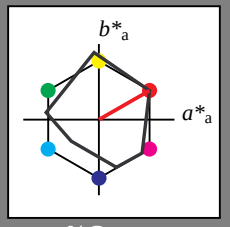
Input: Colorimetric Reflective System MRS18

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 *t**



%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

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

%Regularity

g*H,rel = 41
g*C,rel = 52

n* = 1,0
n* = 0,75
n* = 0,50
n* = 0,25
n* = 0,00

blackness *n**

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

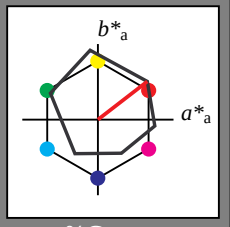
chromaticness *c**

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 *t**



%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* = 1,0
n* = 0,75
n* = 0,50
n* = 0,25
n* = 0,00

blackness *n**

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

chromaticness *c**

UE550−7, 5 step scales for constant CIELAB hue 30/360 = 0.083 (left)

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

BAM-test chart UE55; Colorimetric systems MRS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

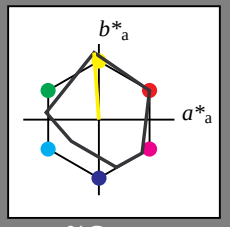
input: *cmy0* setcmykcolor*
output: *no change compared to input*

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 *t**



%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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

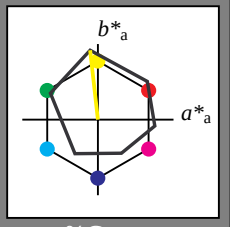
g*$_{C,rel}$ = 52

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 *t**



%Gamut

u*$_{rel}$ = 93

ORS18; adapted (a) CIELAB data

	L*=L*$_a$	a*$_a$	b*$_a$	C*$_{ab,a}$	h*$_{ab,a}$
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	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* = 1,0
n* = 0,75
n* = 0,50
n* = 0,25
n* = 0,00

blackness *n**

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

chromaticness *c**

UE550−7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

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

BAM-test chart UE55; Colorimetric systems MRS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

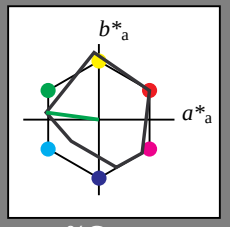
input: *cmy0* setcmykcolor*
output: *no change compared to input*

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 *t**



%Gamut
u*rel = 91

%Regularity
g*H,rel = 41
g*C,rel = 52

MRS18; adapted (a) CIELAB data

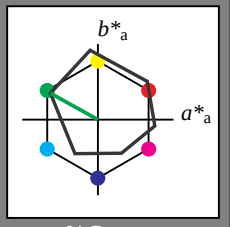
	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	−6.36	88.75	88.98	94
GMa	52.11	−69.73	9.44	70.37	172
G50BMa	45.03	−36.57	−28.47	46.36	218
BMa	36.65	23.19	−63.05	67.18	290
B50RMa	34.94	57.17	−44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	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

