

Input: Colorimetric Reflective System MRS18a

for hue $h^* = \text{lab}^*h = 31/360 = 0.086$

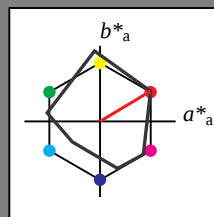
lab^*ich and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 92$

%Regularity

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

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

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

Output: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 38/360 = 0.105$

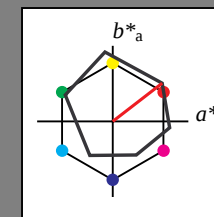
lab^*ich and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 93$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

chromaticness c^*

blackness n^*

$n^* = 0,00$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

chromaticness c^*

UE660-7, 3 step scales for constant CIELAB hue 31/360 = 0.086 (left)

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

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: $\text{cmy0}^* \text{ setcmykcolor}$

D65: 3 and 5 step colour scales for 10 hues

output: no change compared to input

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

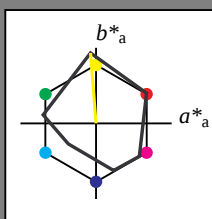
lab^*ich and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 92$

%Regularity

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

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

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

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

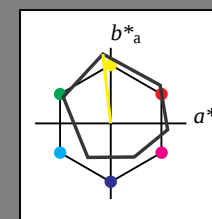
lab^*ich and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



%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	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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

0,50

0,25

0,00

0,25

$n^* = 0,50$

chromaticness c^*

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,50$

$n^* = 0,75$

chromaticness c^*

$n^* = 1,00$

blackness n^*

$n^* = 0,25$

$n^* = 0,00$

UE660-7, 3 step scales for constant CIELAB hue 94/360 = 0.262 (left)

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: $cmY0^*$ setcmykcolor

D65: 3 and 5 step colour scales for 10 hues

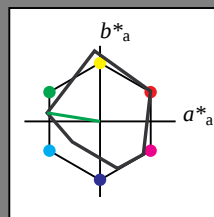
output: no change compared to input

Input: Colorimetric Reflective System MRS18a

for hue $h^* = \text{lab}^*h = 171/360 = 0.475$
 lab^*ich and lab^*nch

D65: hue G
LCH*Ma: 52 71 171
rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut
 $u^*_{\text{rel}} = 92$
%Regularity
 $g^*_{H,\text{rel}} = 42$
 $g^*_{C,\text{rel}} = 49$

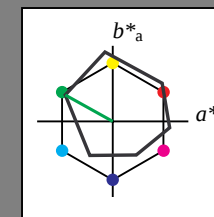
MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	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

Output: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 151/360 = 0.419$
 lab^*ich and lab^*nch

D65: hue L
LCH*Ma: 51 72 151
rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut
 $u^*_{\text{rel}} = 93$
%Regularity
 $g^*_{H,\text{rel}} = 57$
 $g^*_{C,\text{rel}} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

blackness n^*

chromaticness c^*

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

chromaticness c^*

UE660-7, 3 step scales for constant CIELAB hue 171/360 = 0.475 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: *cmY0* setcmykcolor*

D65: 3 and 5 step colour scales for 10 hues

output: *no change compared to input*

Input: Colorimetric Reflective System MRS18a

for hue $h^* = \text{lab}^*h = 217/360 = 0.601$

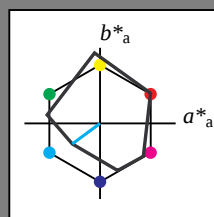
lab^*ich and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 92$

%Regularity

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

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

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

Output: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 236/360 = 0.656$

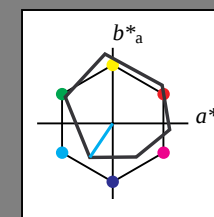
lab^*ich and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 93$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50B _{Ma}	58.62	-30.35	-45.01	54.3	236
B _{Ma}	25.71	31.11	-44.42	54.24	305
B50R _{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

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

chromaticness c^*

blackness n^*

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

chromaticness c^*

blackness n^*

UE660-7, 3 step scales for constant CIELAB hue 217/360 = 0.601 (left)

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: *cmY0* setcmykcolor*

D65: 3 and 5 step colour scales for 10 hues

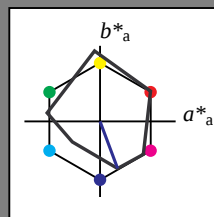
output: *no change compared to input*

Input: Colorimetric Reflective System MRS18a

for hue $h^* = \text{lab}^*h = 290/360 = 0.807$
 lab^*ich and lab^*nch

D65: hue B
LCH*Ma: 37 66 290
rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut
 $u^*_{\text{rel}} = 92$
%Regularity
 $g^*_{H,\text{rel}} = 42$
 $g^*_{C,\text{rel}} = 49$

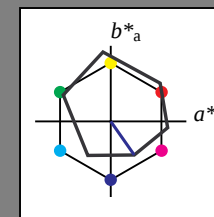
MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	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

Output: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 305/360 = 0.847$
 lab^*ich and lab^*nch

D65: hue V
LCH*Ma: 26 54 305
rgb*Ma: 0.0 0.0 1.0

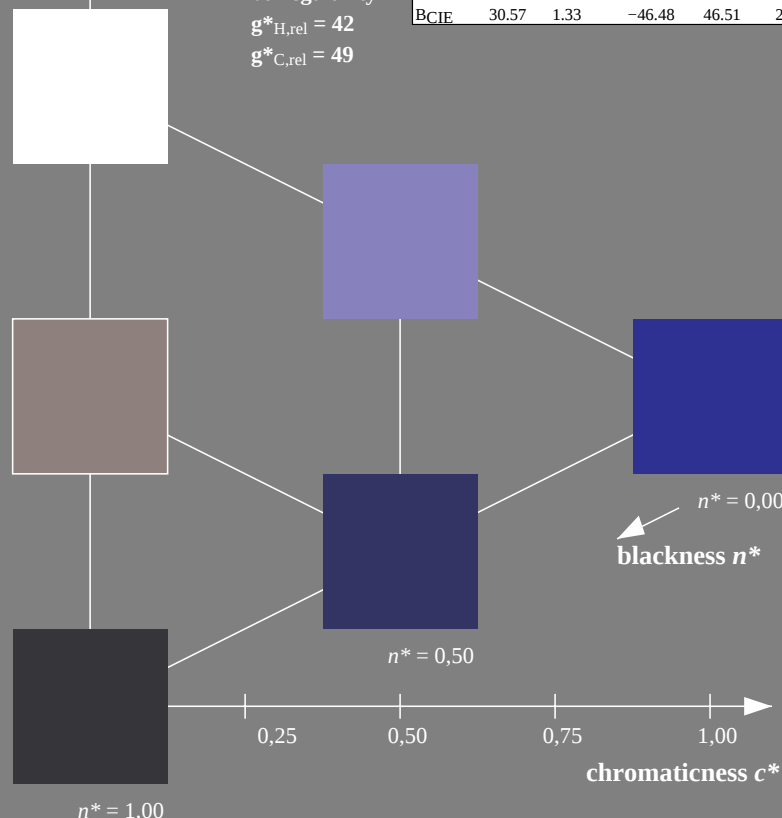
triangle lightness t^*



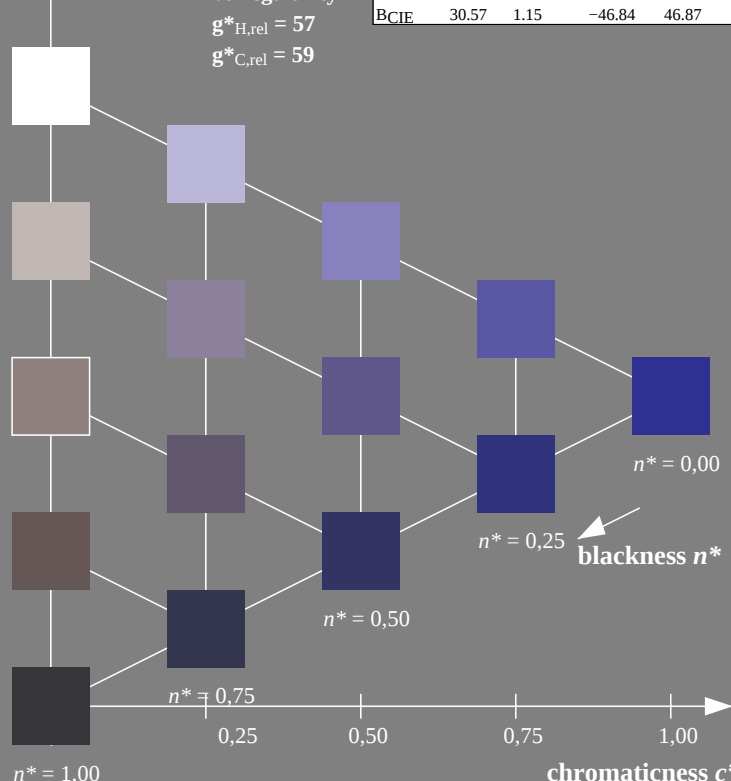
%Gamut
 $u^*_{\text{rel}} = 93$
%Regularity
 $g^*_{H,\text{rel}} = 57$
 $g^*_{C,\text{rel}} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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
0,50
0,25
0,00



1,00
0,75
0,50
0,25
0,00



UE660-7, 3 step scales for constant CIELAB hue 290/360 = 0.807 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: *cmY0* setcmykcolor*
D65: 3 and 5 step colour scales for 10 hues

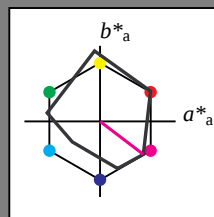
output: no change compared to input

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$
 lab^*ich and lab^*nch

D65: hue B50R
LCH*Ma: 35 72 323
rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



%Gamut
 $u^*_{rel} = 92$
%Regularity
 $g^*_{H,rel} = 42$
 $g^*_{C,rel} = 49$

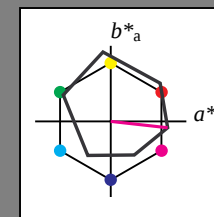
MRS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	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

