

Input: Colorimetric Reflective System MRS18a

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

$lab \cdot tch$ and $lab \cdot nch$

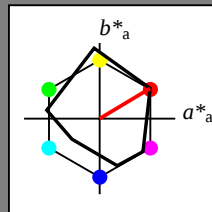
D65: hue R
LCH*Ma: 50 78 31
rgb*Ma: 1.0 0.0 0.0

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

$LAB^*LAB 95.41 -0.97 4.75$

$LAB^*TCha 98.99 0.01 0.0$

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)

$lab^*trj 1.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 0.0 0.0 0.0$

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

$LAB^*LAB 76.06 -0.6 3.44$

$LAB^*TCha 75.0 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.75 0.0 0.0$

$lab^*tch 0.75 0.0 0.0$

$lab^*nch 0.25 0.0 0.0$

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

$LAB^*LAB 56.71 0.23 2.14$

$LAB^*TCha 50.0 0.01 0.0$

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

$LAB^*LAB 37.36 0.13 0.83$

$LAB^*TCha 37.36 0.0 0.0$

relative CIELAB lab*

$lab^*lab 0.25 0.0 0.0$

$lab^*tch 0.25 0.0 0.0$

$lab^*nch 0.75 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

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)

$lab^*trj 0.0 0.0 0.0$

$lab^*tce 1.0 0.0 0.0$

$lab^*nce 1.0 0.0 0.0$

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

$LAB^*LAB 18.02 0.5 -0.46$

$LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$

Input: Colorimetric Reflective System MRS18a

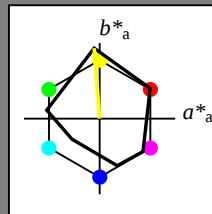
for hue $h^* = lab \cdot h = 94/360 = 0.262$ $lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 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

 $n^* = 0,25$ $n^* = 0,50$ $n^* = 1,0$ chromaticness c^*

TE460-7, 5 step scales for constant CIELAB hue 94/360 = 0.262 (left)

BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System ORS18

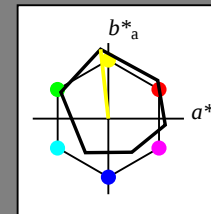
for hue $h^* = lab \cdot h = 96/360 = 0.268$ $lab \cdot tch$ and $lab \cdot nch$

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

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
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

 $n^* = 0,25$ $n^* = 0,50$ chromaticness c^*

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

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Reflective System MRS18a

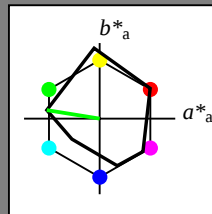
for hue $h^* = \text{lab}^*h = 171/360 = 0.475$ lab^*tch and lab^*nch

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

 $n^* = 0,25$ $n^* = 0,50$ chromaticness c^*

TE460-7, 5 step scales for constant CIELAB hue 171/360 = 0.475 (left)

BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System ORS18

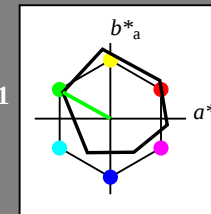
for hue $h^* = \text{lab}^*h = 151/360 = 0.419$ lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness



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

0,50

0,25

0,00

 $n^* = 1,0$

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

input: $\text{olv}^* \text{setrgbcolor}$

output: Startup (S) data dependend

Input: Colorimetric Reflective System MRS18a

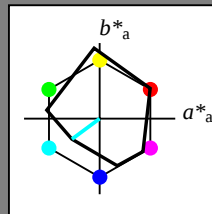
for hue $h^* = \text{lab}^*h = 217/360 = 0.601$ lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 1.0

