

Input: Colorimetric Reflective System MRS18

for hue $h^* = \text{lab}^*h = 30/360 = 0.083$

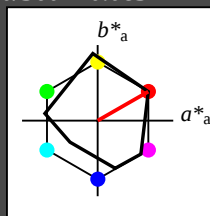
lab^*tch and lab^*nch

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

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

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

Output: Colorimetric Reflective System NCS11

for hue $h^* = \text{lab}^*h = 24/360 = 0.066$

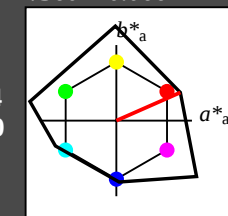
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness

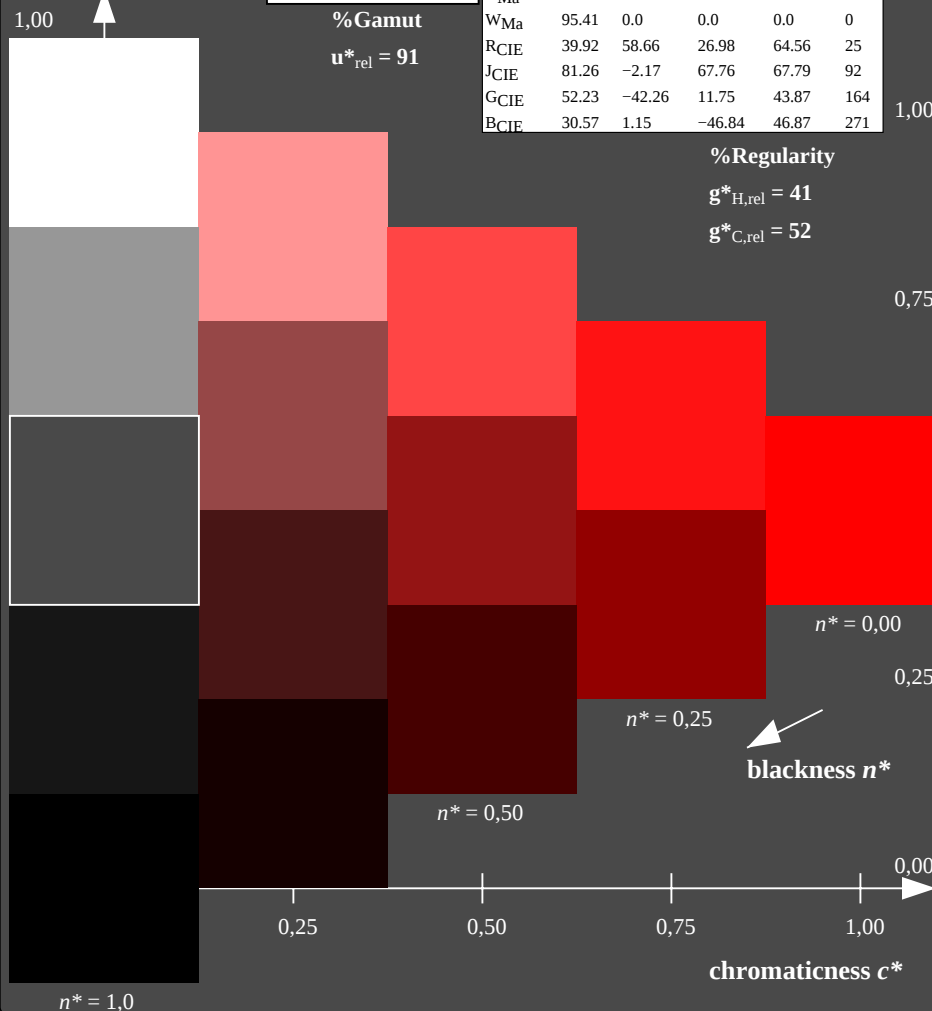


NCS11; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	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

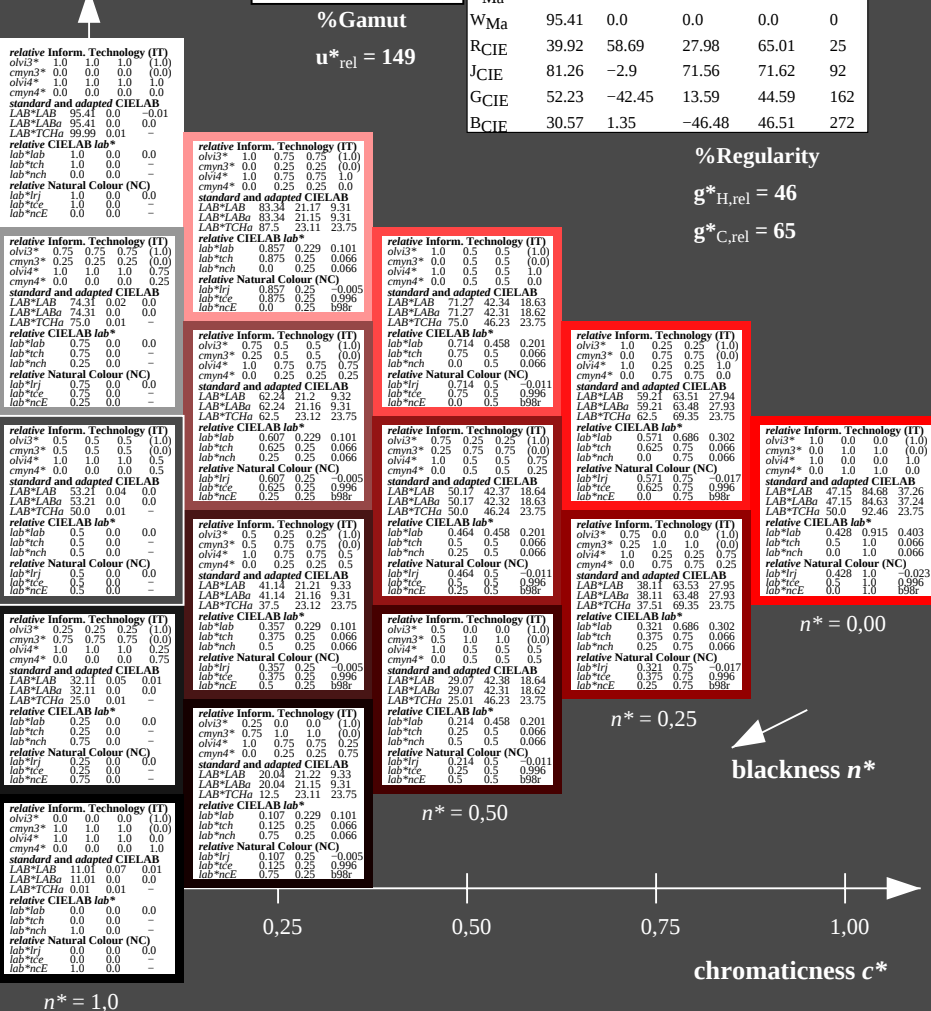
%Regularity

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

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



TE430-7, 5 step scales for constant CIELAB hue 30/360 = 0.083 (left)



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

BAM-test chart TE43; Colorimetric systems MRS18 & NCS11a input: $\text{olv}^* \text{setrgbcolor}$

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

output: $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 94/360 = 0.261$

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

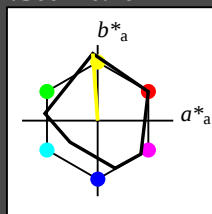
D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 91$

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 NCS11

for hue $h^* = lab \cdot h = 91/360 = 0.252$

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

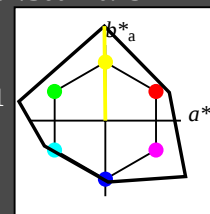
D65: hue J

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	$C^*_{ab,a}$	$h^*_{ab,a}$
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
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272

%Regularity

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

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

TE430-7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)



BAM-test chart TE43; Colorimetric systems MRS18 & NCS11a input: $olv^* \cdot setrgbcolor$
D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

