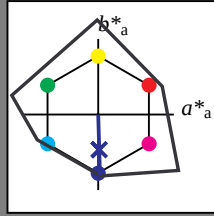
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 272/360 = 0.755$

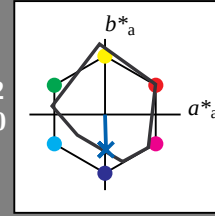
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

triangle lightness



MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 0,50$

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

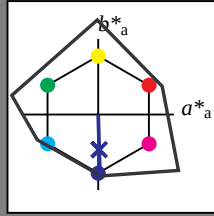
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NRS18

for hue $h^* = lab^*h = 272/360 = 0.755$

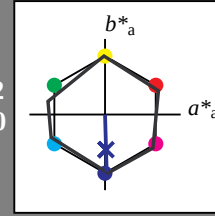
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 76 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness



NRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.66	31.47	77.35	24
JMa	56.7	-1.39	77.37	77.39	91
GMa	56.7	-75.46	17.4	77.45	167
G50B _{Ma}	56.7	-71.29	-30.25	77.45	203
B _{Ma}	56.7	4.0	-77.3	77.41	273
B50R _{Ma}	56.7	63.35	-44.4	77.36	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

0,00

chromaticness c^*

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

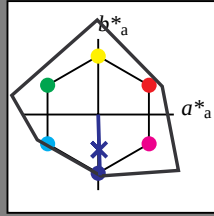
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

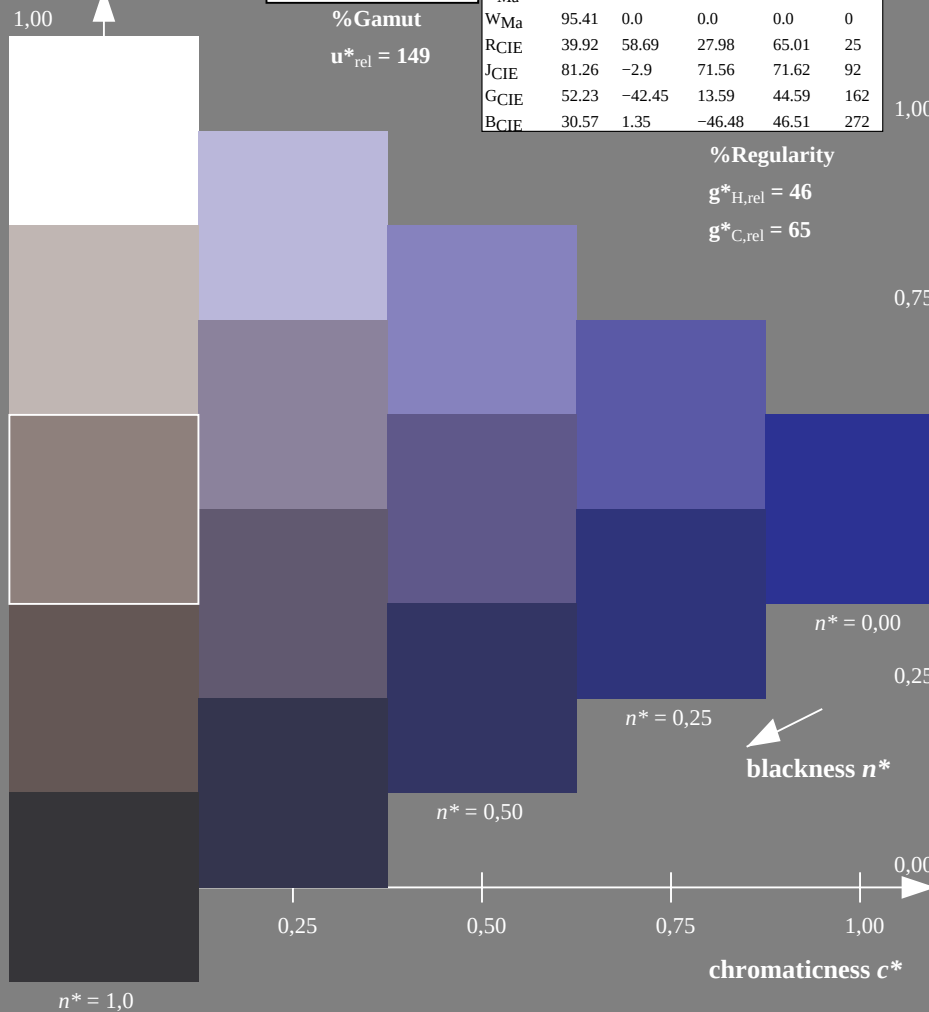


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NCS18

for hue $h^* = lab^*h = 272/360 = 0.755$

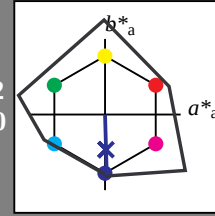
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