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$
 lab^*ich and lab^*nch

D65: hue M
LCH*Ma: 48 76 354
rgb*Ma: 1.0 0.0 1.0

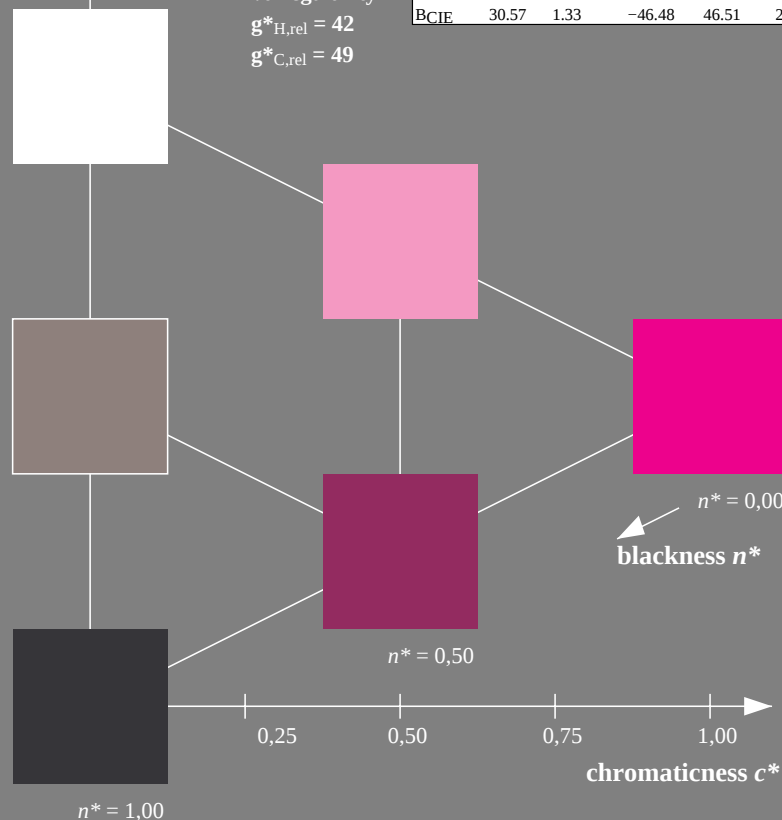
triangle lightness t^*



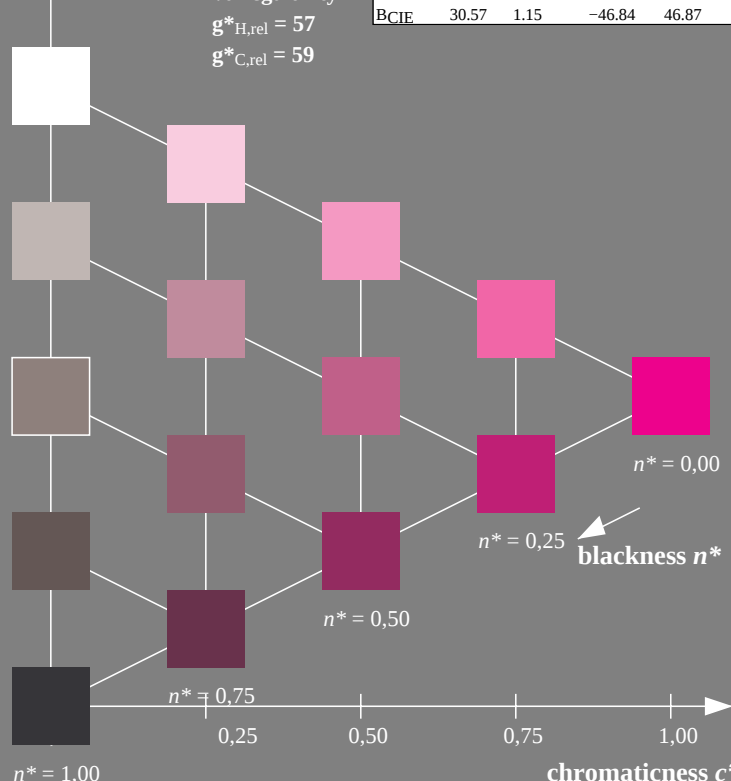
%Gamut
 $u^*_{rel} = 93$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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
0,50
0,25
0,00



1,00
0,75
0,50
0,25
0,00



UE660-7, 3 step scales for constant CIELAB hue 323/360 = 0.896 (left)

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: *cmY0* setcmykcolor*
D65: 3 and 5 step colour scales for 10 hues

output: no change compared to input

Input: Colorimetric Reflective System MRS18a

for hue $h^* = \text{lab}^*h = 25/360 = 0.071$

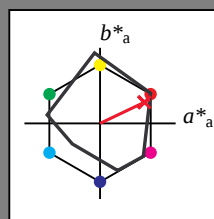
lab^*ich and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 92$

%Regularity

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

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

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

Output: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 25/360 = 0.069$

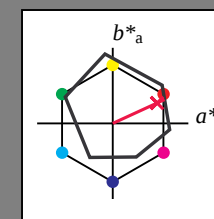
lab^*ich and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 93$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

chromaticness c^*

blackness n^*

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

chromaticness c^*

blackness n^*

UE660-7, 3 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: $\text{cmy0}^* \text{ setcmykcolor}$

D65: 3 and 5 step colour scales for 10 hues

output: no change compared to input

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

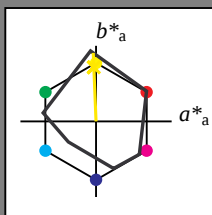
lab^*ich and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 92$

%Regularity

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

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

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

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

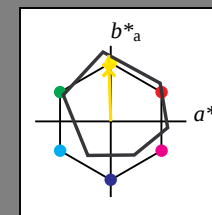
lab^*ich and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness t^*



%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	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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

0,50

0,25

0,00

0,25

$n^* = 0,50$

chromaticness c^*

$n^* = 1,00$

blackness n^*

$n^* = 0,00$

1,00

0,75

0,50

0,25

0,00

$n^* = 0,50$

$n^* = 0,75$

chromaticness c^*

$n^* = 1,00$

blackness n^*

$n^* = 0,25$

$n^* = 0,00$

UE660-7, 3 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: $cmY0^*$ set $cmYcolor$

D65: 3 and 5 step colour scales for 10 hues

output: no change compared to input

Input: Colorimetric Reflective System MRS18a

for hue $h^* = \text{lab}^*h = 162/360 = 0.451$

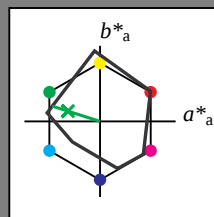
lab^*ich and lab^*nch

D65: hue G

LCH*Ma: 56 66 162

rgb*Ma: 0.11 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 92$

%Regularity

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

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

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

Output: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 164/360 = 0.457$

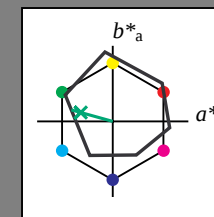
lab^*ich and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 93$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.94	65.37	50.52	82.62	38
JMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
G50BMa	58.62	-30.35	-45.01	54.3	236
BMa	25.71	31.11	-44.42	54.24	305
B50RMa	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

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

chromaticness c^*

blackness n^*

$n^* = 0,00$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

$n^* = 0,25$

blackness n^*

$n^* = 0,00$

chromaticness c^*

UE660-7, 3 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

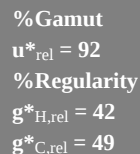
BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: *cmY0* setcmykcolor*