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 *t**

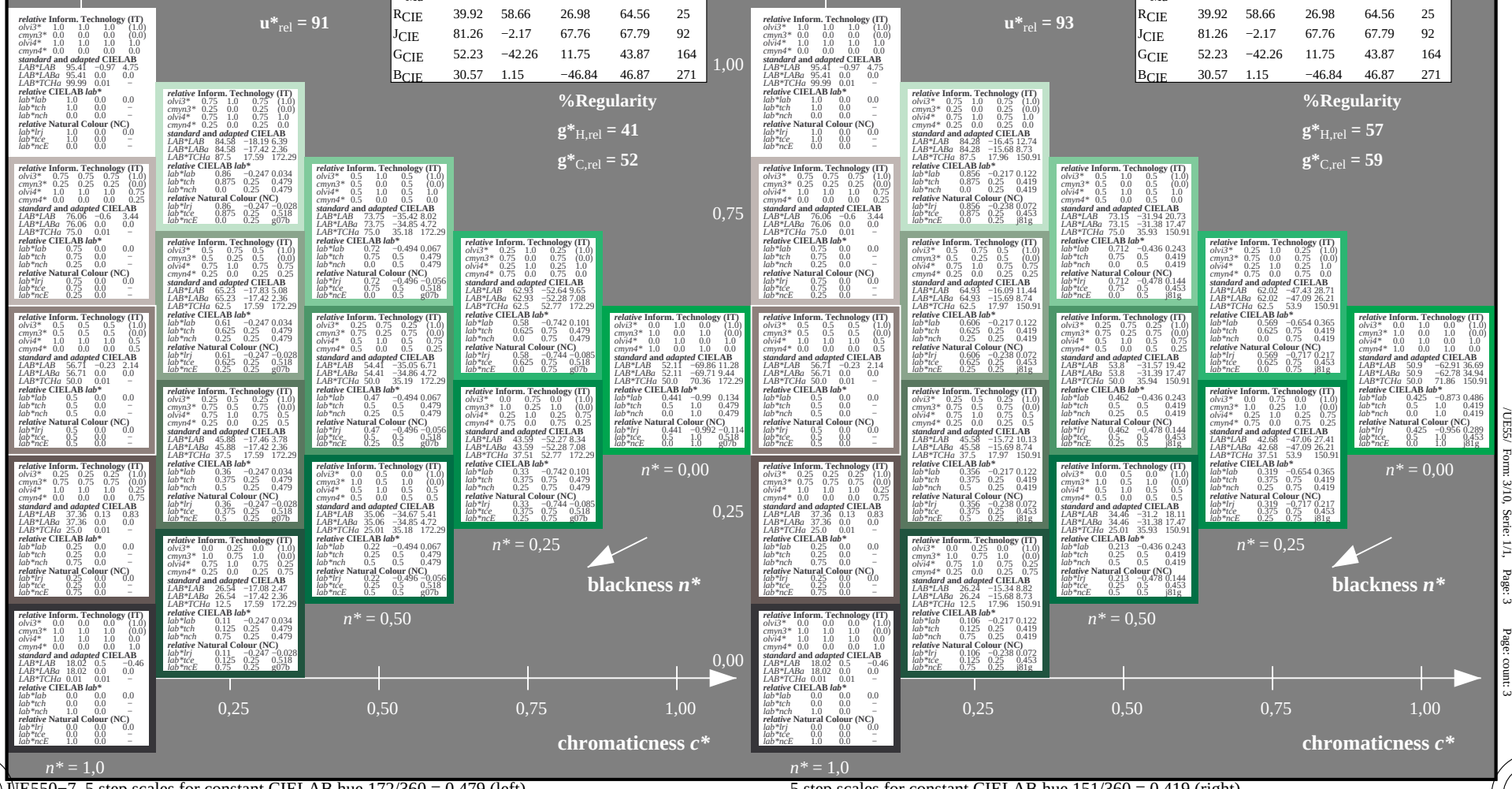


%Gamut
u*rel = 93

%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
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



UE550−7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

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

BAM-test chart UE55; Colorimetric systems MRS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

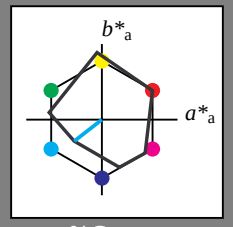
input: *cmy0* setcmykcolor*
output: *no change compared to input*

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 *t**



%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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

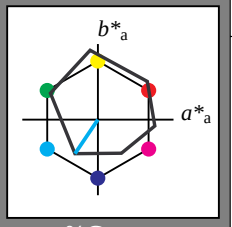
g*$_{C,rel}$ = 52

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 *t**



%Gamut

u*$_{rel}$ = 93

ORS18; adapted (a) CIELAB data

	L*=L*$_a$	a*$_a$	b*$_a$	C*$_{ab,a}$	h*$_{ab,a}$
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	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* = 1,0
n* = 0,75
n* = 0,50
n* = 0,25
n* = 0,00

blackness *n**

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

chromaticness *c**

UE550−7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

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

BAM-test chart UE55; Colorimetric systems MRS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

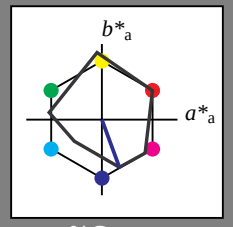
input: *cmy0* setcmykcolor*
output: *no change compared to input*