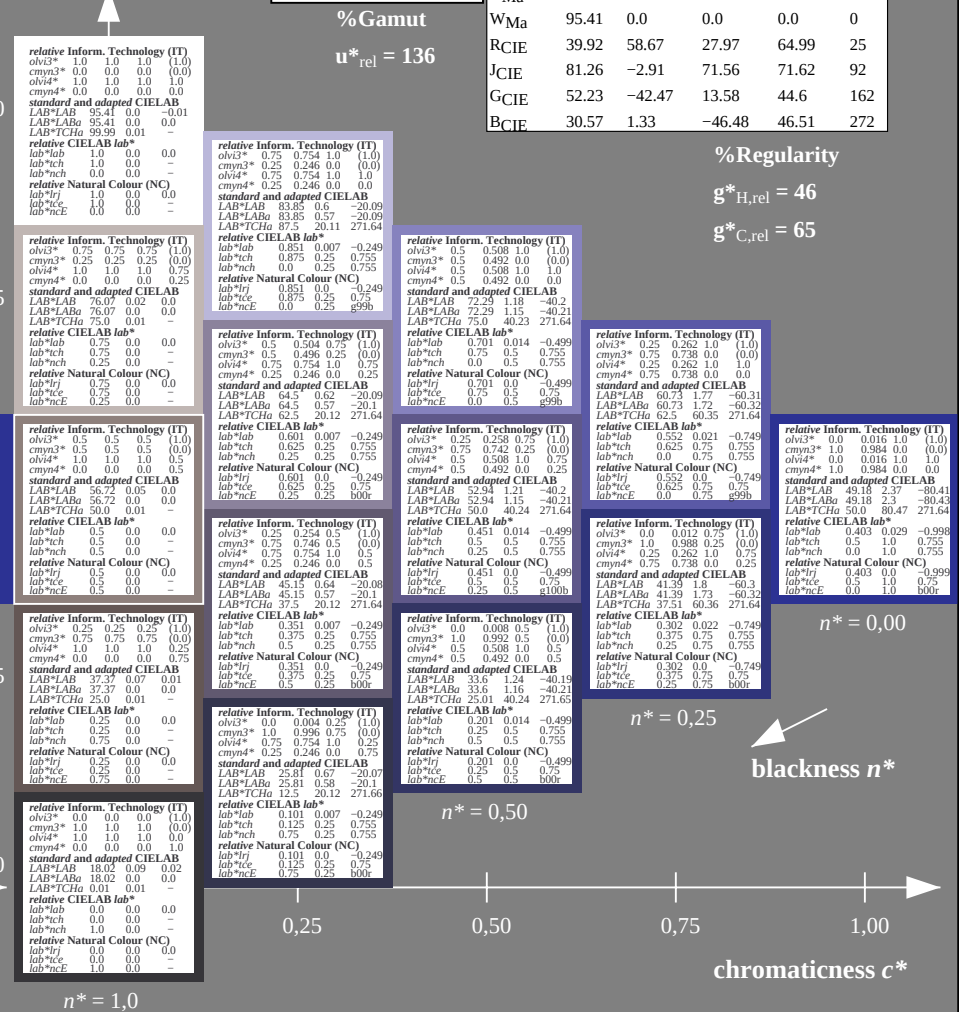


NCS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.63	37.24	92.46	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.29	25.34	117.07	167
G50B _{Ma}	59.47	-80.61	-33.45	87.29	203
B _{Ma}	49.01	3.63	-81.2	81.29	273
B50R _{Ma}	44.06	106.07	-73.94	129.31	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

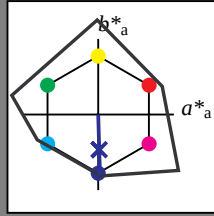
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