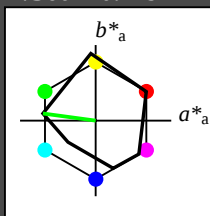
output: $olv^* \cdot setrgbcolor / w^* \cdot setgray$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 172/360 = 0.479$

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

D65: hue G
LCH*Ma: 52 70 172
rgb*Ma: 0.0 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
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

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

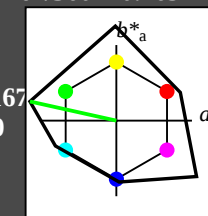
$g^*_{C,rel} = 52$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab \cdot h = 167/360 = 0.465$

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

D65: hue G
LCH*Ma: 63 117 167
rgb*Ma: 0.0 1.0 0.0
triangle lightness

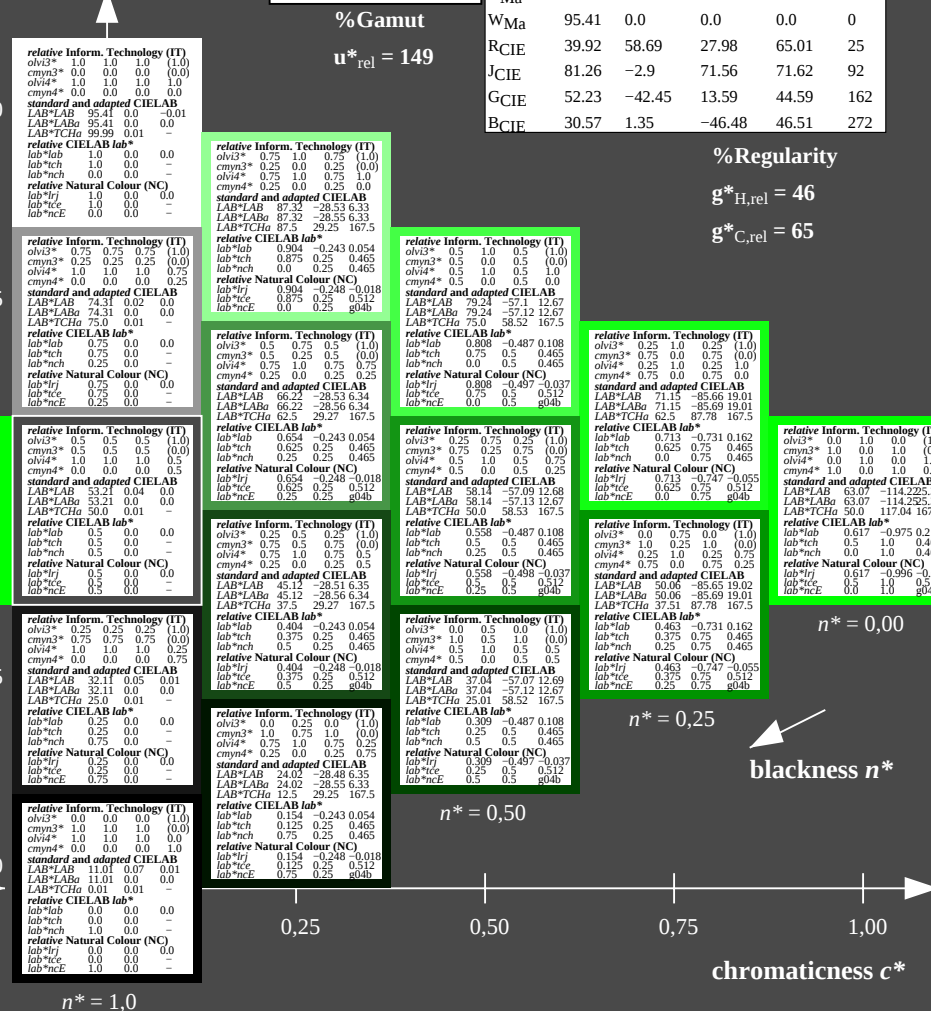
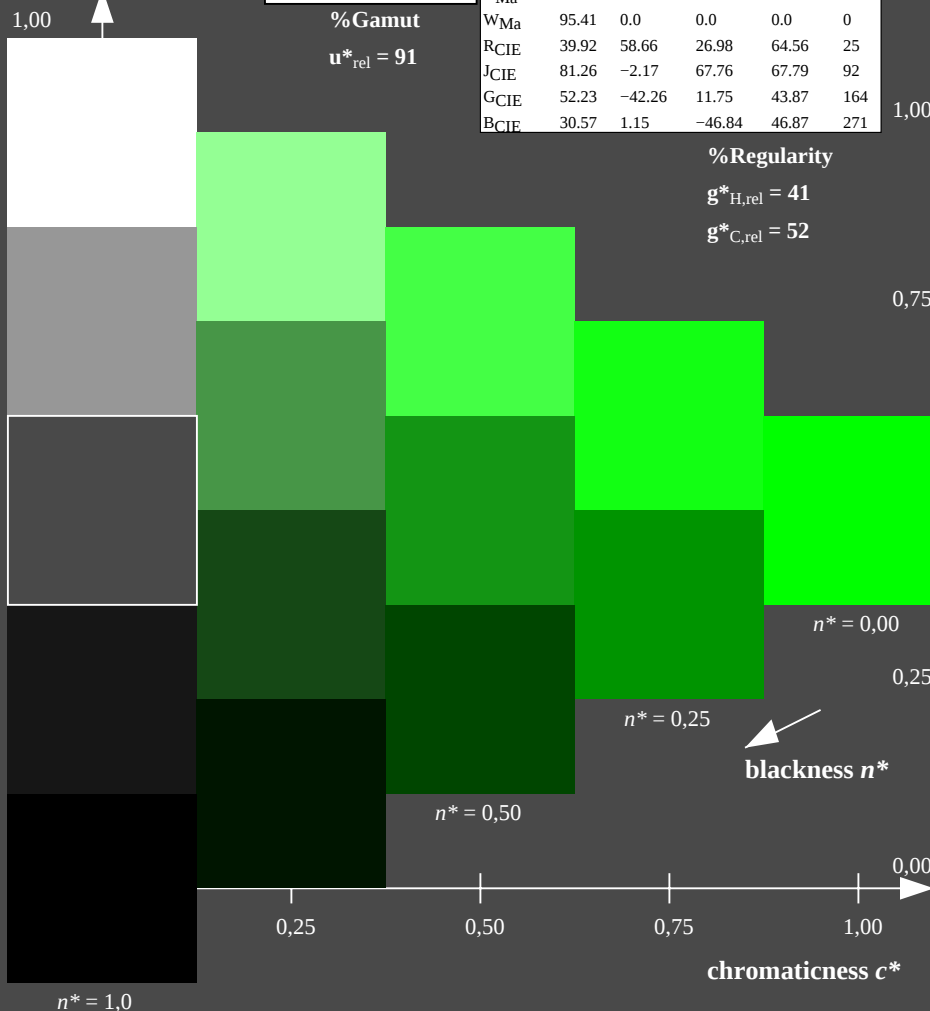


NCS11; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93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

%Regularity

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

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



TE430-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

BAM-test chart TE43; Colorimetric systems MRS18 & NCS11a input: $olv^* \text{ setrgbcolor}$

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

output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

Input: Colorimetric Reflective System MRS18

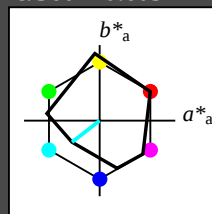
for hue $h^* = lab \cdot h = 218/360 = 0.605$