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 *t**



%Gamut

u*$_{rel}$ = 91

%Regularity

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

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

MRS18; adapted (a) CIELAB data

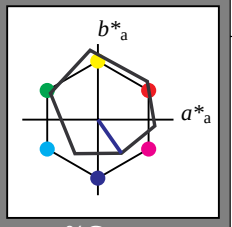
	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

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 *t**



%Gamut

u*$_{rel}$ = 93

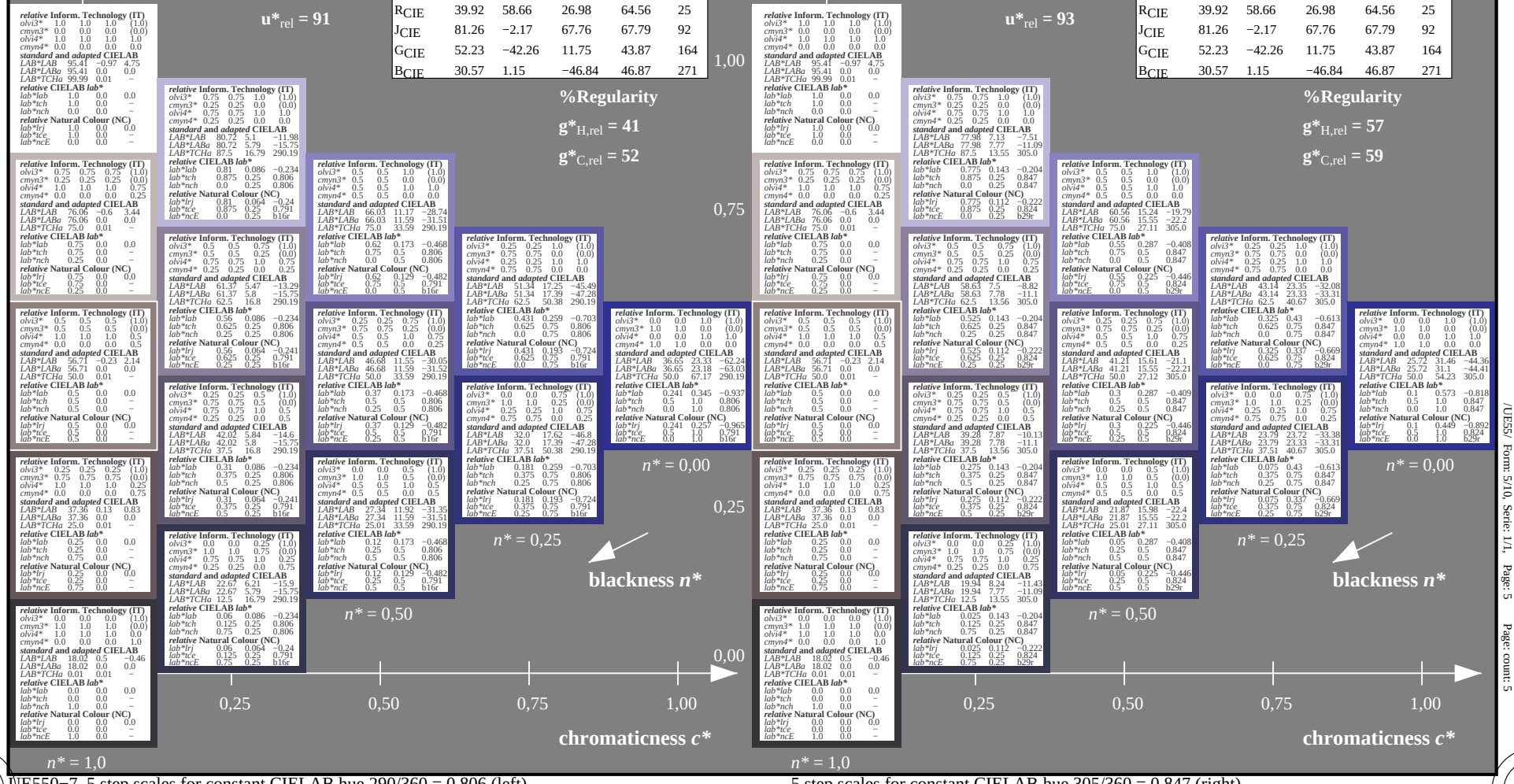
%Regularity

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
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271



UE550−7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

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

BAM-test chart UE55; Colorimetric systems MRS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