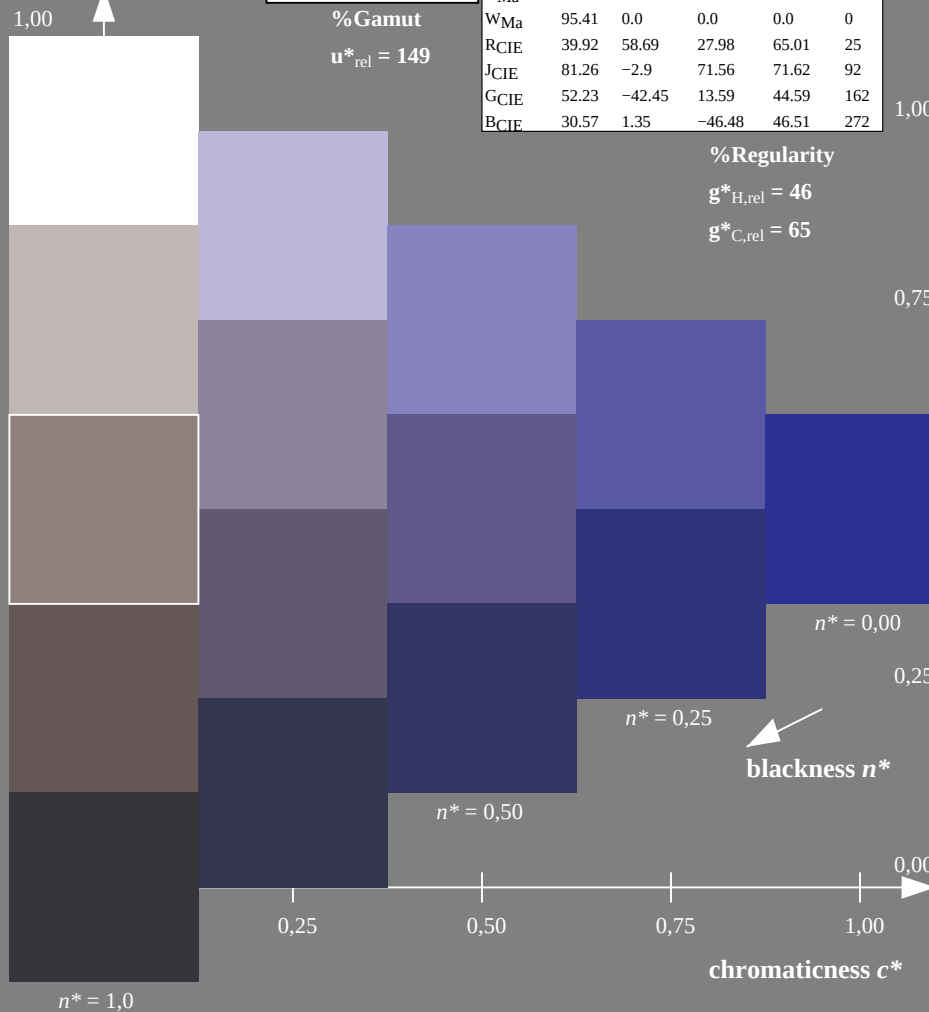


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 272/360 = 0.755$

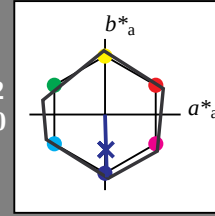
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