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

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
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)	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)	(0.0)
olvi7*	0.0	0.0	0.0	(0.0)	(0.0)
olvi8*	0.0	0.0	0.0	(0.0)	(0.0)
olvi9*	0.0	0.0	0.0	(0.0)	(0.0)
olvi10*	0.0	0.0	0.0	(0.0)	(0.0)
olvi11*	0.0	0.0	0.0	(0.0)	(0.0)
olvi12*	0.0	0.0	0.0	(0.0)	(0.0)
olvi13*	0.0	0.0	0.0	(0.0)	(0.0)
olvi14*	0.0	0.0	0.0	(0.0)	(0.0)
olvi15*	0.0	0.0	0.0	(0.0)	(0.0)
olvi16*	0.0	0.0	0.0	(0.0)	(0.0)
olvi17*	0.0	0.0	0.0	(0.0)	(0.0)
olvi18*	0.0	0.0	0.0	(0.0)	(0.0)
olvi19*	0.0	0.0	0.0	(0.0)	(0.0)
olvi20*	0.0	0.0	0.0	(0.0)	(0.0)
olvi21*	0.0	0.0	0.0	(0.0)	(0.0)
olvi22*	0.0	0.0	0.0	(0.0)	(0.0)
olvi23*	0.0	0.0	0.0	(0.0)	(0.0)
olvi24*	0.0	0.0	0.0	(0.0)	(0.0)
olvi25*	0.0	0.0	0.0	(0.0)	(0.0)
olvi26*	0.0	0.0	0.0	(0.0)	(0.0)
olvi27*	0.0	0.0	0.0	(0.0)	(0.0)
olvi28*	0.0	0.0	0.0	(0.0)	(0.0)
olvi29*	0.0	0.0	0.0	(0.0)	(0.0)
olvi30*	0.0	0.0	0.0	(0.0)	(0.0)
olvi31*	0.0	0.0	0.0	(0.0)	(0.0)
olvi32*	0.0	0.0	0.0	(0.0)	(0.0)
olvi33*	0.0	0.0	0.0	(0.0)	(0.0)
olvi34*	0.0	0.0	0.0	(0.0)	(0.0)
olvi35*	0.0	0.0	0.0	(0.0)	(0.0)
olvi36*	0.0	0.0	0.0	(0.0)	(0.0)
olvi37*	0.0	0.0	0.0	(0.0)	(0.0)
olvi38*	0.0	0.0	0.0	(0.0)	(0.0)
olvi39*	0.0	0.0	0.0	(0.0)	(0.0)
olvi40*	0.0	0.0	0.0	(0.0)	(0.0)
olvi41*	0.0	0.0	0.0	(0.0)	(0.0)
olvi42*	0.0	0.0	0.0	(0.0)	(0.0)
olvi43*	0.0	0.0	0.0	(0.0)	(0.0)
olvi44*	0.0	0.0	0.0	(0.0)	(0.0)
olvi45*	0.0	0.0	0.0	(0.0)	(0.0)
olvi46*	0.0	0.0	0.0	(0.0)	(0.0)
olvi47*	0.0	0.0	0.0	(0.0)	(0.0)
olvi48*	0.0	0.0	0.0	(0.0)	(0.0)
olvi49*	0.0	0.0	0.0	(0.0)	(0.0)
olvi50*	0.0	0.0	0.0	(0.0)	(0.0)
olvi51*	0.0	0.0	0.0	(0.0)	(0.0)
olvi52*	0.0	0.0	0.0	(0.0)	(0.0)
olvi53*	0.0	0.0	0.0	(0.0)	(0.0)
olvi54*	0.0	0.0	0.0	(0.0)	(0.0)
olvi55*	0.0	0.0	0.0	(0.0)	(0.0)
olvi56*	0.0	0.0	0.0	(0.0)	(0.0)
olvi57*	0.0	0.0	0.0	(0.0)	(0.0)
olvi58*	0.0	0.0	0.0	(0.0)	(0.0)
olvi59*	0.0	0.0	0.0	(0.0)	(0.0)
olvi60*	0.0	0.0	0.0	(0.0)	(0.0)
olvi61*	0.0	0.0	0.0	(0.0)	(0.0)
olvi62*	0.0	0.0	0.0	(0.0)	(0.0)
olvi63*	0.0	0.0	0.0	(0.0)	(0.0)
olvi64*	0.0	0.0	0.0	(0.0)	(0.0)
olvi65*	0.0	0.0	0.0	(0.0)	(0.0)
olvi66*	0.0	0.0	0.0	(0.0)	(0.0)
olvi67*	0.0	0.0	0.0	(0.0)	(0.0)
olvi68*	0.0	0.0	0.0	(0.0)	(0.0)
olvi69*	0.0	0.0	0.0	(0.0)	(0.0)
olvi70*	0.0	0.0	0.0	(0.0)	(0.0)
olvi71*	0.0	0.0	0.0	(0.0)	(0.0)
olvi72*	0.0	0.0	0.0	(0.0)	(0.0)
olvi73*	0.0	0.0	0.0	(0.0)	(0.0)
olvi74*	0.0	0.0	0.0	(0.0)	(0.0)
olvi75*	0.0	0.0	0.0	(0.0)	(0.0)
olvi76*	0.0	0.0	0.0	(0.0)	(0.0)
olvi77*	0.0	0.0	0.0	(0.0)	(0.0)
olvi78*	0.0	0.0	0.0	(0.0)	(0.0)
olvi79*	0.0	0.0	0.0	(0.0)	(0.0)
olvi80*	0.0	0.0	0.0	(0.0)	(0.0)
olvi81*	0.0	0.0	0.0	(0.0)	(0.0)
olvi82*	0.0	0.0	0.0	(0.0)	(0.0)
olvi83*	0.0	0.0	0.0	(0.0)	(0.0)
olvi84*	0.0	0.0	0.0	(0.0)	(0.0)
olvi85*	0.0	0.0	0.0	(0.0)	(0.0)
olvi86*	0.0	0.0	0.0	(0.0)	(0.0)
olvi87*	0.0	0.0	0.0	(0.0)	(0.0)
olvi88*	0.0	0.0	0.0	(0.0)	(0.0)
olvi89*	0.0	0.0	0.0	(0.0)	(0.0)
olvi90*	0.0	0.0	0.0	(0.0)	(0.0)
olvi91*	0.0	0.0	0.0	(0.0)	(0.0)
olvi92*	0.0	0.0	0.0	(0.0)	(0.0)
olvi93*	0.0	0.0	0.0	(0.0)	(0.0)
olvi94*	0.0	0.0	0.0	(0.0)	(0.0)
olvi95*	0.0	0.0	0.0	(0.0)	(0.0)
olvi96*	0.0	0.0	0.0	(0.0)	(0.0)
olvi97*	0.0	0.0	0.0	(0.0)	(0.0)
olvi98*	0.0	0.0	0.0	(0.0)	(0.0)
olvi99*	0.0	0.0	0.0	(0.0)	(0.0)
olvi100*	0.0	0.0	0.0	(0.0)	(0.0)

Output: Colorimetric Reflective System NCS11

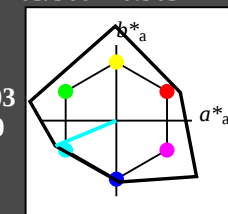
for hue $h^* = lab \cdot h = 203/360 = 0.563$

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

D65: hue G50B
LCH*Ma: 59 87 203
rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 149$