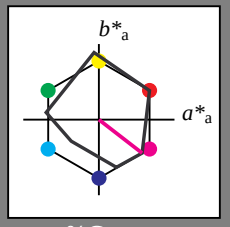
input: *cmy0* setcmykcolor*
output: *no change compared to input*

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 *t**



%Gamut

u*$_{rel}$ = 91

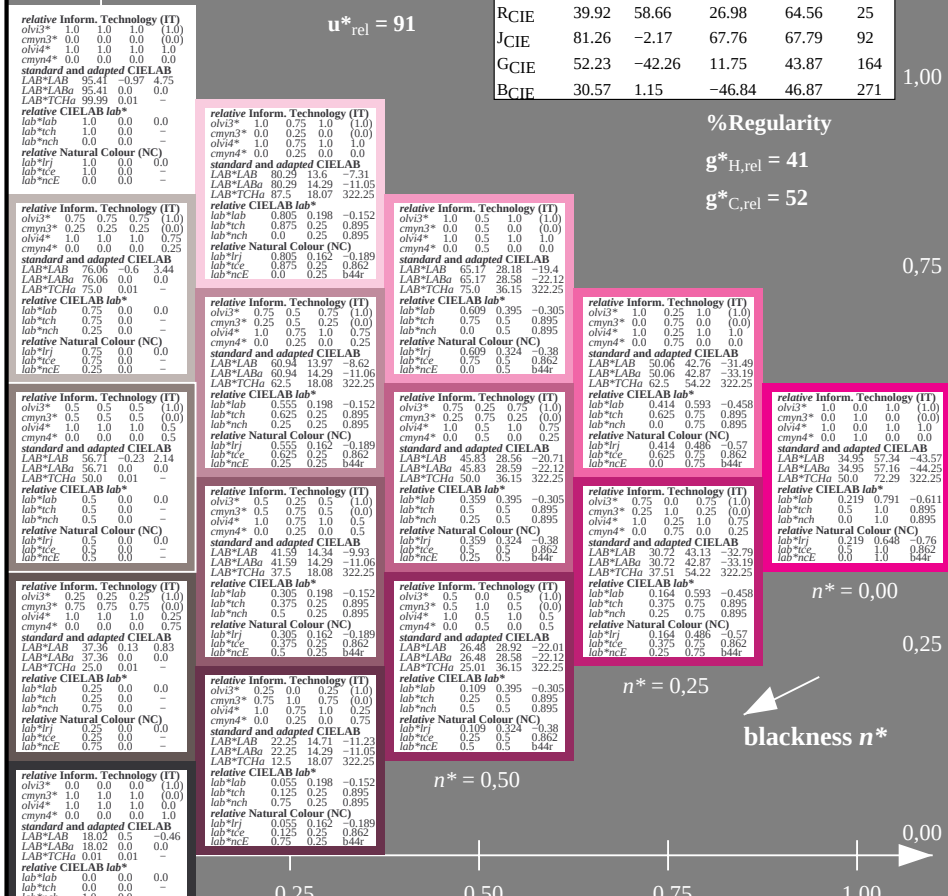
MRS18; adapted (a) CIELAB data

	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

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

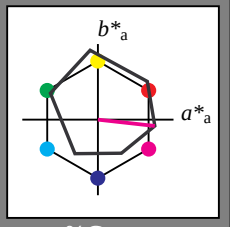


Output: Colorimetric Reflective System ORS18