D65: 3 and 5 step colour scales for 10 hues

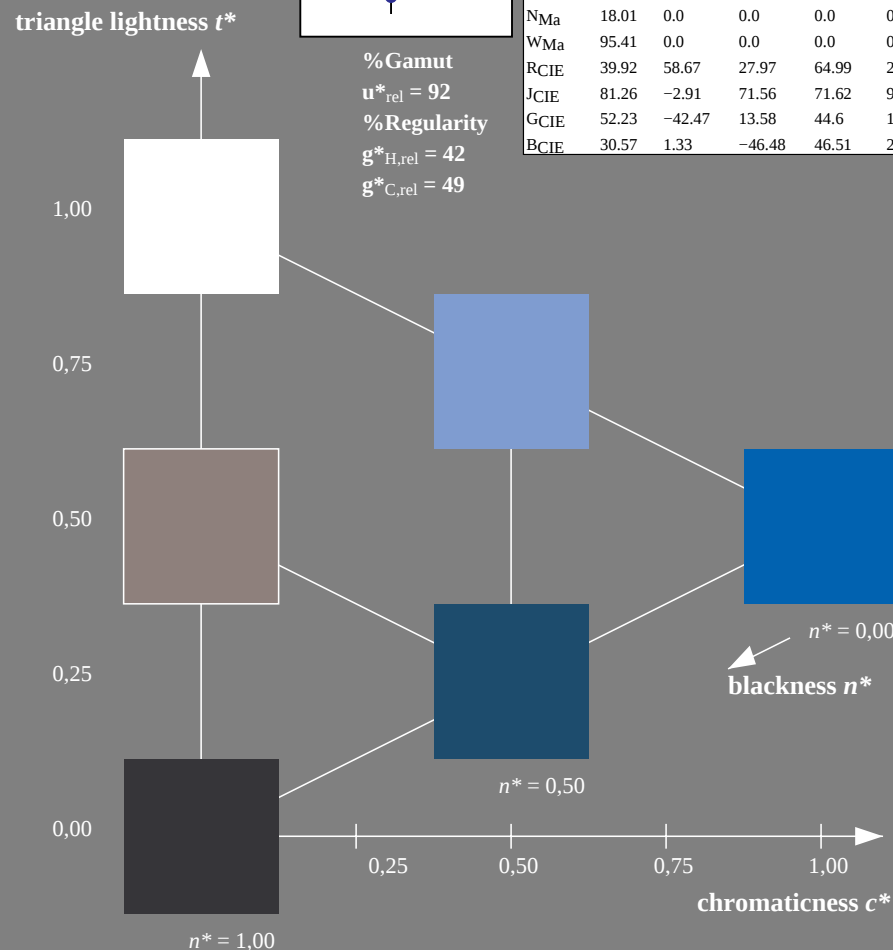
output: *no change compared to input*

*lab*tch* and *lab*nch*

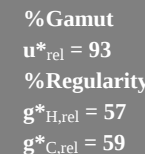
D65: hue B
LCH*Ma: 40 49 272
rgb*Ma: 0.0 0.36 1.0



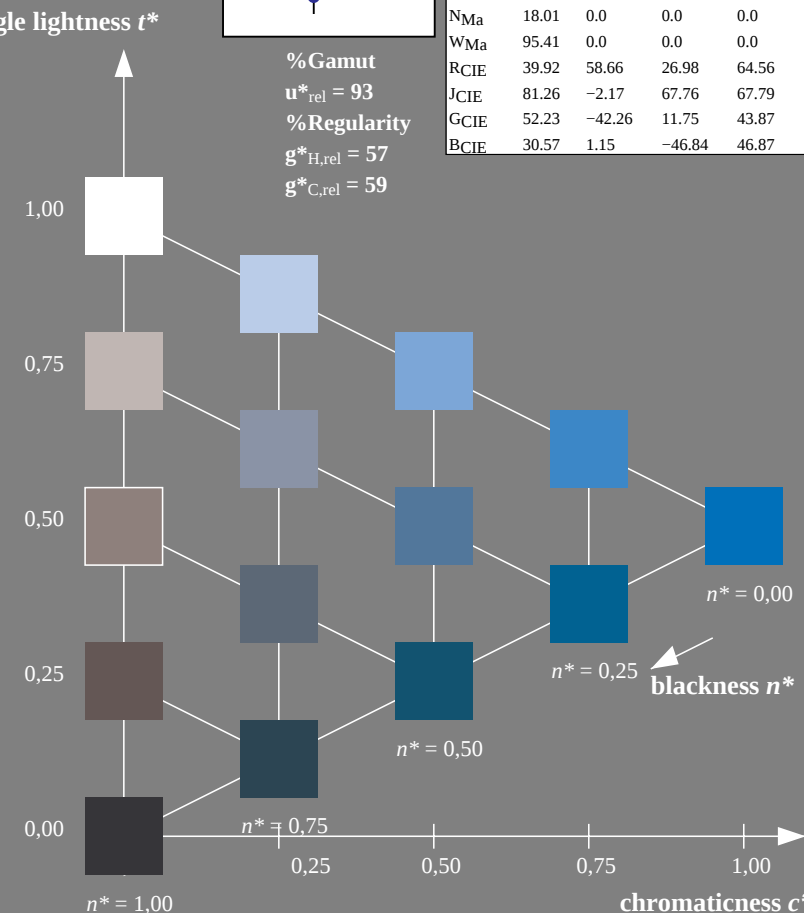
MRS18a; adapted (a)		CIELAB data				
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	49.63	66.8	40.02	77.87	31	
JMa	90.7	-7.27	93.19	93.48	94	
GMa	52.11	-69.93	11.26	70.85	171	
G50BMa	45.03	-36.65	-27.13	45.61	217	
BMa	36.65	23.26	-62.27	66.49	290	
B50RMa	34.94	57.27	-43.6	71.99	323	
NMa	18.01	0.0	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	



lab*tch* and *lab*nch



ORS18; adapted (a) CIELAB data						
		L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
a	RMa	47.94	65.37	50.52	82.62	38
	JMa	90.37	-10.27	91.77	92.34	96
	GMa	50.9	-62.79	34.95	71.87	151
	G50BMa	58.62	-30.35	-45.01	54.3	236
	BMa	25.71	31.11	-44.42	54.24	305
	B50RMa	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	277	



UE660-7, 3 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: *cmY0* setcmykcolor*

D65: 3 and 5 step colour scales for 10 hues

output: *no change compared to input*