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
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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*	0.75	0.75	0.75	(0.75)	(0.75)
olvi4*	0.25	0.25	0.25	(0.25)	(0.25)
olvi5*	1.0	1.0	1.0	(1.0)	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)	(0.0)
olvi7*	0.0	0.0	0.0	(0.0)	(0.0)
olvi8*	0.0	0.0	0.0	(0.0)	(0.0)
olvi9*	0.0	0.0	0.0	(0.0)	(0.0)
olvi10*	0.0	0.0	0.0	(0.0)	(0.0)
olvi11*	0.0	0.0	0.0	(0.0)	(0.0)
olvi12*	0.0	0.0	0.0	(0.0)	(0.0)
olvi13*	0.0	0.0	0.0	(0.0)	(0.0)
olvi14*	0.0	0.0	0.0	(0.0)	(0.0)
olvi15*	0.0	0.0	0.0	(0.0)	(0.0)
olvi16*	0.0	0.0	0.0	(0.0)	(0.0)
olvi17*	0.0	0.0	0.0	(0.0)	(0.0)
olvi18*	0.0	0.0	0.0	(0.0)	(0.0)
olvi19*	0.0	0.0	0.0	(0.0)	(0.0)
olvi20*	0.0	0.0	0.0	(0.0)	(0.0)
olvi21*	0.0	0.0	0.0	(0.0)	(0.0)
olvi22*	0.0	0.0	0.0	(0.0)	(0.0)
olvi23*	0.0	0.0	0.0	(0.0)	(0.0)
olvi24*	0.0	0.0	0.0	(0.0)	(0.0)
olvi25*	0.0	0.0	0.0	(0.0)	(0.0)
olvi26*	0.0	0.0	0.0	(0.0)	(0.0)
olvi27*	0.0	0.0	0.0	(0.0)	(0.0)
olvi28*	0.0	0.0	0.0	(0.0)	(0.0)
olvi29*	0.0	0.0	0.0	(0.0)	(0.0)
olvi30*	0.0	0.0	0.0	(0.0)	(0.0)
olvi31*	0.0	0.0	0.0	(0.0)	(0.0)
olvi32*	0.0	0.0	0.0	(0.0)	(0.0)
olvi33*	0.0	0.0	0.0	(0.0)	(0.0)
olvi34*	0.0	0.0	0.0	(0.0)	(0.0)
olvi35*	0.0	0.0	0.0	(0.0)	(0.0)
olvi36*	0.0	0.0	0.0	(0.0)	(0.0)
olvi37*	0.0	0.0	0.0	(0.0)	(0.0)
olvi38*	0.0	0.0	0.0	(0.0)	(0.0)
olvi39*	0.0	0.0	0.0	(0.0)	(0.0)
olvi40*	0.0	0.0	0.0	(0.0)	(0.0)
olvi41*	0.0	0.0	0.0	(0.0)	(0.0)
olvi42*	0.0	0.0	0.0	(0.0)	(0.0)
olvi43*	0.0	0.0	0.0	(0.0)	(0.0)
olvi44*	0.0	0.0	0.0	(0.0)	(0.0)
olvi45*	0.0	0.0	0.0	(0.0)	(0.0)
olvi46*	0.0	0.0	0.0	(0.0)	(0.0)
olvi47*	0.0	0.0	0.0	(0.0)	(0.0)
olvi48*	0.0	0.0	0.0	(0.0)	(0.0)
olvi49*	0.0	0.0	0.0	(0.0)	(0.0)
olvi50*	0.0	0.0	0.0	(0.0)	(0.0)
olvi51*	0.0	0.0	0.0	(0.0)	(0.0)
olvi52*	0.0	0.0	0.0	(0.0)	(0.0)
olvi53*	0.0	0.0	0.0	(0.0)	(0.0)
olvi54*	0.0	0.0	0.0	(0.0)	(0.0)
olvi55*	0.0	0.0	0.0	(0.0)	(0.0)
olvi56*	0.0	0.0	0.0	(0.0)	(0.0)
olvi57*	0.0	0.0	0.0	(0.0)	(0.0)
olvi58*	0.0	0.0	0.0	(0.0)	(0.0)
olvi59*	0.0	0.0	0.0	(0.0)	(0.0)
olvi60*	0.0	0.0	0.0	(0.0)	(0.0)
olvi61*	0.0	0.0	0.0	(0.0)	(0.0)
olvi62*	0.0	0.0	0.0	(0.0)	(0.0)
olvi63*	0.0	0.0	0.0	(0.0)	(0.0)
olvi64*	0.0	0.0	0.0	(0.0)	(0.0)
olvi65*	0.0	0.0	0.0	(0.0)	(0.0)
olvi66*	0.0	0.0	0.0	(0.0)	(0.0)
olvi67*	0.0	0.0	0.0	(0.0)	(0.0)
olvi68*	0.0	0.0	0.0	(0.0)	(0.0)
olvi69*	0.0	0.0	0.0	(0.0)	(0.0)
olvi70*	0.0	0.0	0.0	(0.0)	(0.0)
olvi71*	0.0	0.0	0.0	(0.0)	(0.0)
olvi72*	0.0	0.0	0.0	(0.0)	(0.0)
olvi73*	0.0	0.0	0.0	(0.0)	(0.0)
olvi74*	0.0	0.0	0.0	(0.0)	(0.0)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 290/360 = 0.806$

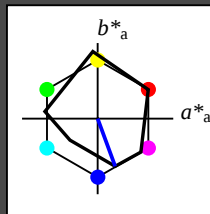
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

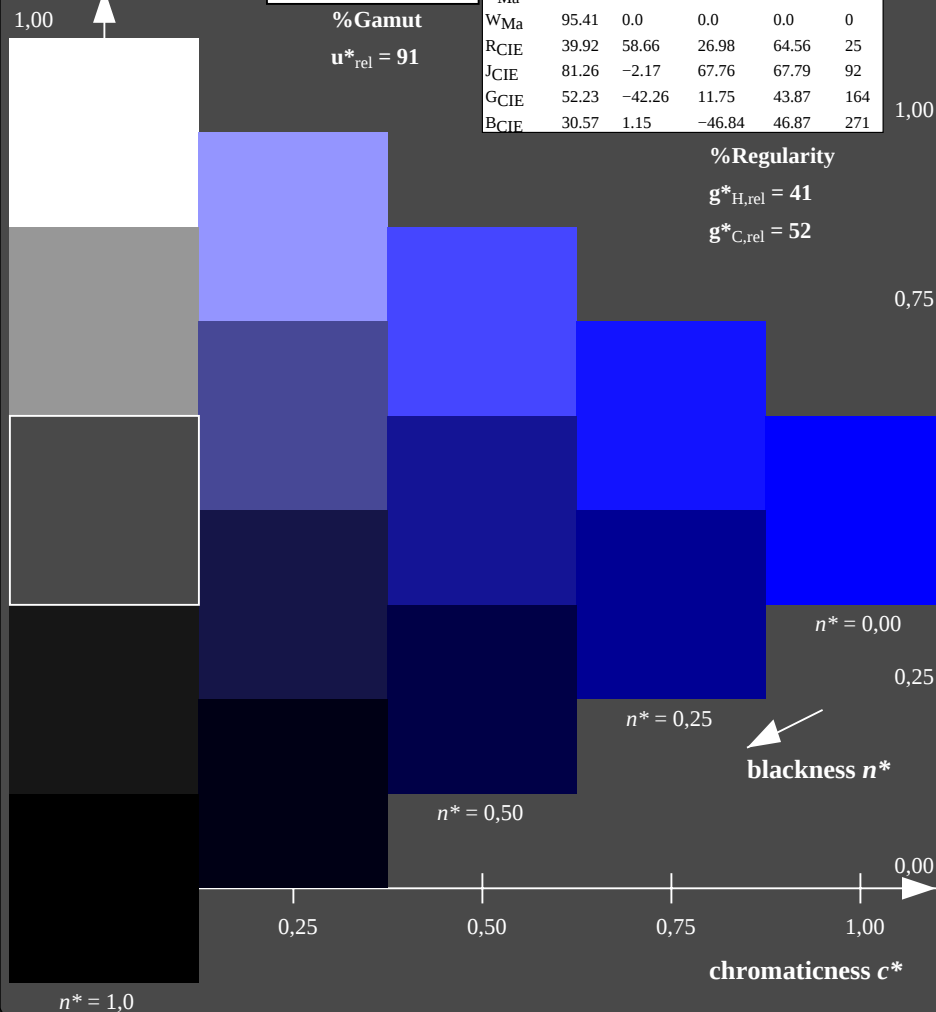


MRS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	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

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

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



TE430-7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)



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

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab \cdot h = 273/360 = 0.757$

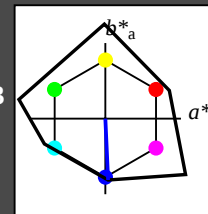
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness

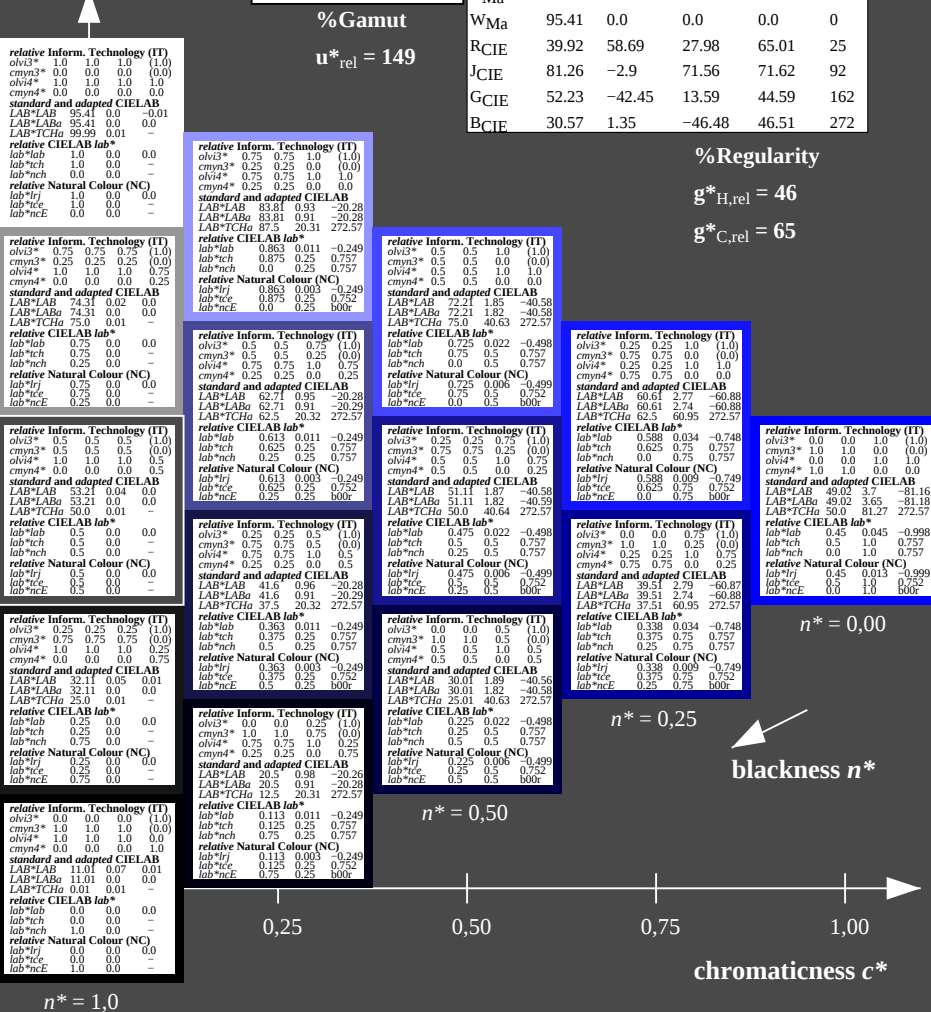


NCS11; adapted (a) CIELAB data					
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32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

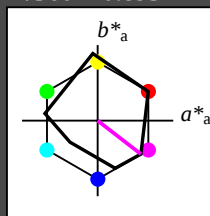
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 322/360 = 0.895$

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

D65: hue B50R
LCH*Ma: 35 72 322
rgb*Ma: 1.0 0.0 1.0
triangle lightness

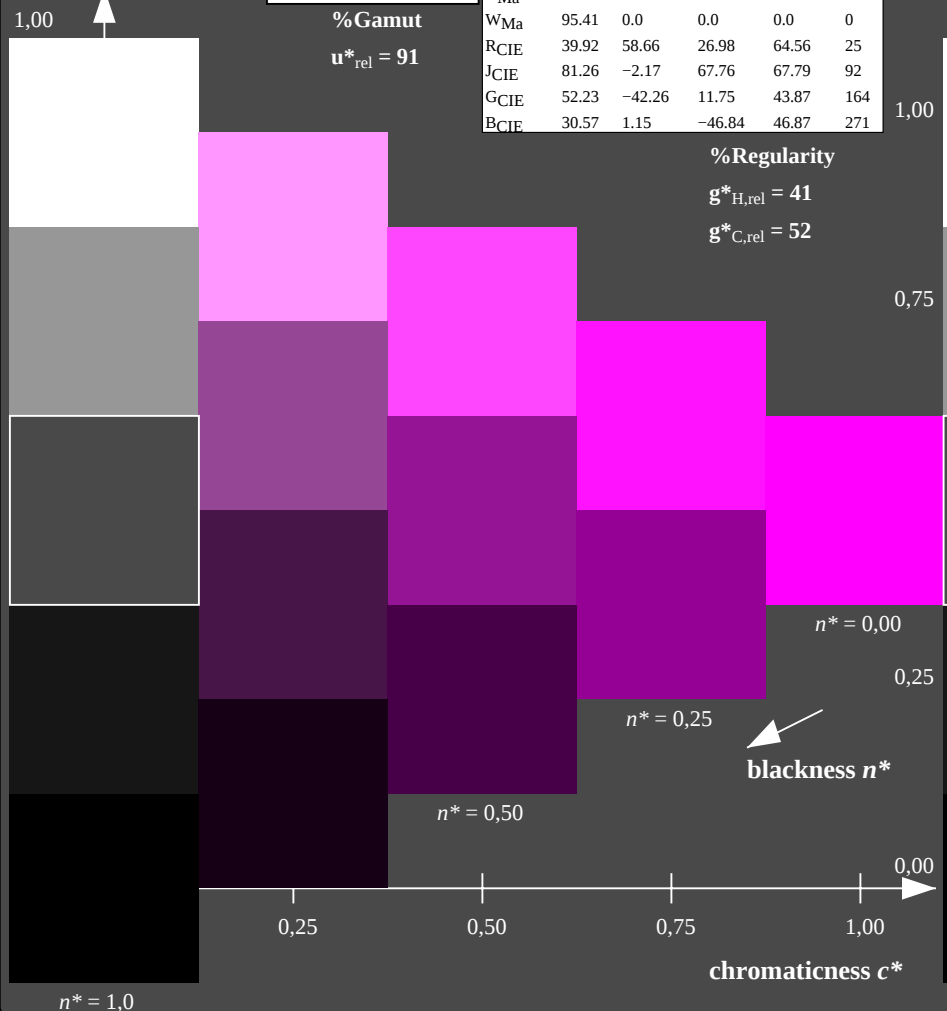


MRS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	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

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

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



TE430-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)



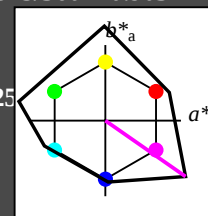
D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab \cdot h = 325/360 = 0.903$