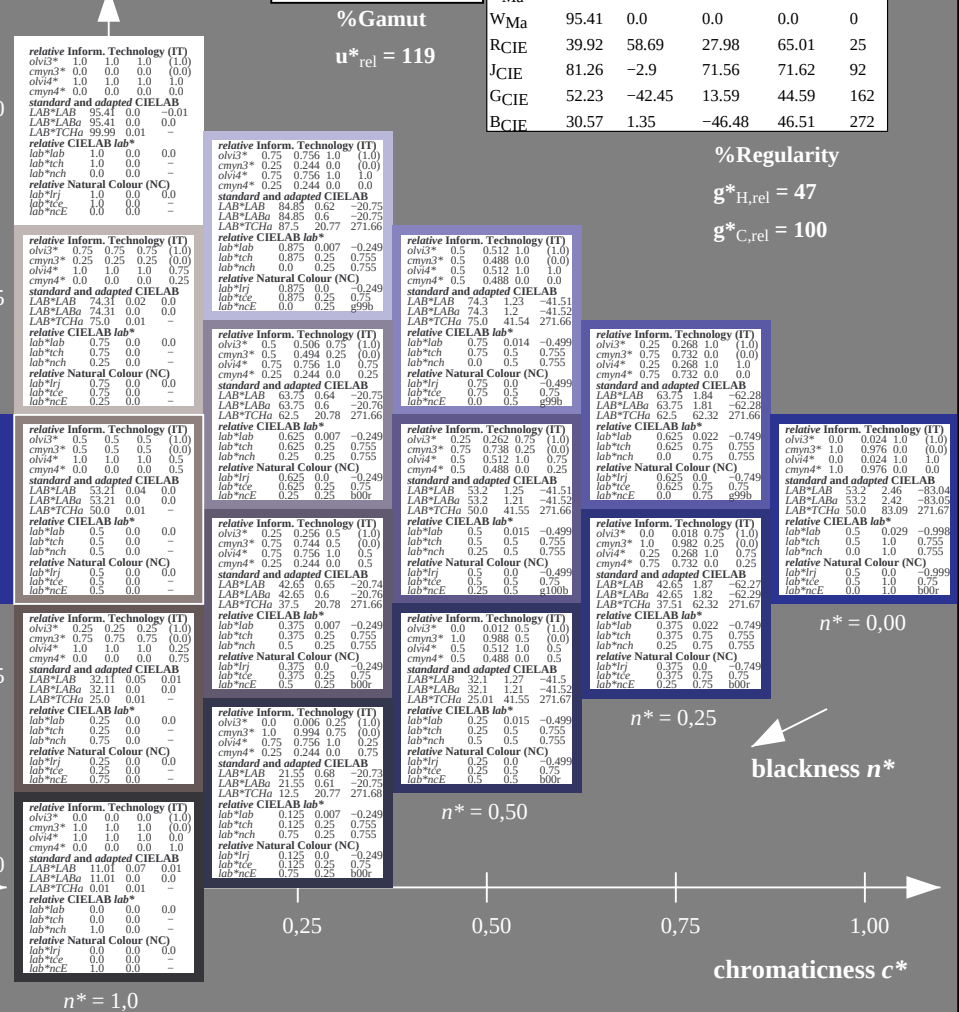


NRS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

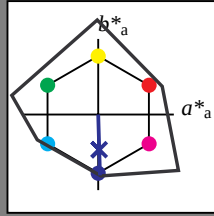
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