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 *t**



%Gamut

u*$_{rel}$ = 93

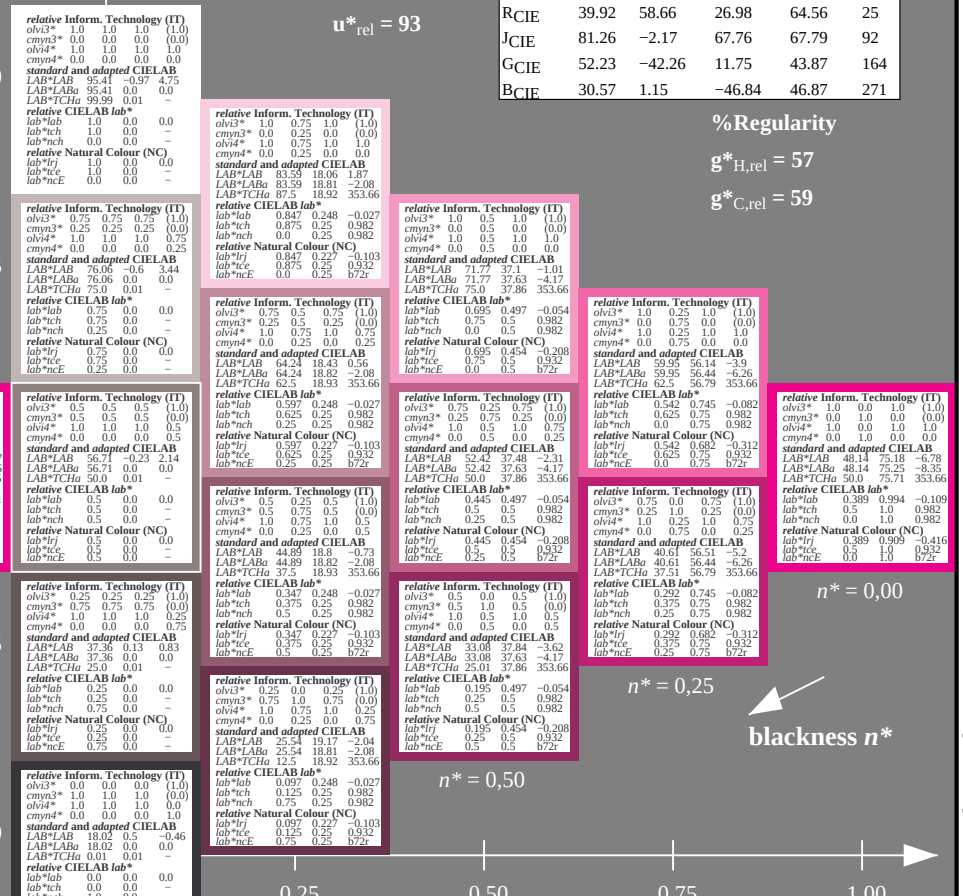
ORS18; adapted (a) CIELAB data

	L*=L*$_a$	a*$_a$	b*$_a$	C*$_{ab,a}$	h*$_{ab,a}$
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

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



UE550−7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

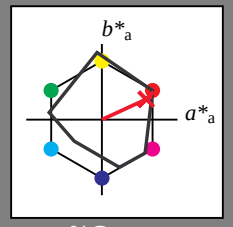
5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