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

D65: hue B50R
LCH*Ma: 44 129 325
rgb*Ma: 1.0 0.0 1.0
triangle lightness

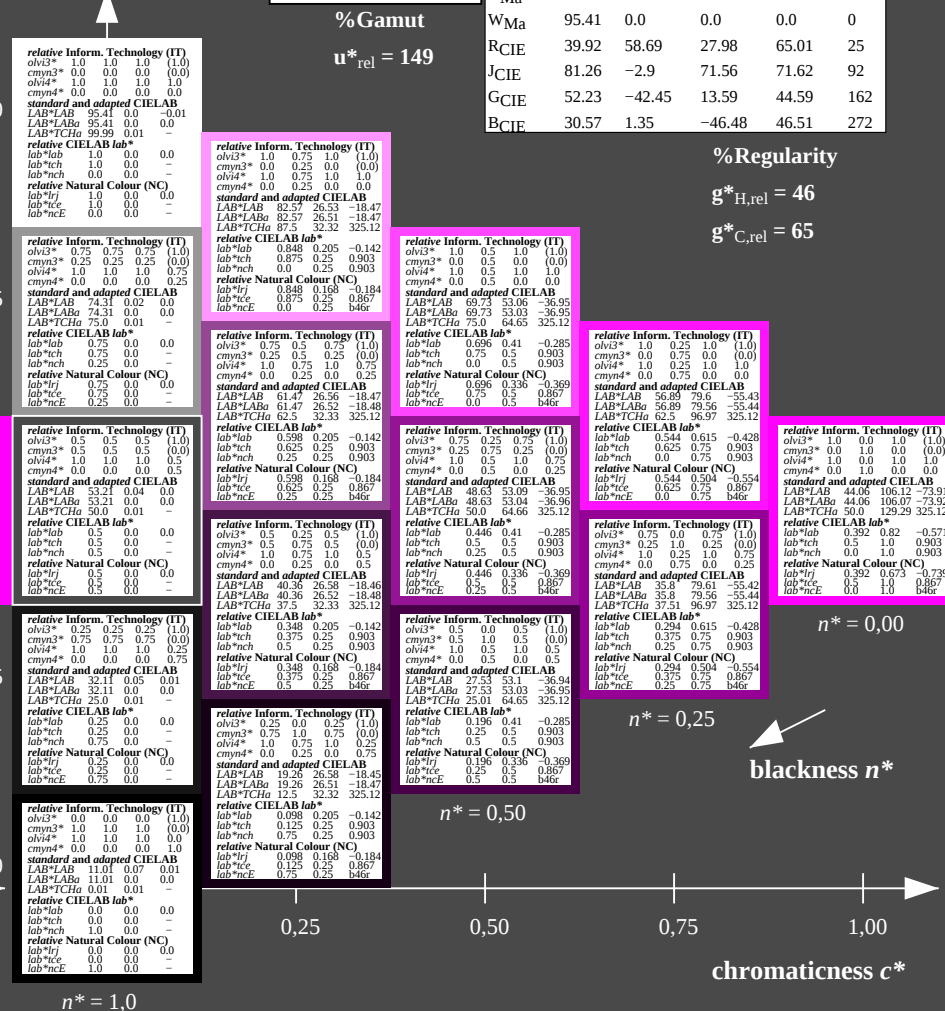


NCS11; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	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 325/360 = 0.903 (right)

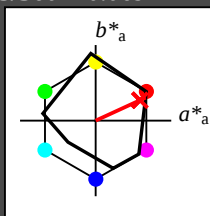
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

Input: Colorimetric Reflective System MRS18

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

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

D65: hue R
LCH*Ma: 48 73 25
rgb*Ma: 1.0 0.0 0.1
triangle lightness



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

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

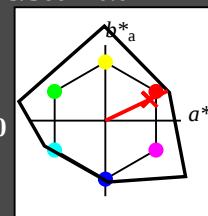
$g^*_{C,rel} = 52$

Output: Colorimetric Reflective System NCS11

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

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

D65: hue R
LCH*Ma: 48 91 25
rgb*Ma: 1.0 0.02 0.0
triangle lightness

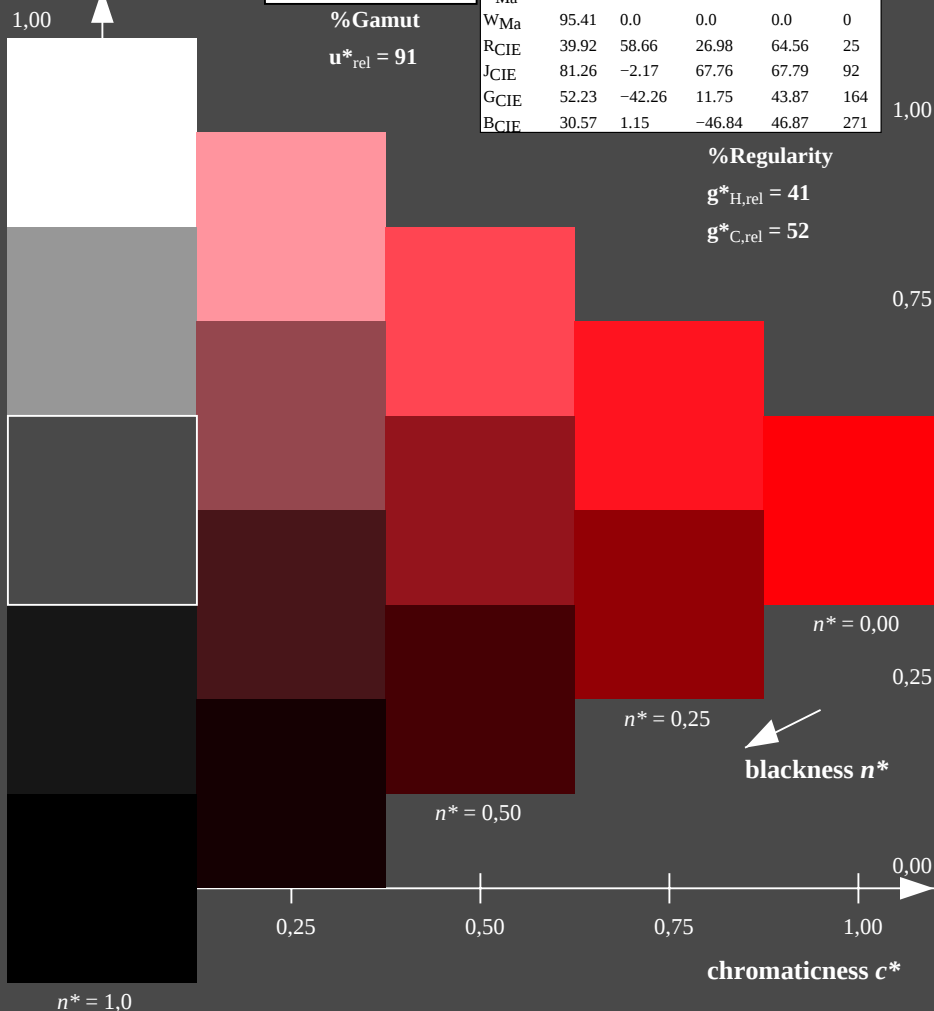


NCS11; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93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

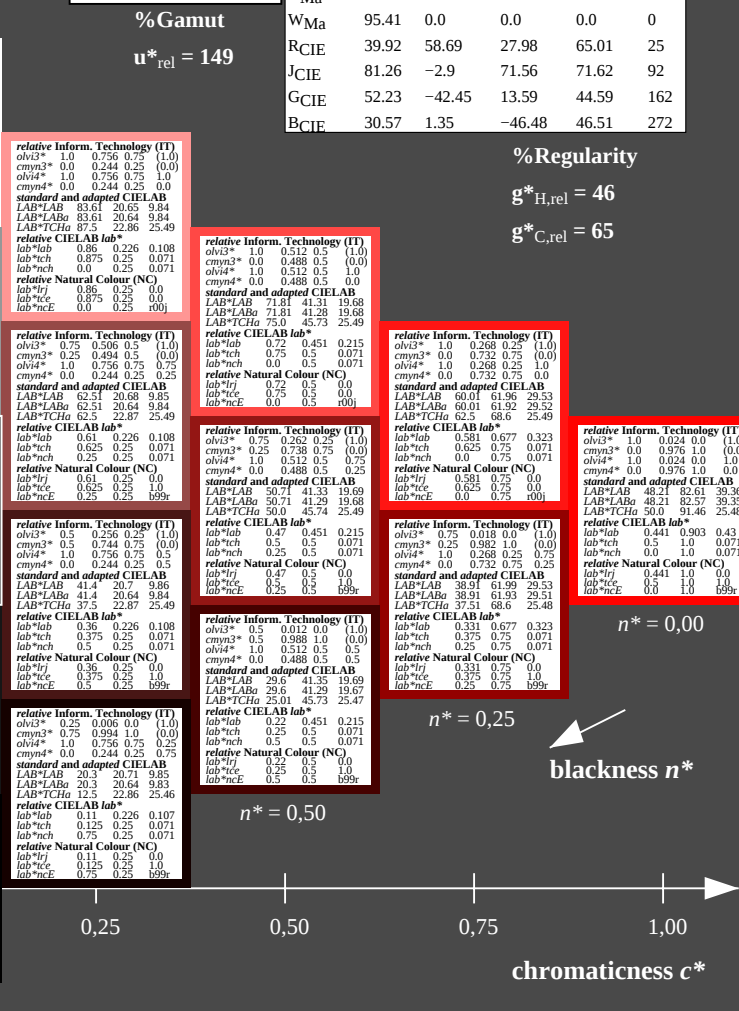
%Regularity

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

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



TE430-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)