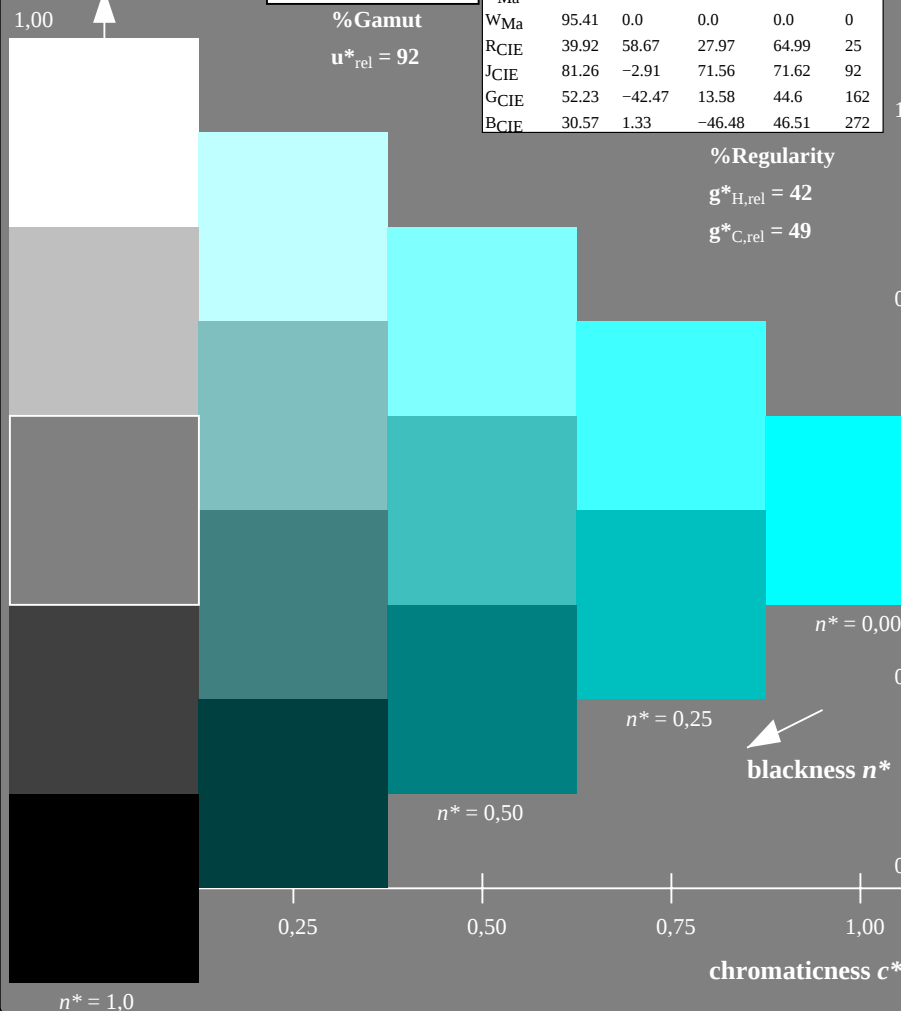
triangle lightness



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

 $g^*_{H,rel} = 42$ $g^*_{C,rel} = 49$ 

TE460-7, 5 step scales for constant CIELAB hue 217/360 = 0.601 (left)

BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System ORS18

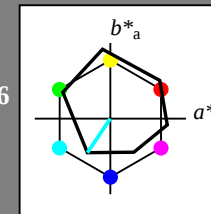
for hue $h^* = \text{lab}^*h = 236/360 = 0.656$ lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