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 *t**



%Gamut

u*$_{rel}$ = 91

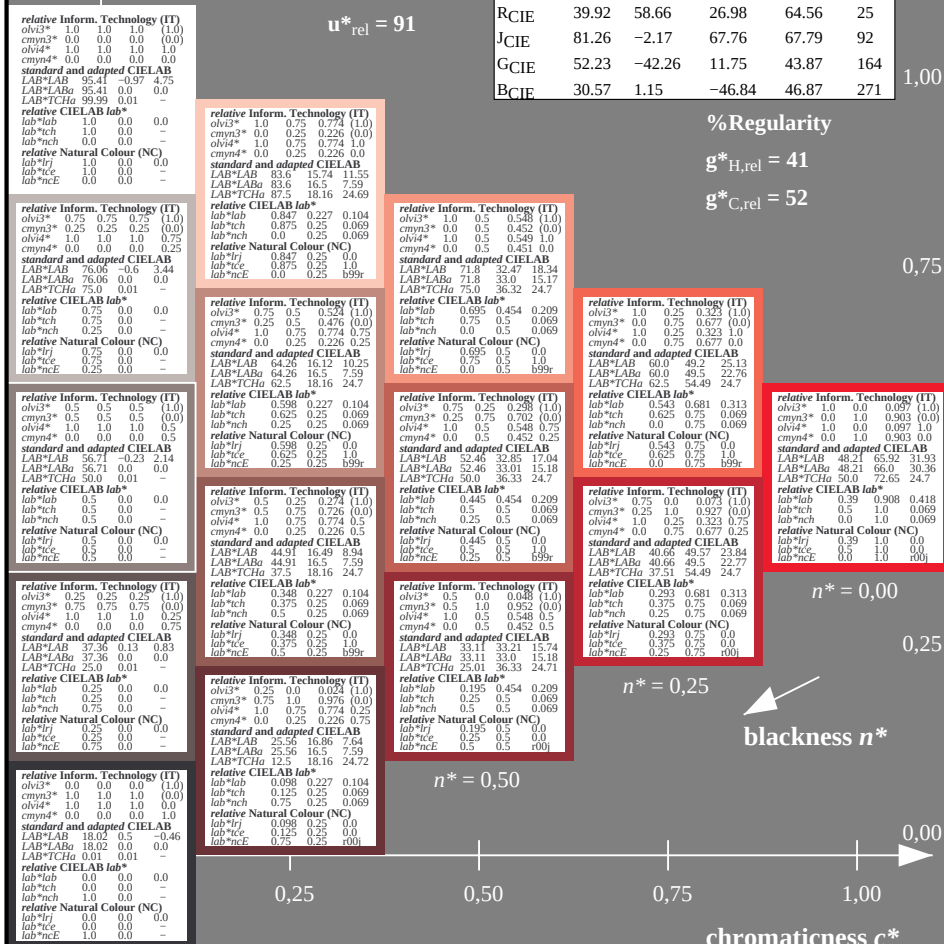
MRS18; adapted (a) CIELAB data

	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

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

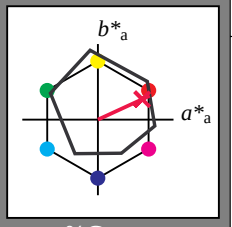


Output: Colorimetric Reflective System ORS18

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 *t**



%Gamut

u*$_{rel}$ = 93

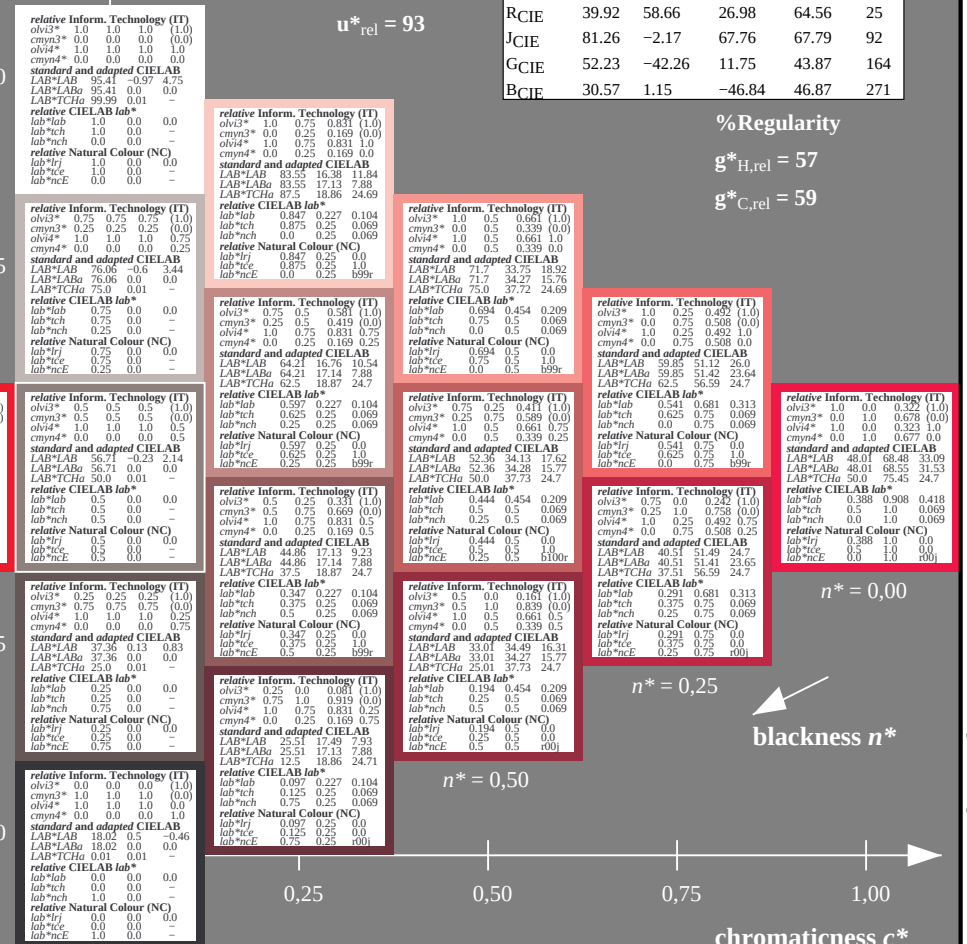
ORS18; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

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



UE550−7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

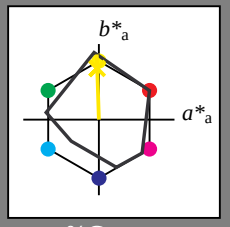
5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

Input: Colorimetric Reflective System MRS18

for hue *h* = lab*h = 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 *t**



%Gamut

u*$_{rel}$ = 91

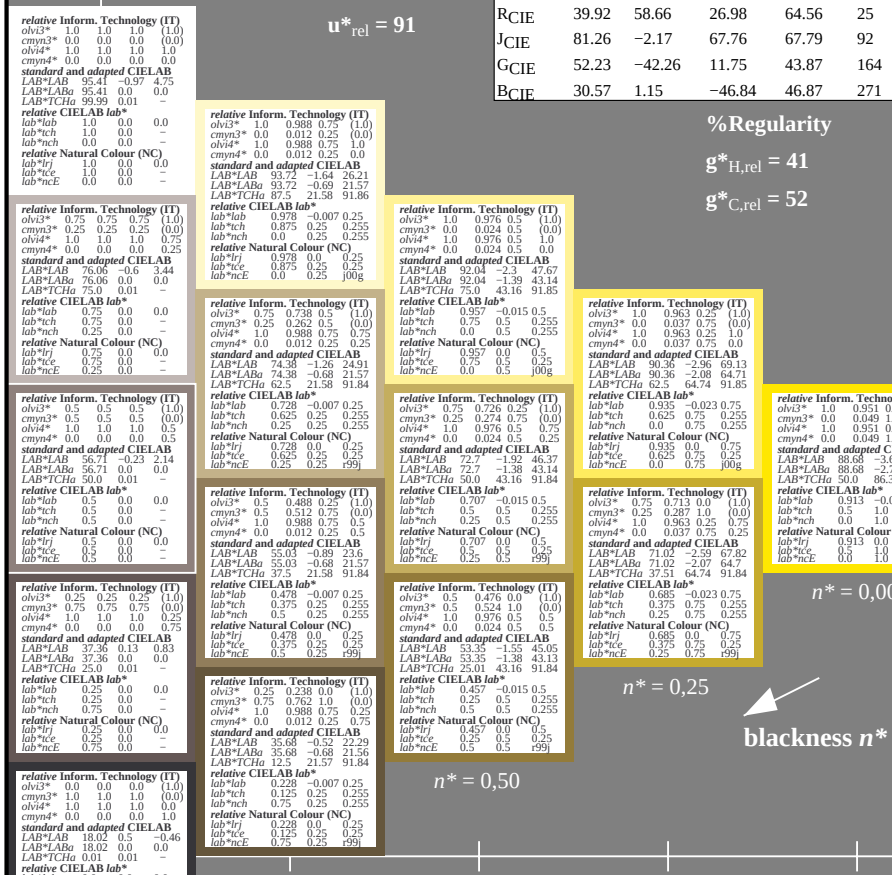
MRS18; adapted (a) CIELAB data

	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

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

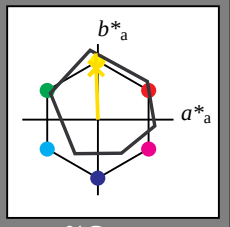


Output: Colorimetric Reflective System ORS18

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 *t**



%Gamut

u*$_{rel}$ = 93

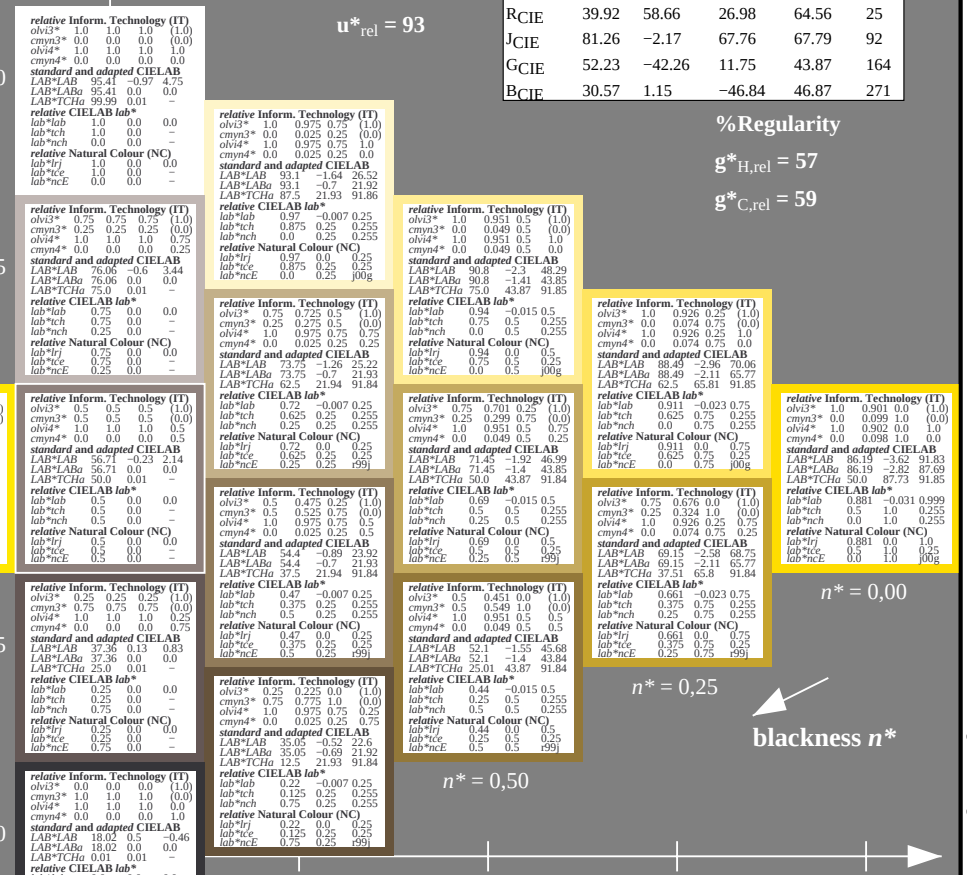
ORS18; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Regularity

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

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



UE550−7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

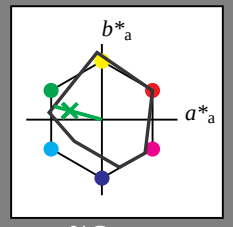
5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System MRS18

for hue *h* = lab*h = 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 *t**



%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

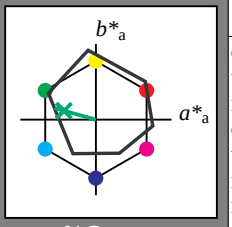
1,00
%Regularity
g*H,rel = 41
g*C,rel = 52
0,75
0,50
0,25
0,00
n* = 1,0
n* = 0,75
n* = 0,50
n* = 0,25
n* = 0,00
blackness *n**
0,25 0,50 0,75 1,00
chromaticness *c**

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 *t**



%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

UE550−7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)
5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart UE55; Colorimetric systems MRS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

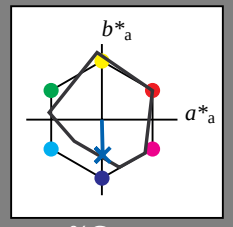
input: *cmy0* setcmykcolor*
output: *no change compared to input*

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 *t**



%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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	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

n = 0,00*
n = 0,25*
n = 0,50*
n = 1,0*

blackness *n**

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

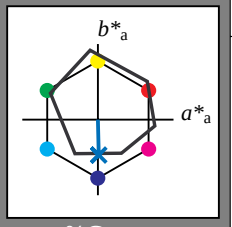
chromaticness *c**

Output: Colorimetric Reflective System ORS18

for hue *h* = lab*h = 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 *t**



%Gamut

u*$_{rel}$ = 93

ORS18; adapted (a) CIELAB data

	L*=L*$_a$	a*$_a$	b*$_a$	C*$_{ab,a}$	h*$_{ab,a}$
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	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
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	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 = 1,0*

blackness *n**

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

chromaticness *c**

UE550−7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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