5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart TE43; Colorimetric systems MRS18 & NCS11a input: $olv^* \cdot setrgbcolor$

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

output: $olv^* \cdot setrgbcolor / w^* \cdot setgray$

Input: Colorimetric Reflective System MRS18

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

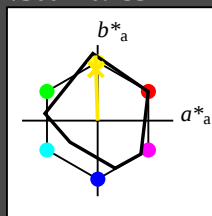
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness

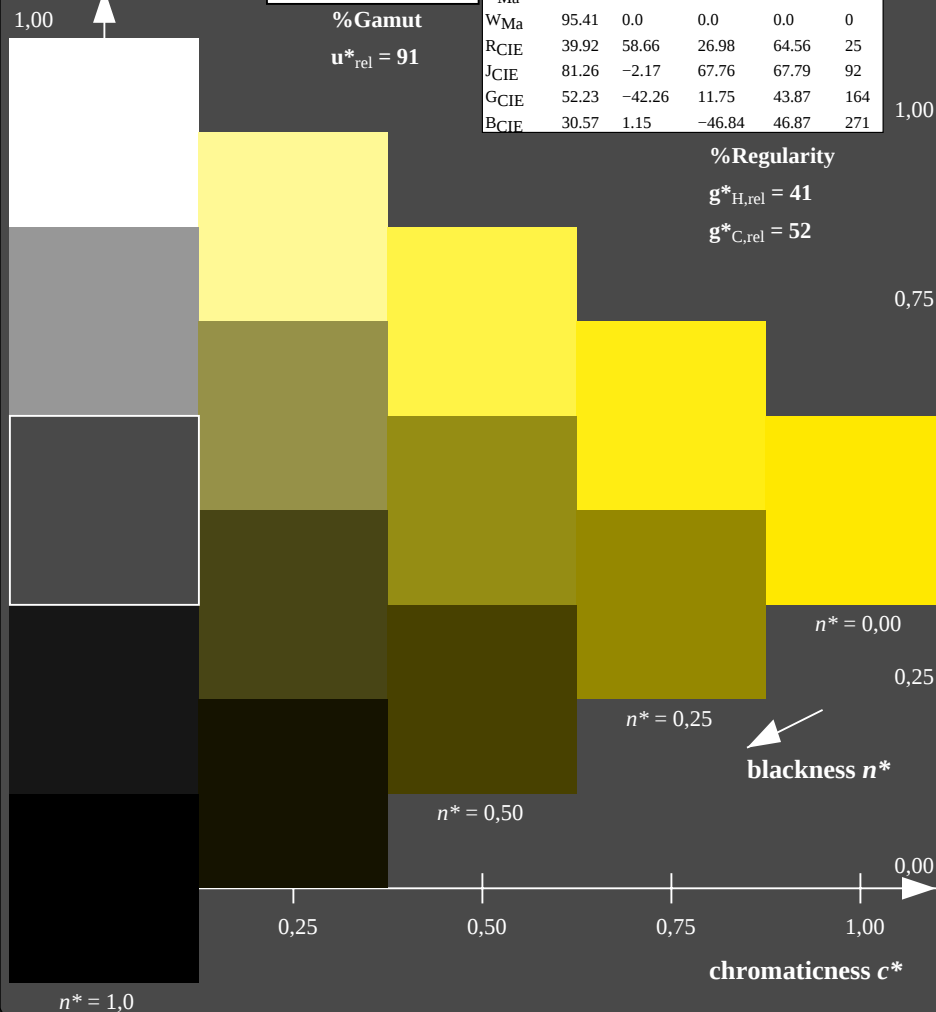


MRS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	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

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

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



TE430-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

Output: Colorimetric Reflective System NCS11

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

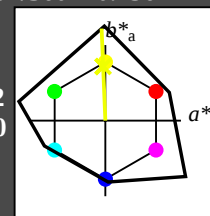
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness

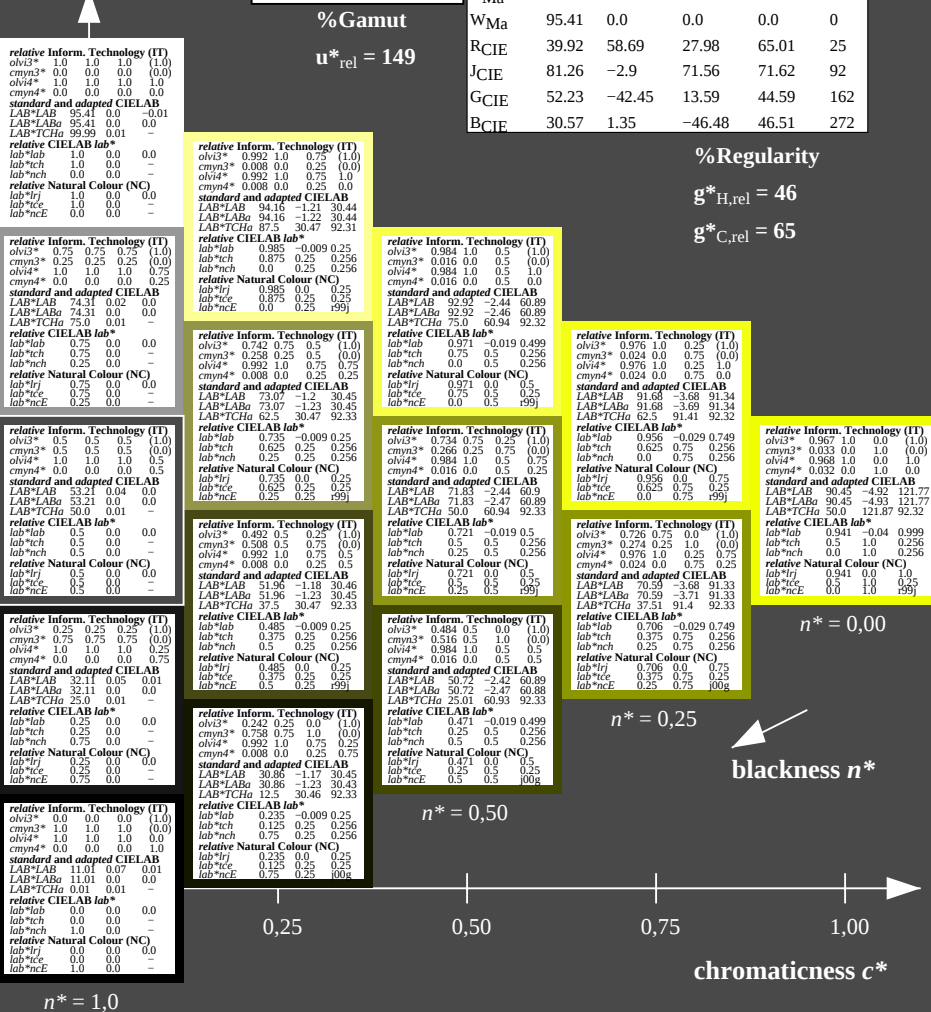


NCS11; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	47.15	84.64	37.25	92.48	24
J _{Ma}	91.37	-1.27	125.03	125.03	91
G _{Ma}	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	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