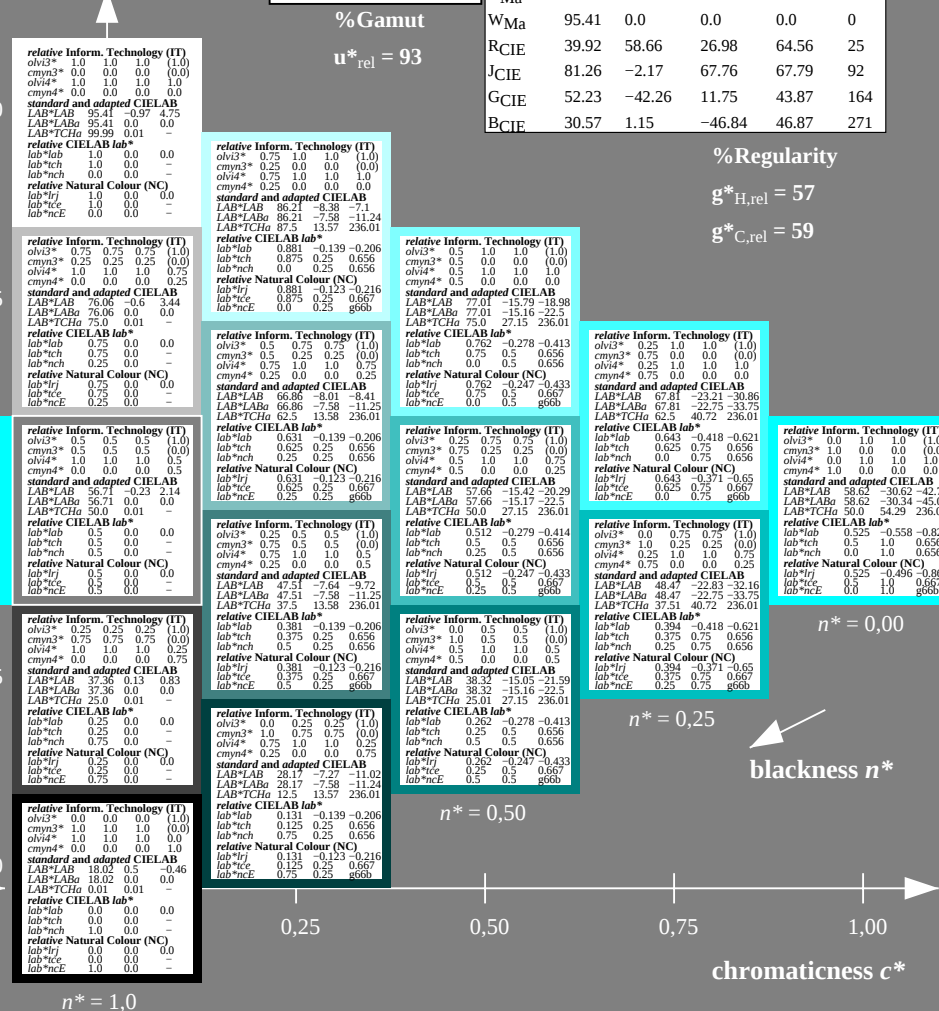
triangle lightness



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
CLMa	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

 $g^*_{H,rel} = 57$ $g^*_{C,rel} = 59$ 

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

input: $\text{olv}^* \text{setrgbcolor}$

output: Startup (S) data dependend

Input: Colorimetric Reflective System MRS18a

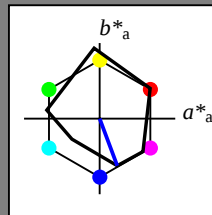
for hue $h^* = \text{lab} \cdot h = 290/360 = 0.807$ $\text{lab} \cdot \text{tch}$ and $\text{lab} \cdot \text{nch}$