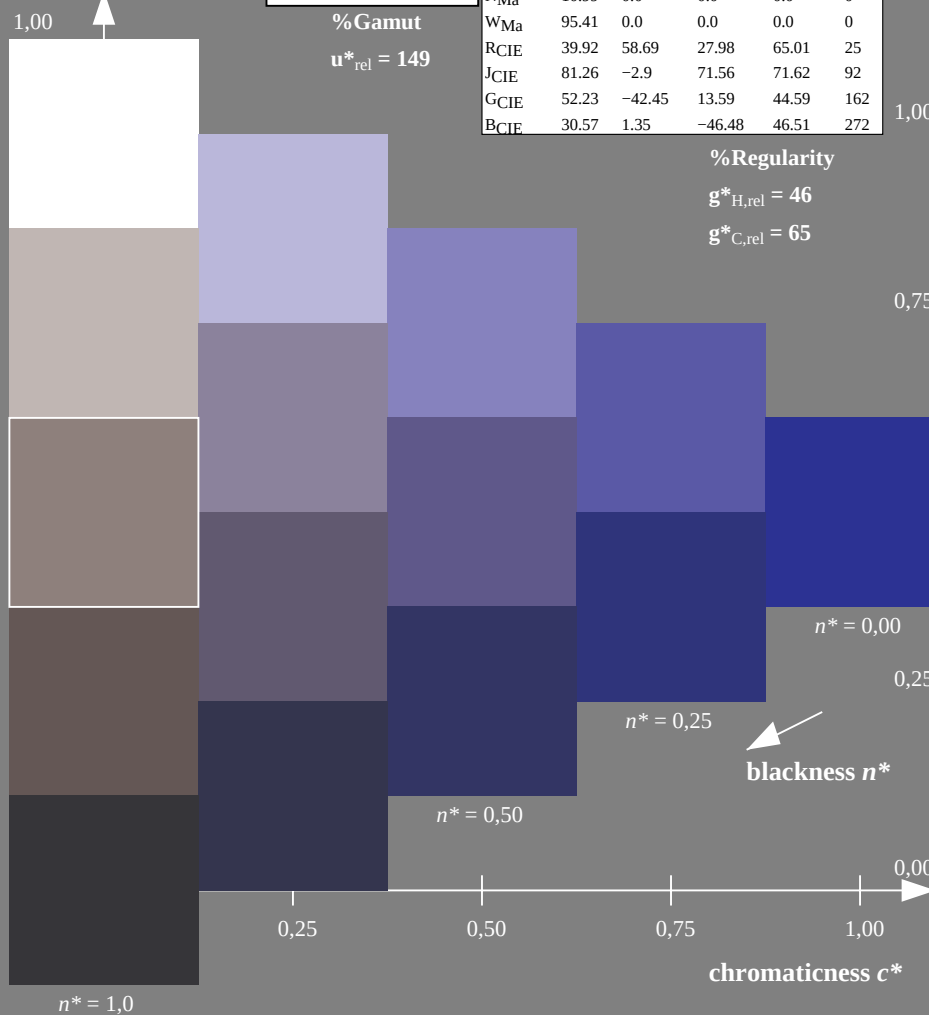


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



UE400-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

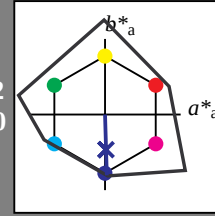
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

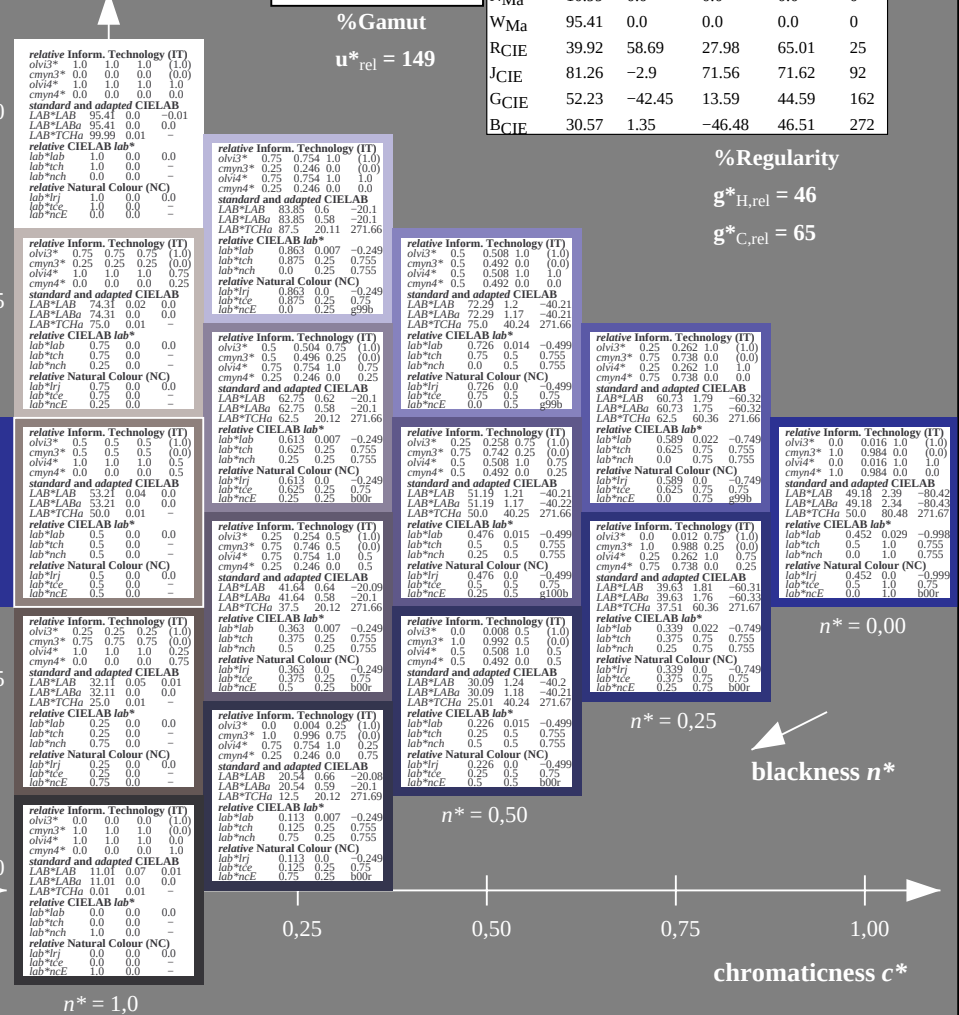


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$



5 step scales for constant CIELAB hue 272/360 = 0.755 (right)