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

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



5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

BAM-test chart TE43; Colorimetric systems MRS18 & NCS11a input: $olv^* \cdot setrgbcolor$

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

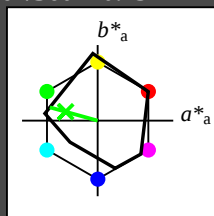
output: $olv^* \cdot setrgbcolor / w^* \cdot setgray$

Input: Colorimetric Reflective System MRS18

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

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

D65: hue G
LCH*Ma: 56 66 164
rgb*Ma: 0.1 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

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

TE430-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)



BAM-test chart TE43; Colorimetric systems MRS18 & NCS11a input: $olv^* \cdot setrgbcolor$

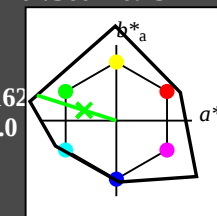
D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System NCS11

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

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

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

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

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

1,00

0,75

$n^* = 0,00$

0,25

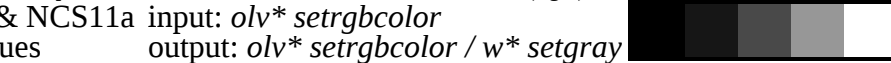
$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)



output: $olv^* \cdot setrgbcolor / w^* \cdot setgray$

Input: Colorimetric Reflective System MRS18

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

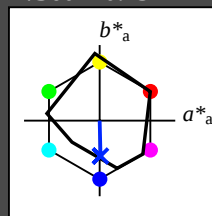
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

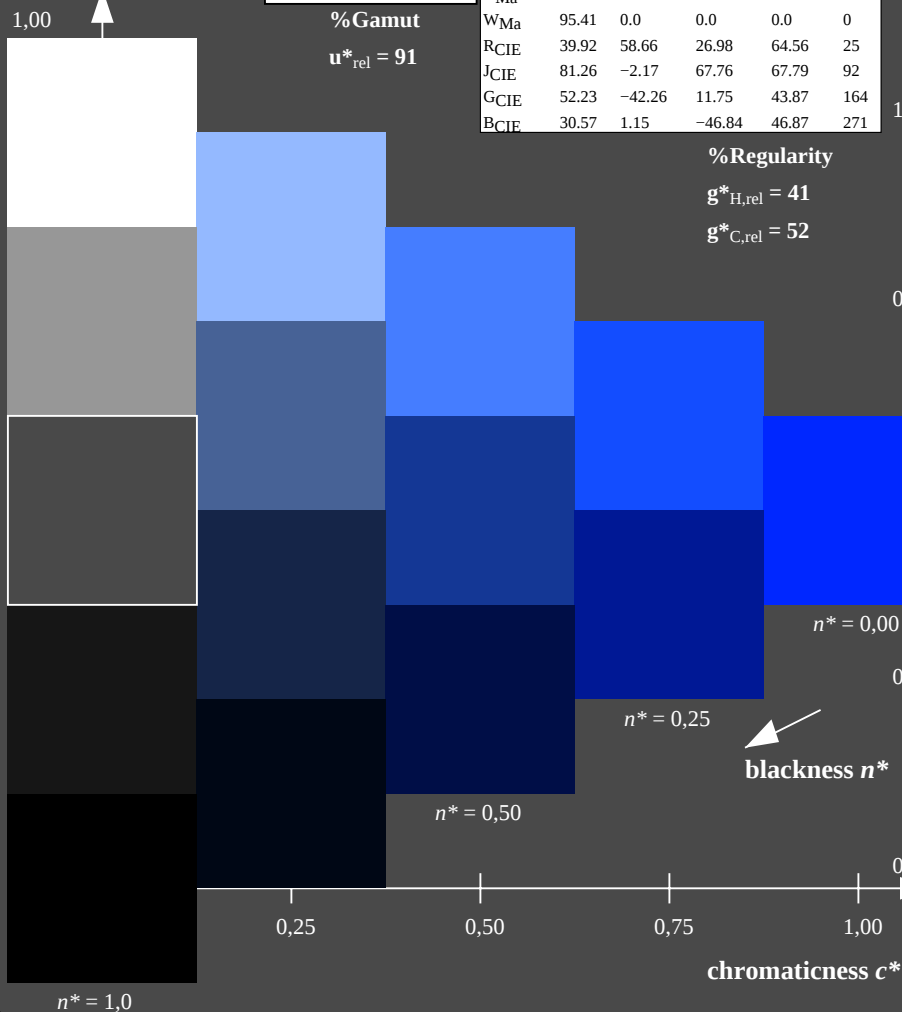


MRS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{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

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

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



TE430-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)



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

Output: Colorimetric Reflective System NCS11

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

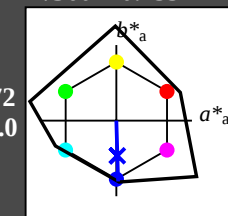
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness

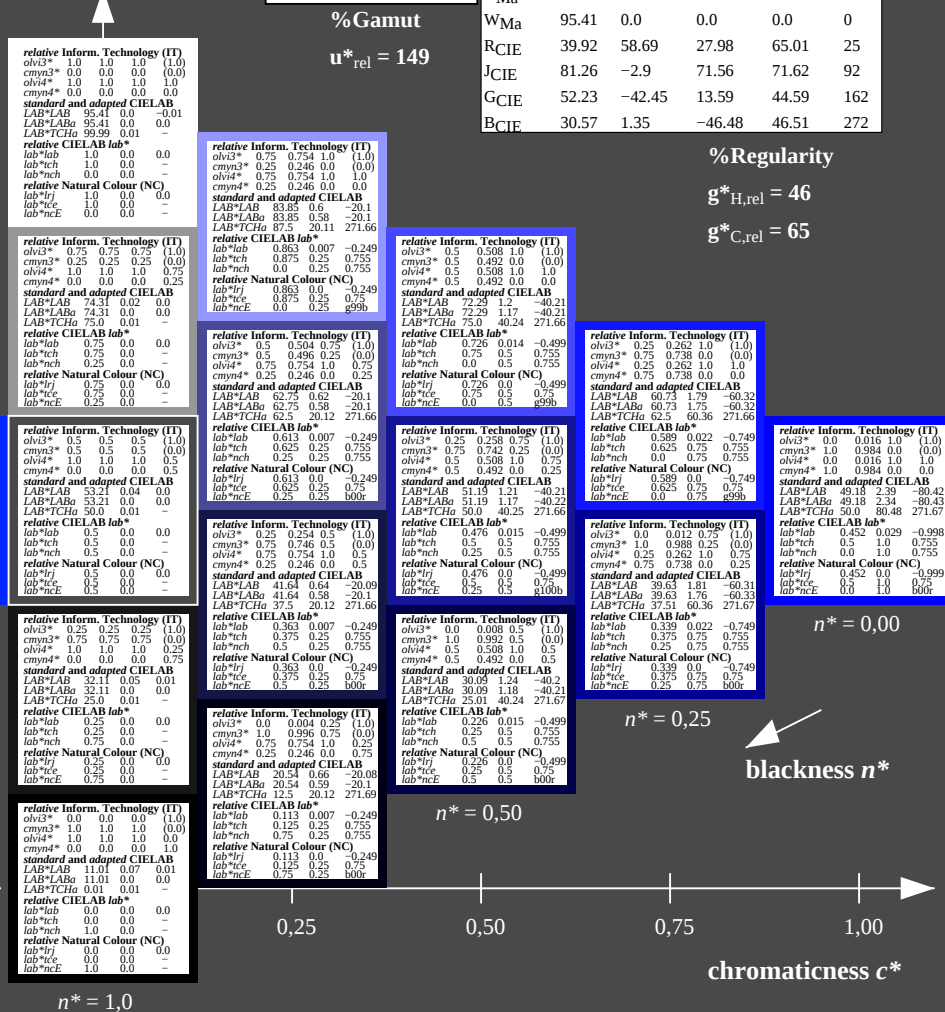


NCS11; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	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)

output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$