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

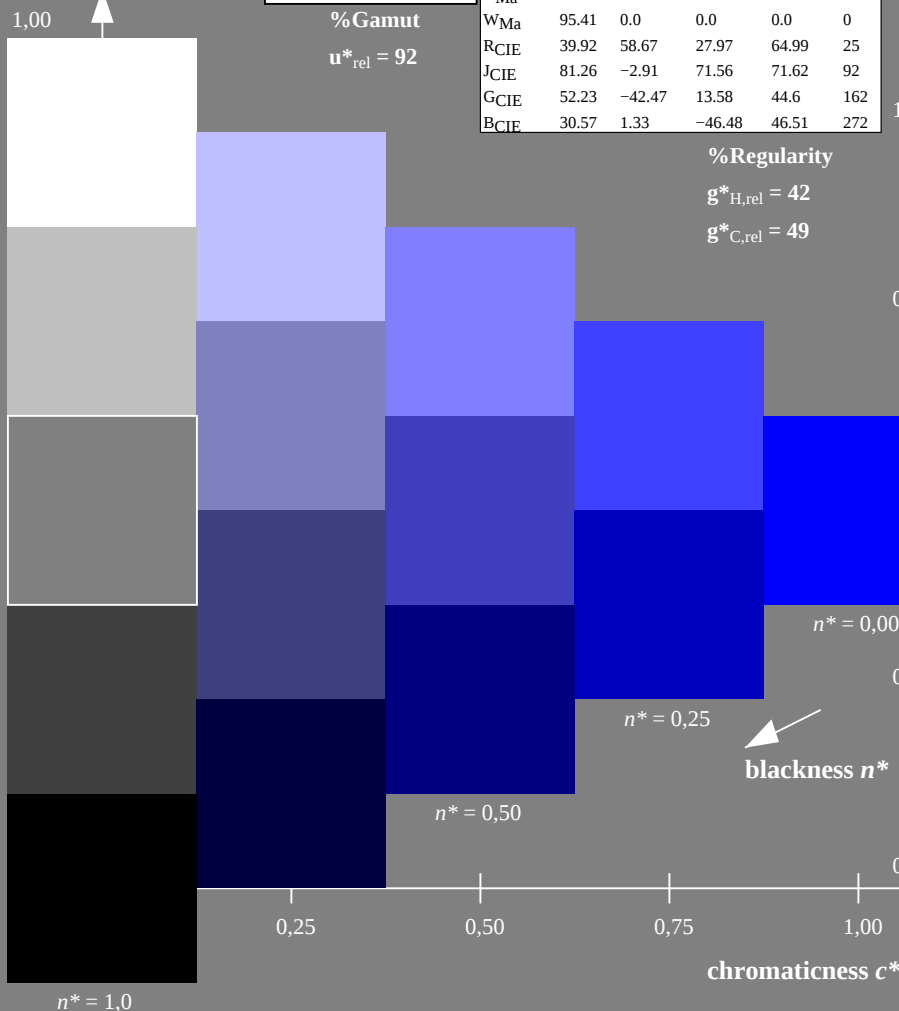
triangle lightness



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
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

 $g^*_{H,rel} = 42$ $g^*_{C,rel} = 49$ 

TE460-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System ORS18

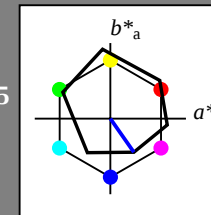
for hue $h^* = \text{lab} \cdot h = 305/360 = 0.847$ $\text{lab} \cdot \text{tch}$ and $\text{lab} \cdot \text{nch}$

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

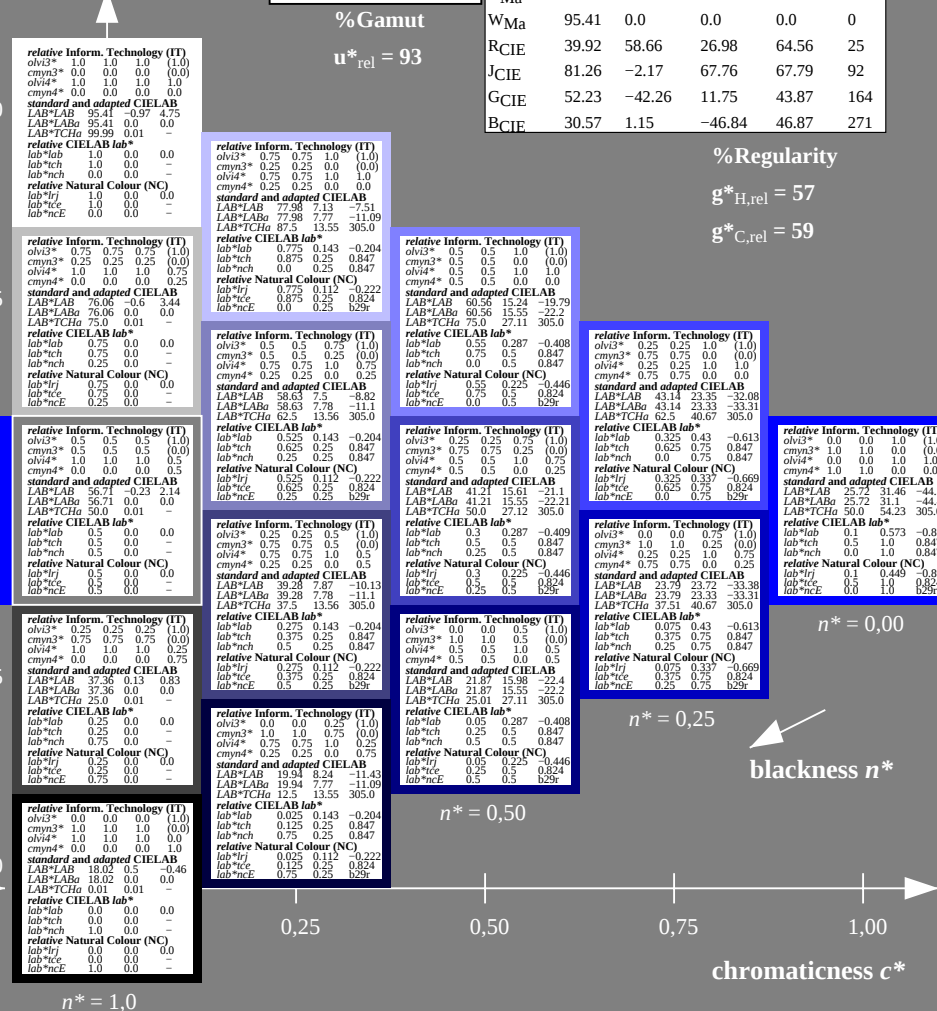
triangle lightness



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
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

 $g^*_{H,rel} = 57$ $g^*_{C,rel} = 59$ 

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

input: $\text{olv} \cdot \text{setrgbcolor}$

output: Startup (S) data dependent

Input: Colorimetric Reflective System MRS18a

for hue $h^* = \text{lab}^*h = 323/360 = 0.896$ lab^*tch and lab^*nch

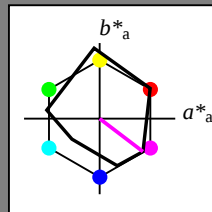
D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00



%Gamut

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

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

 $g^*_{H,\text{rel}} = 42$ $g^*_{C,\text{rel}} = 49$

1,00

0,75

n* = 0,00

0,25

n* = 0,25

n* = 0,50

chromaticness c^*

n* = 1,0

Output: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 354/360 = 0.982$ lab^*tch and lab^*nch

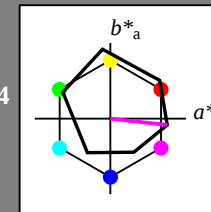
D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

1,00



%Gamut

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

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
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

 $g^*_{H,\text{rel}} = 57$ $g^*_{C,\text{rel}} = 59$

0,75

n* = 0,00

0,25

n* = 0,25

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

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n* = 39,75

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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

n* = 52,00

n* = 52,25

n* = 52,50

n* = 52,75

n* = 53,00

n* = 53,25

n* = 53,50

n* = 53,75

n* = 54,00

n* = 54,25

n* = 54,50

n* = 54,75

n* = 55,00

n* = 55,25

n* = 55,50

n* = 55,75

n* = 56,00

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab \cdot h = 25/360 = 0.071$ $lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness

1,00



%Gamut

 $u^*_{rel} = 92$

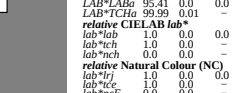
MRS18a; adapted (a) CIELAB data

	$L^* = L^*_a$	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



%Gamut

 $u^*_{rel} = 93$

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab \cdot h = 25/360 = 0.069$ $lab \cdot tch$ and $lab \cdot nch$

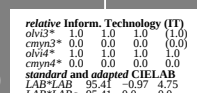
D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness

1,00



%Gamut

 $u^*_{rel} = 93$

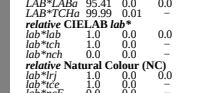
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	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

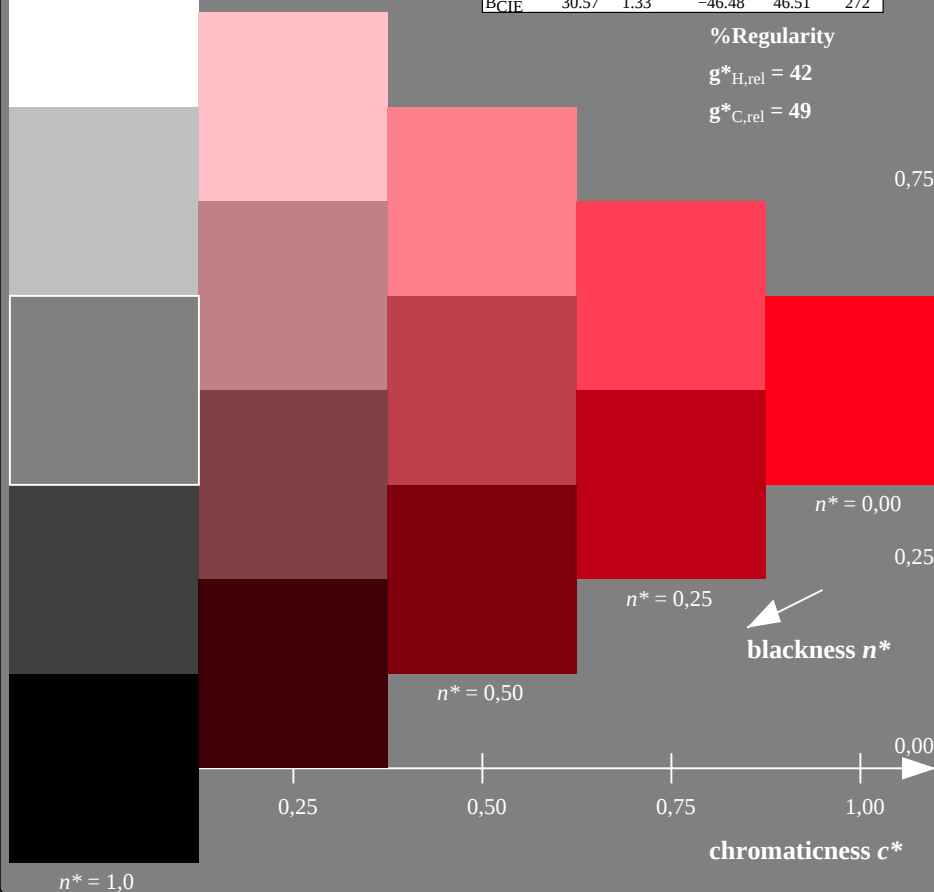
%Regularity

 $g^*_{H,rel} = 57$ $g^*_{C,rel} = 59$

1,00



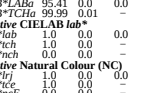
%Gamut

 $u^*_{rel} = 93$ 

TE460-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues



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

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Reflective System MRS18a

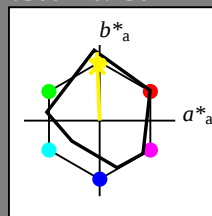
for hue $h^* = lab \cdot h = 92/360 = 0.256$ $lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 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

 $n^* = 0,25$ $n^* = 0,50$ chromaticness c^*

TE460-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)



BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System ORS18

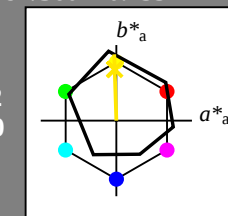
for hue $h^* = lab \cdot h = 92/360 = 0.255$ $lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

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
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

 $n^* = 0,25$ $n^* = 0,50$ chromaticness c^*

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

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Reflective System MRS18a

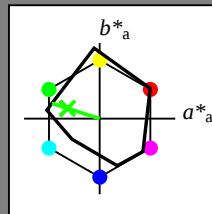
for hue $h^* = lab \cdot h = 162/360 = 0.451$ $lab \cdot tch$ and $lab \cdot nch$

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	$C^*_{ab,a}$	$h^*_{ab,a}$
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

 $n^* = 0,25$ $n^* = 0,50$ chromaticness c^*

1,00

Output: Colorimetric Reflective System ORS18

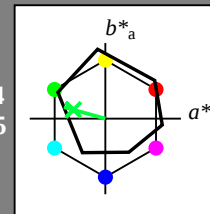
for hue $h^* = lab \cdot h = 164/360 = 0.457$ $lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

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
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

 $n^* = 0,00$

0,25

 $n^* = 0,50$ blackness n^* chromaticness c^*

1,00

TE460-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

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

BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Reflective System MRS18a

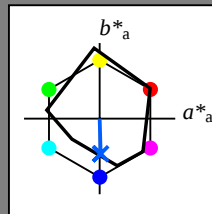
for hue $h^* = lab \cdot h = 272/360 = 0.755$ $lab \cdot tch$ and $lab \cdot nch$

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

blackness n^* chromaticness c^*

TE460-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

BAM-test chart TE46; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System ORS18

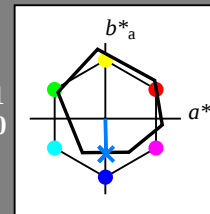
for hue $h^* = lab \cdot h = 271/360 = 0.754$ $lab \cdot tch$ and $lab \cdot nch$

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
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

blackness n^* chromaticness c^*

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

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend