

Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.097$

data for any colour:

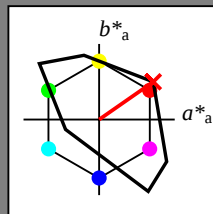
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = o00y$ $u^* = r14j$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 53 72 50

$LAB^*LCH^*_{Ma}$: 53 87 34

$lab^*olv^*_{Ma}$: 1.0 0.0 0.0

$lab^*rgb^*_{Ma}$: 1.0 0.14 0.0

triangle lightness t^*

% Gamut

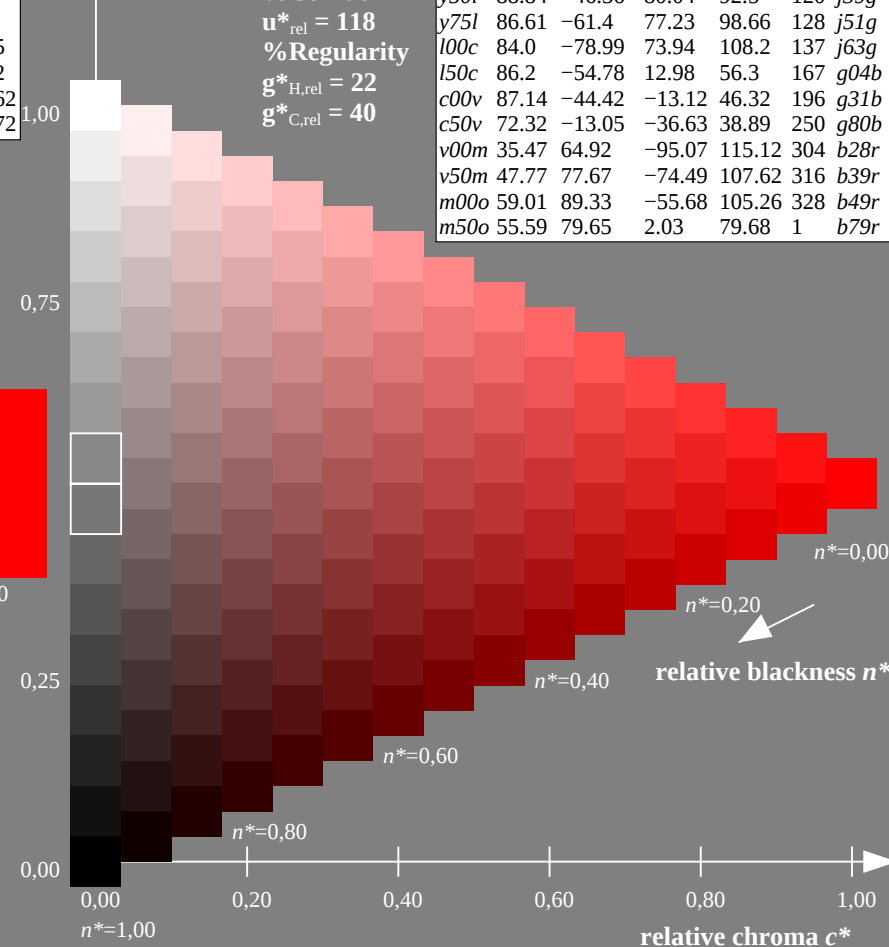
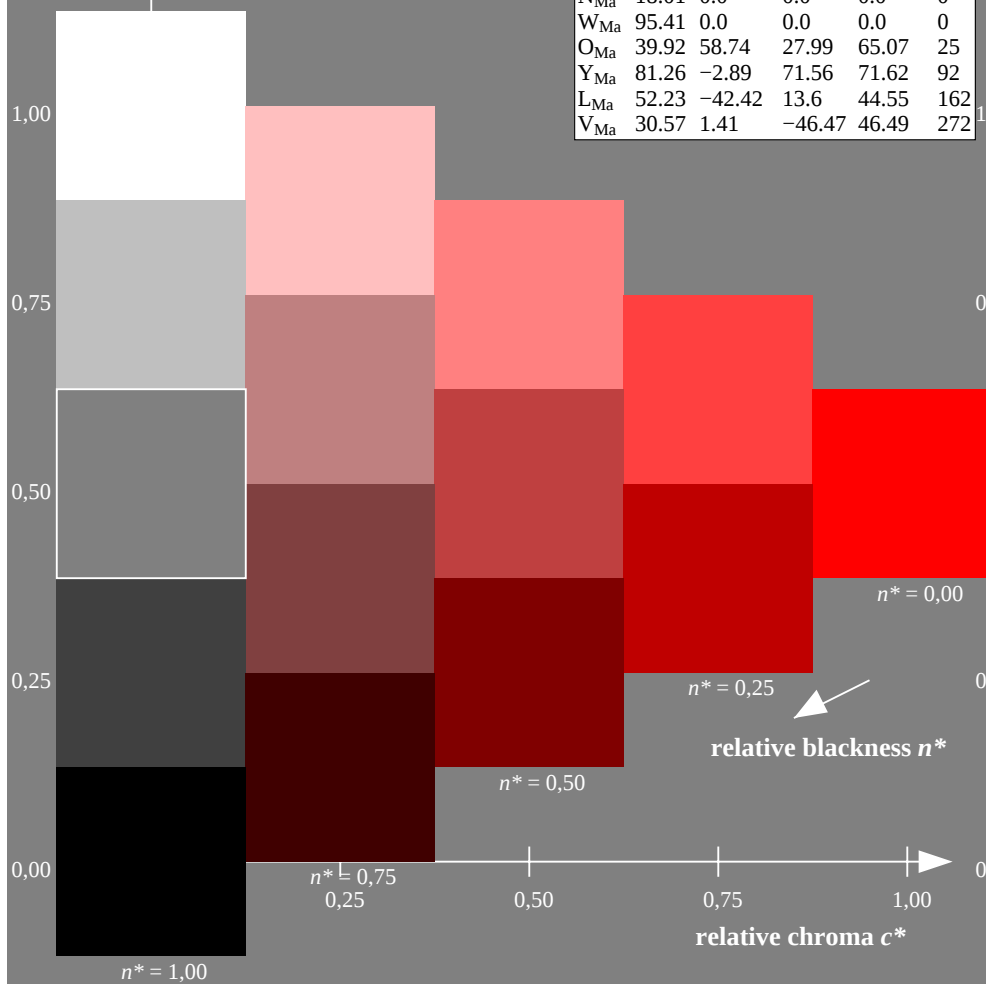
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.144$

data for any colour:

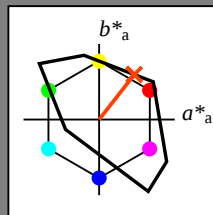
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = o25y$ $u^* = r39j$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 64 47 59

$LAB^*LCH^*_{Ma}$: 64 76 51

$lab^*olv^*_{Ma}$: 1.0 0.25 0.0

$lab^*rgb^*_{Ma}$: 1.0 0.4 0.0

triangle lightness t^*

% Gamut

$u^*_{rel} = 118$

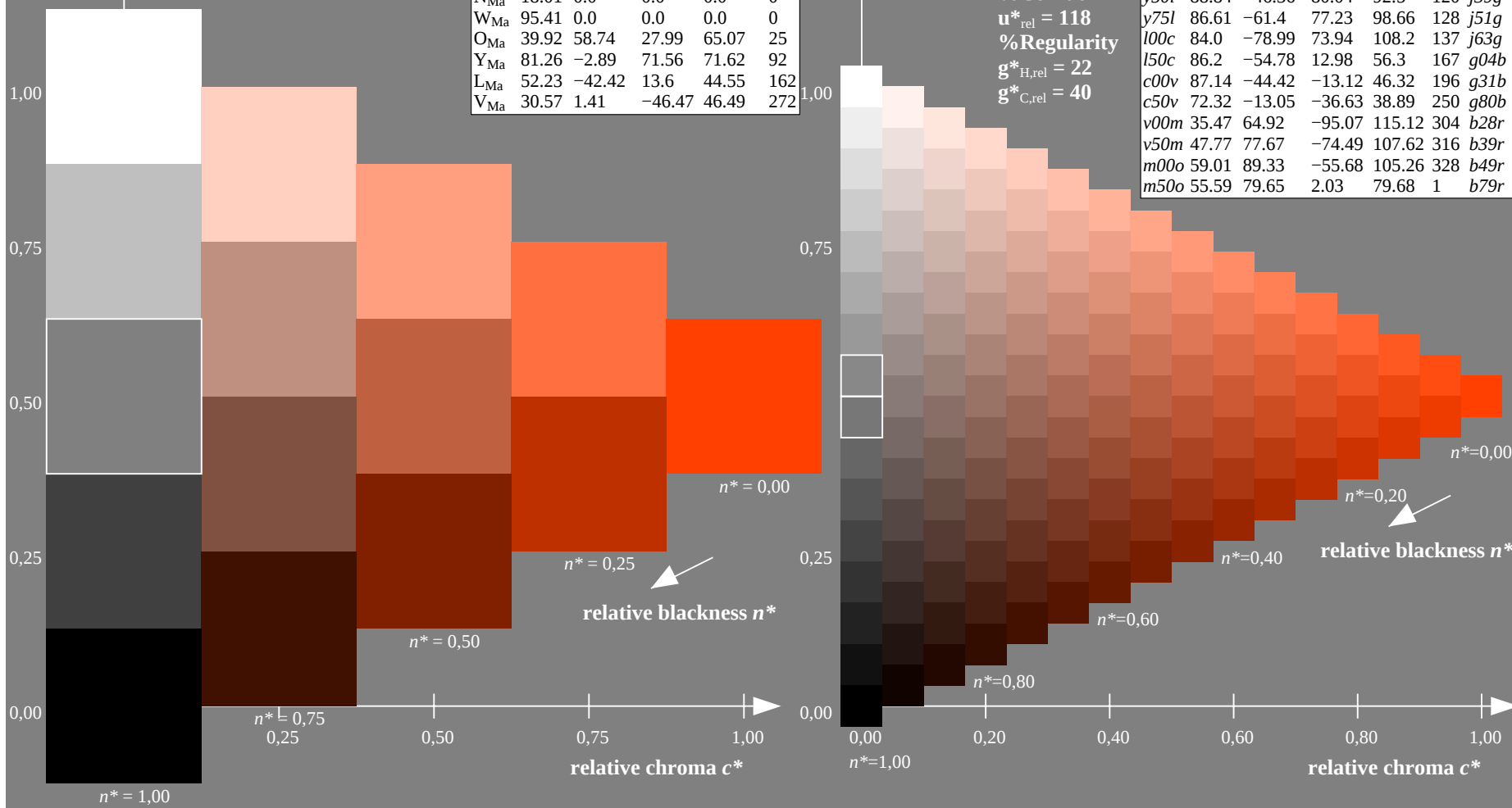
% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data

d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*
o00y	52.76	71.63	49.88	87.29	35	r14j
o25y	63.7	46.55	59.48	75.53	52	r39j
o50y	72.75	25.8	67.42	72.19	69	r65j
o75y	81.8	5.06	75.37	75.54	86	r90j
y00l	92.74	-20.03	84.97	87.3	103	j15g
y25l	90.85	-32.81	82.58	88.86	112	j27g
y50l	88.84	-46.36	80.04	92.5	120	j39g
y75l	86.61	-61.4	77.23	98.66	128	j51g
l00c	84.0	-78.99	73.94	108.2	137	j63g
l50c	86.2	-54.78	12.98	56.3	167	g04b
c00v	87.14	-44.42	-13.12	46.32	196	g31b
c50v	72.32	-13.05	-36.63	38.89	250	g80b
v00m	35.47	64.92	-95.07	115.12	304	b28r
v50m	47.77	77.67	-74.49	107.62	316	b39r
m00o	59.01	89.33	-55.68	105.26	328	b49r
m50o	55.59	79.65	2.03	79.68	1	b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.192$

data for any colour:

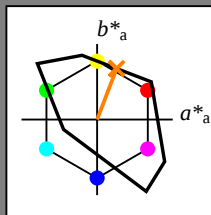
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = o50y$ $u^* = r65j$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 73 26 67

$LAB^*LCH^*_{Ma}$: 73 72 69

$lab^*olv^*_{Ma}$: 1.0 0.5 0.0

$lab^*rgb^*_{Ma}$: 1.0 0.65 0.0

triangle lightness t^*

% Gamut

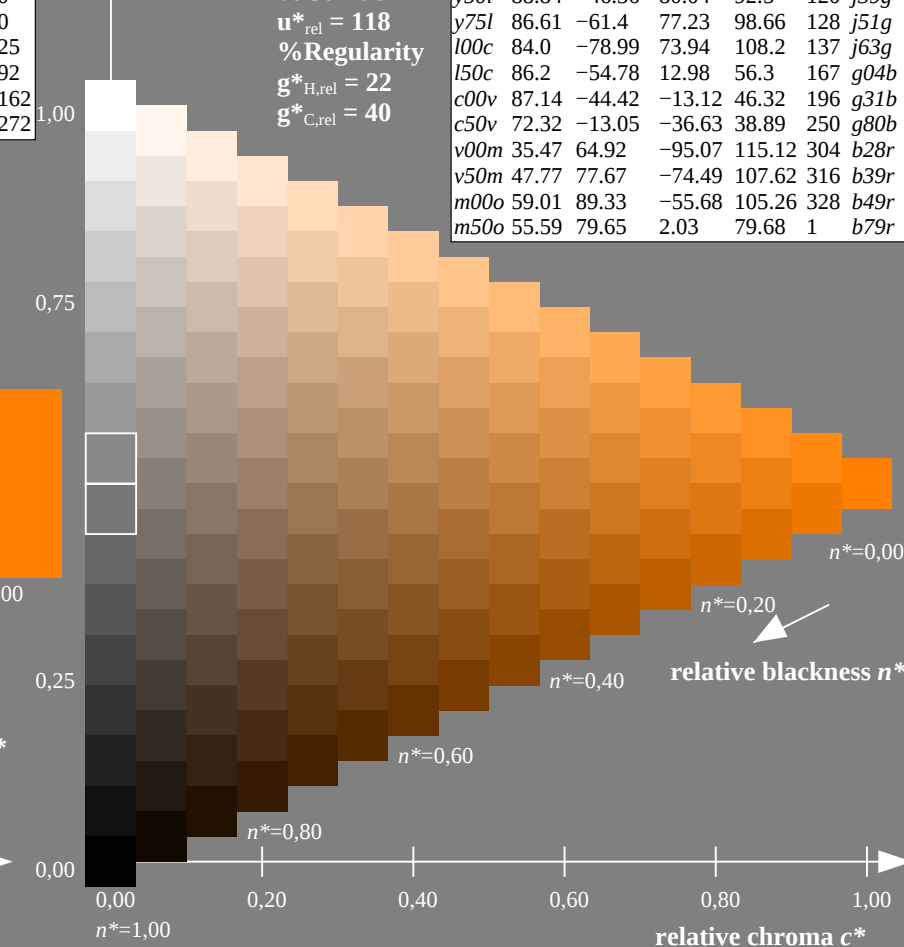
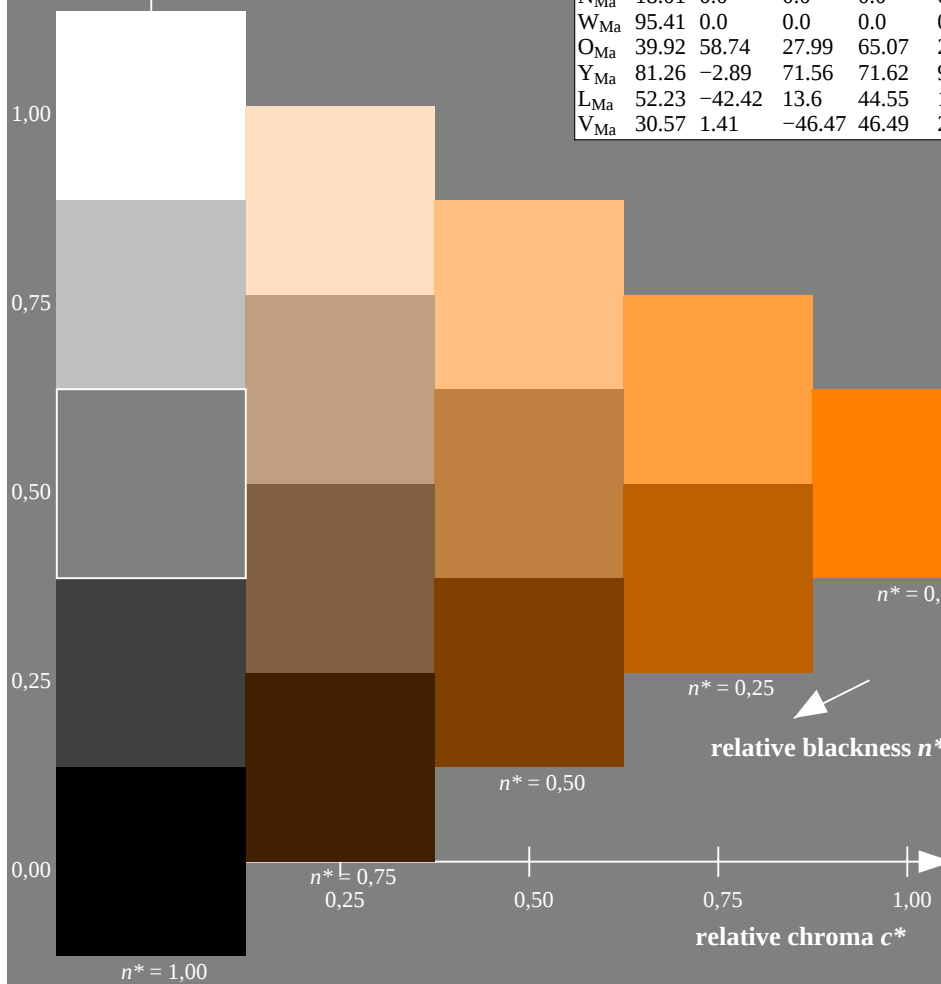
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.239$

data for any colour:

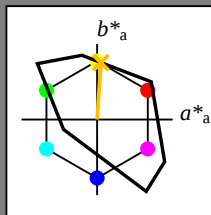
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = o75y$ $u^* = r90j$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 82 5 75

$LAB^*LCH^*_{Ma}$: 82 76 86

$lab^*olv^*_{Ma}$: 1.0 0.75 0.0

$lab^*rgb^*_{Ma}$: 1.0 0.91 0.0

triangle lightness t^*

% Gamut

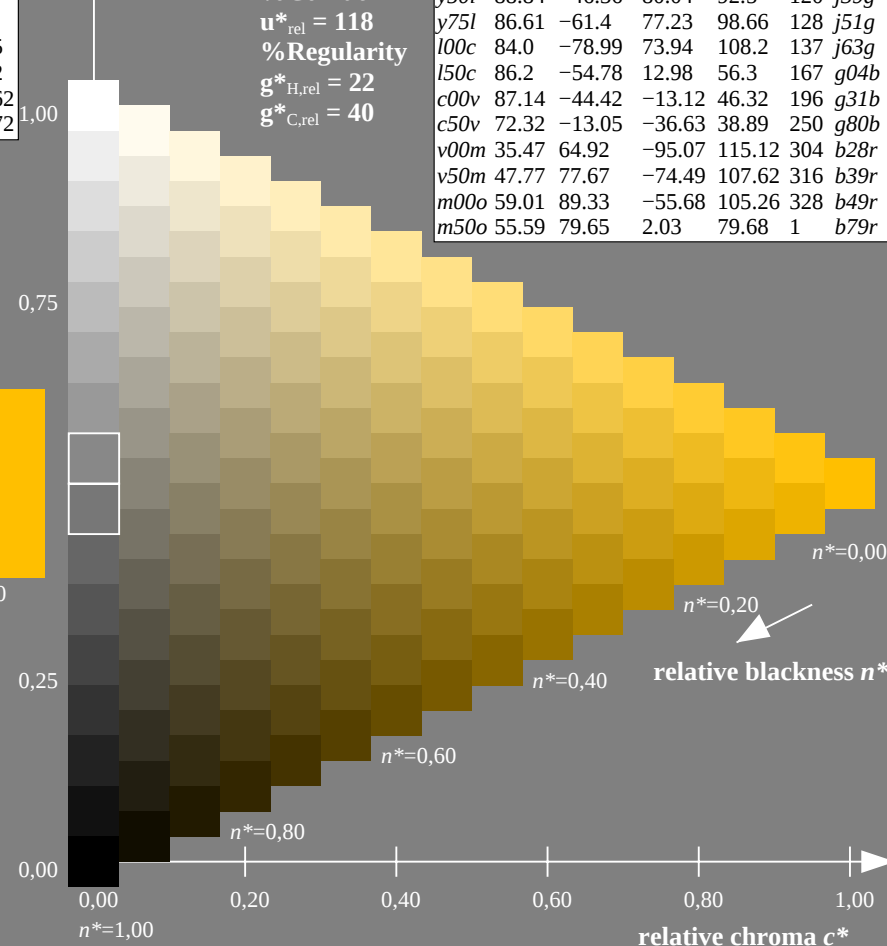
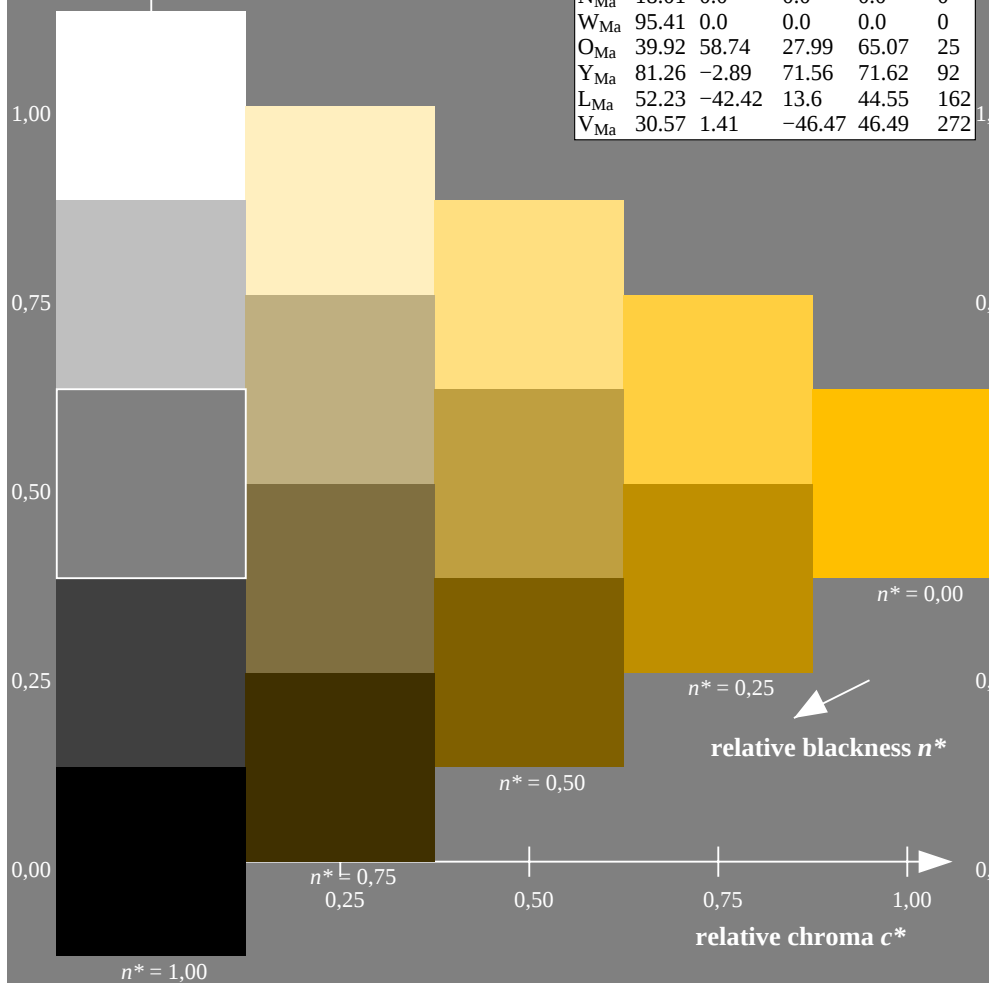
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.287$

data for any colour:

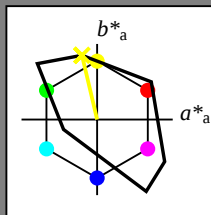
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y00l$ $u^* = j15g$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 93 -20 85

$LAB^*LCH^*_{Ma}$: 93 87 103

$lab^*olv^*_{Ma}$: 1.0 1.0 0.0

$lab^*rgb^*_{Ma}$: 0.84 1.0 0.0

triangle lightness t^*

% Gamut

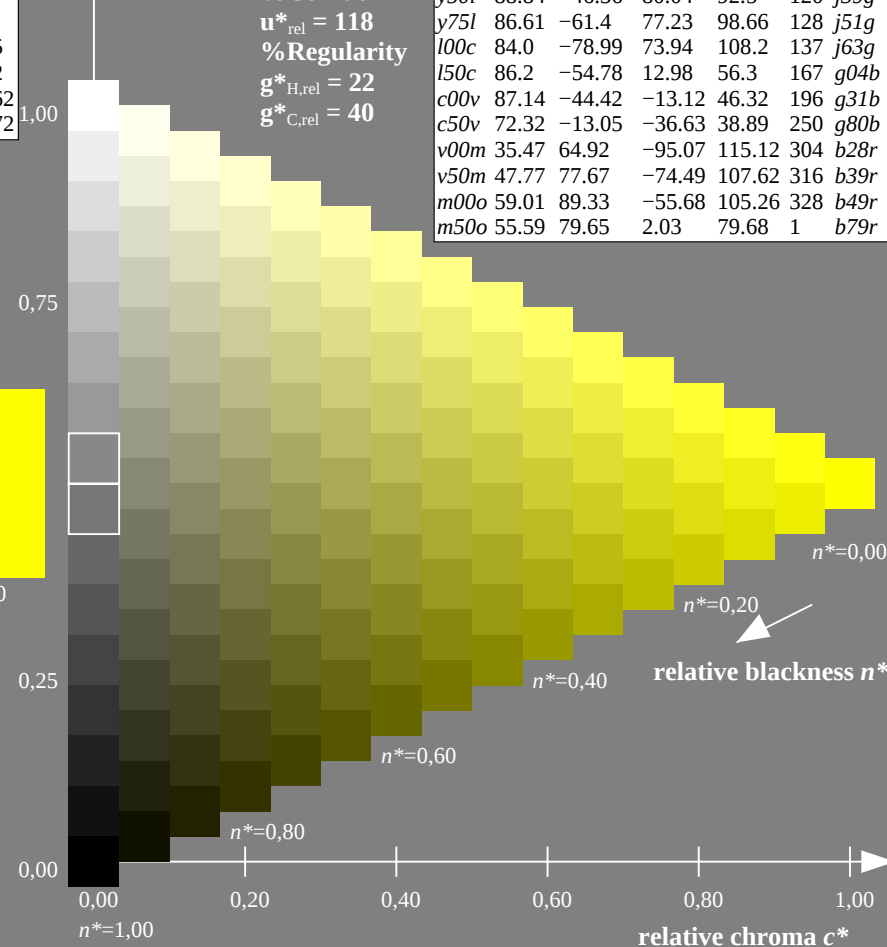
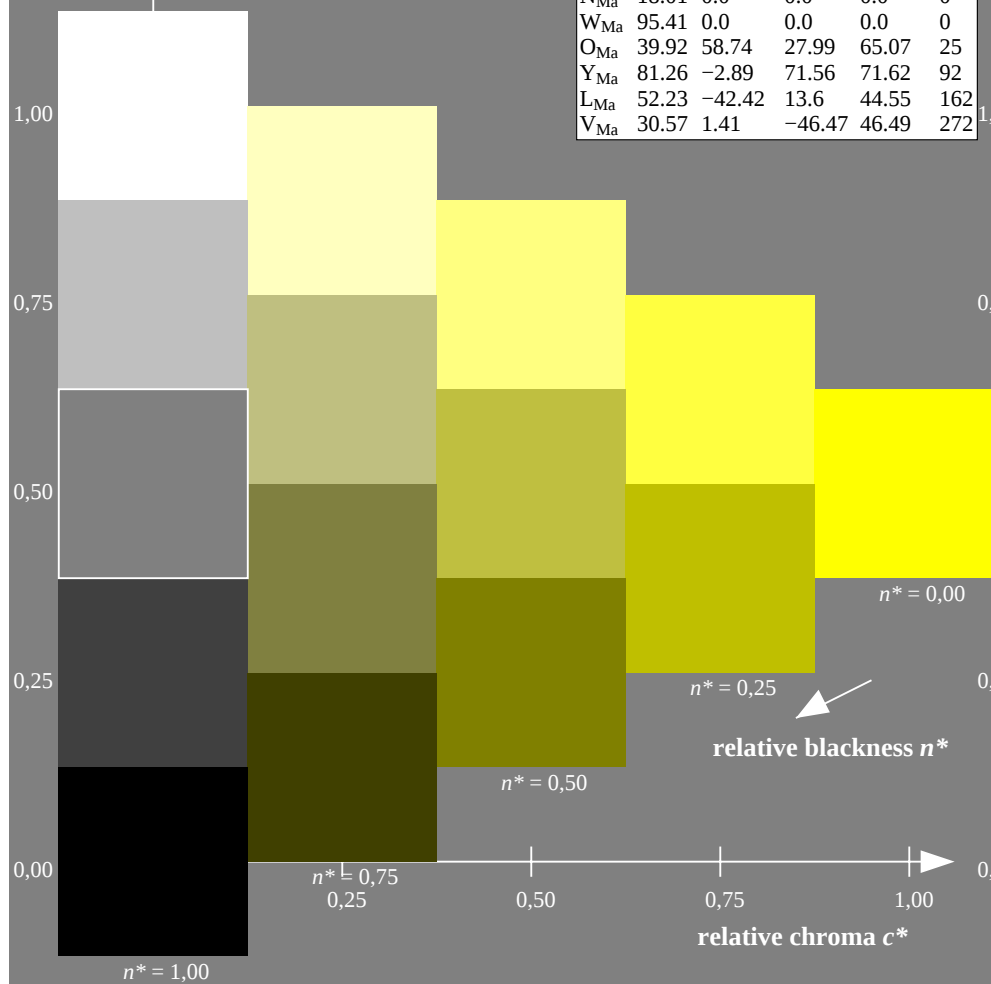
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.31$

data for any colour:

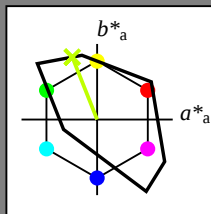
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y25l$ $u^* = j27g$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 91 -33 83

$LAB^*LCH^*_{Ma}$: 91 89 111

$lab^*olv^*_{Ma}$: 0.75 1.0 0.0

$lab^*rgb^*_{Ma}$: 0.72 1.0 0.0

triangle lightness t^*

% Gamut

$u^*_{rel} = 118$

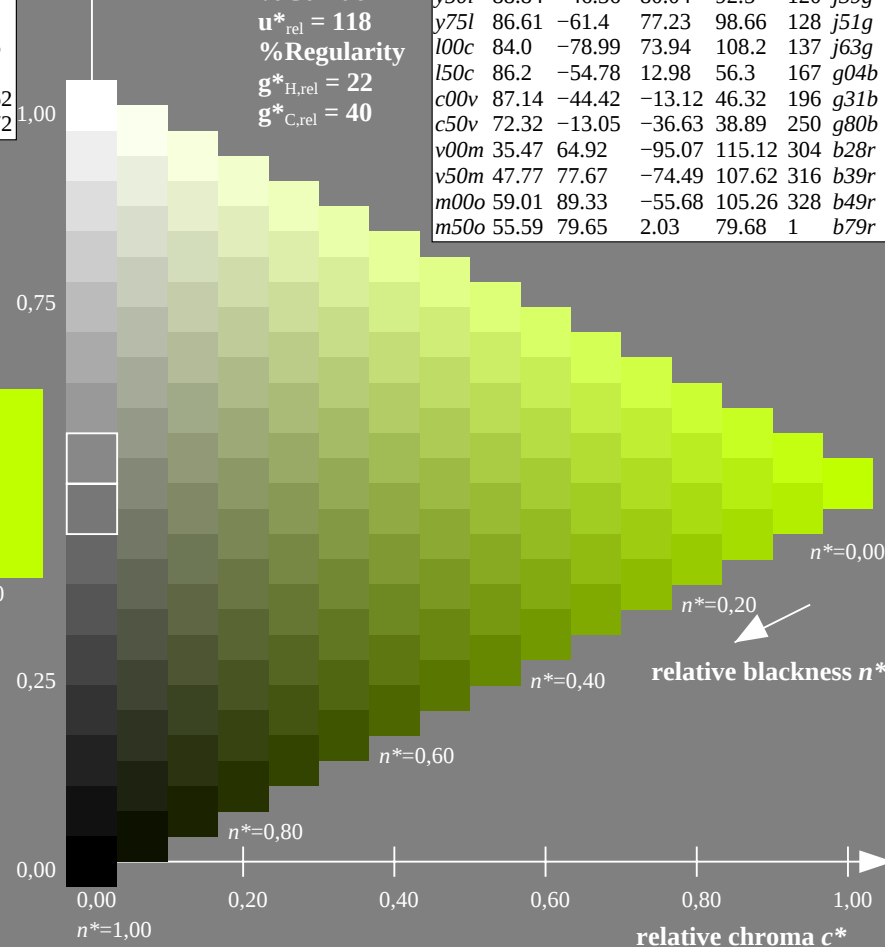
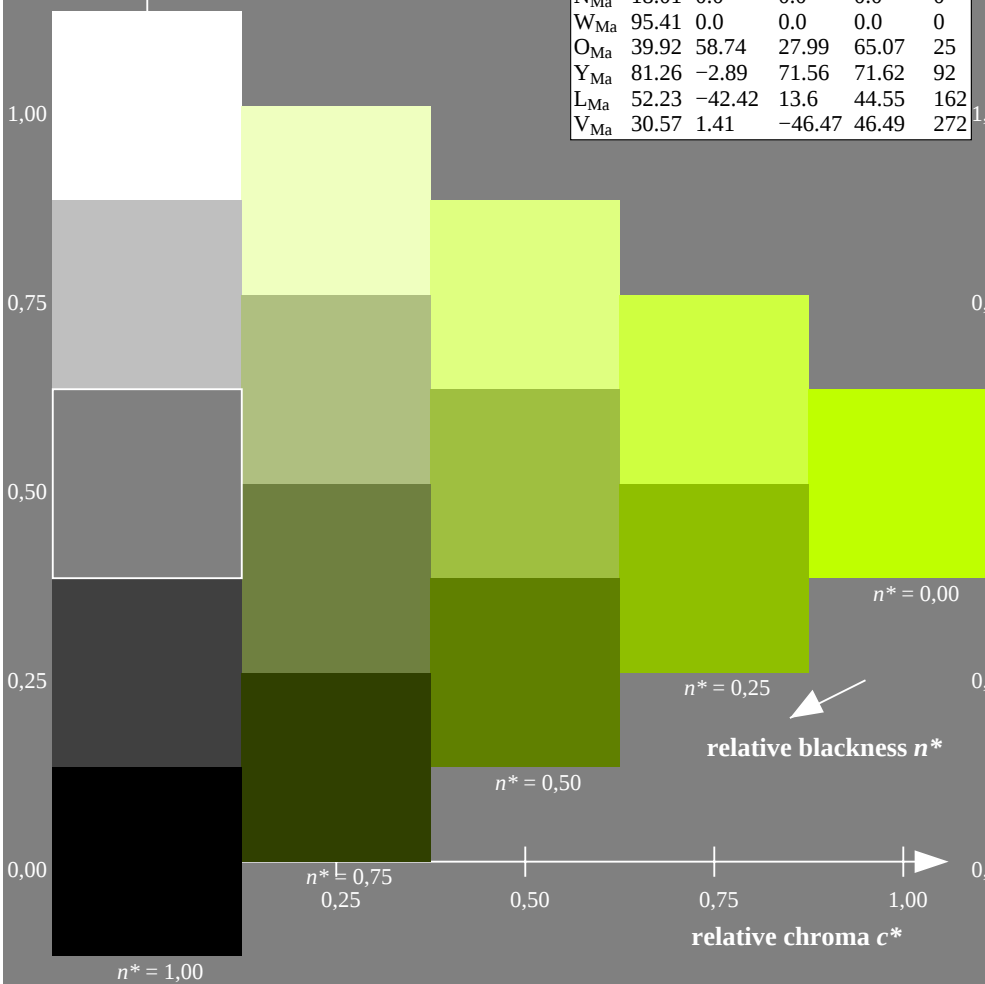
% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data

d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*
o00y	52.76	71.63	49.88	87.29	35	r14j
o25y	63.7	46.55	59.48	75.53	52	r39j
o50y	72.75	25.8	67.42	72.19	69	r65j
o75y	81.8	5.06	75.37	75.54	86	r90j
y00l	92.74	-20.03	84.97	87.3	103	j15g
y25l	90.85	-32.81	82.58	88.86	112	j27g
y50l	88.84	-46.36	80.04	92.5	120	j39g
y75l	86.61	-61.4	77.23	98.66	128	j51g
l00c	84.0	-78.99	73.94	108.2	137	j63g
l50c	86.2	-54.78	12.98	56.3	167	g04b
c00v	87.14	-44.42	-13.12	46.32	196	g31b
c50v	72.32	-13.05	-36.63	38.89	250	g80b
v00m	35.47	64.92	-95.07	115.12	304	b28r
v50m	47.77	77.67	-74.49	107.62	316	b39r
m00o	59.01	89.33	-55.68	105.26	328	b49r
m50o	55.59	79.65	2.03	79.68	1	b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.334$

data for any colour:

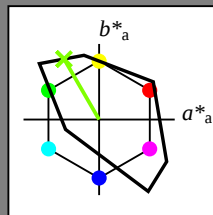
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y50l$ $u^* = j39g$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	52.76	71.63	49.88	87.29	35
YMa	92.74	-20.03	84.97	87.3	103
LMa	84.0	-78.99	73.94	108.2	137
CMa	87.14	-44.42	-13.12	46.32	196
VMa	35.47	64.92	-95.07	115.12	304
NMa	59.01	89.33	-55.68	105.26	328
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
OMa	39.92	58.74	27.99	65.07	25
YMa	81.26	-2.89	71.56	71.62	92
LMa	52.23	-42.42	13.6	44.55	162
VMa	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 89 -46 80

$LAB^*LCH^*_{Ma}$: 89 93 120

$lab^*olv^*_{Ma}$: 0.5 1.0 0.0

$lab^*rgb^*_{Ma}$: 0.6 1.0 0.0

triangle lightness t^*

% Gamut

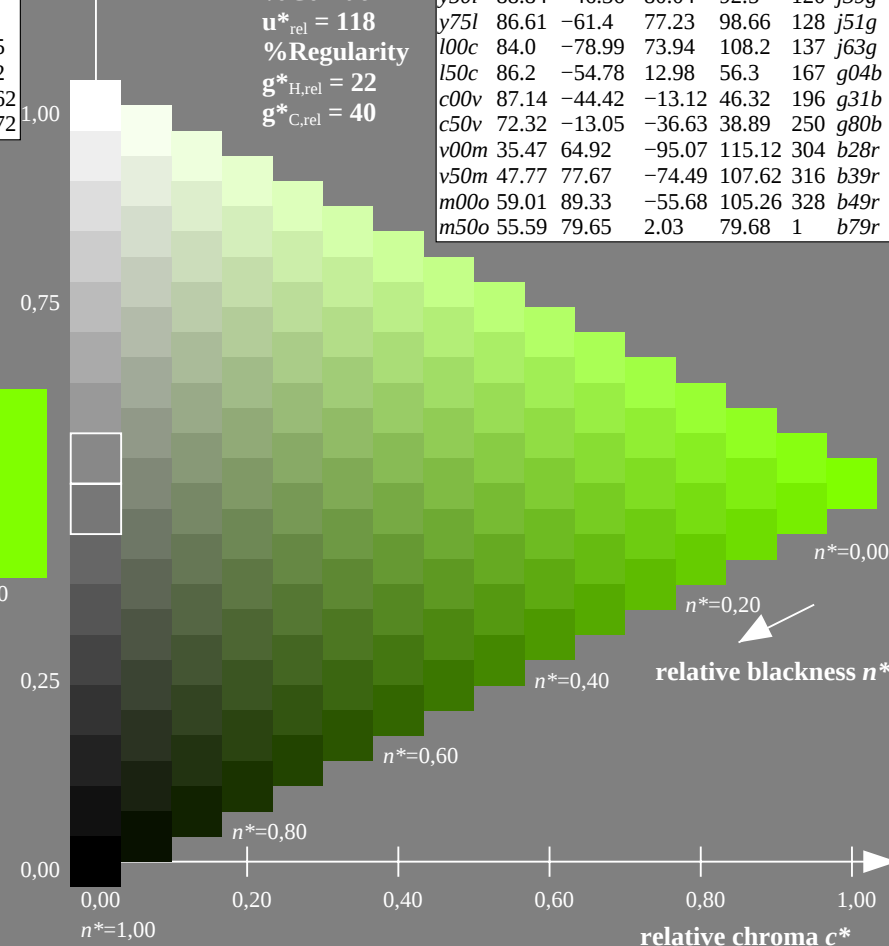
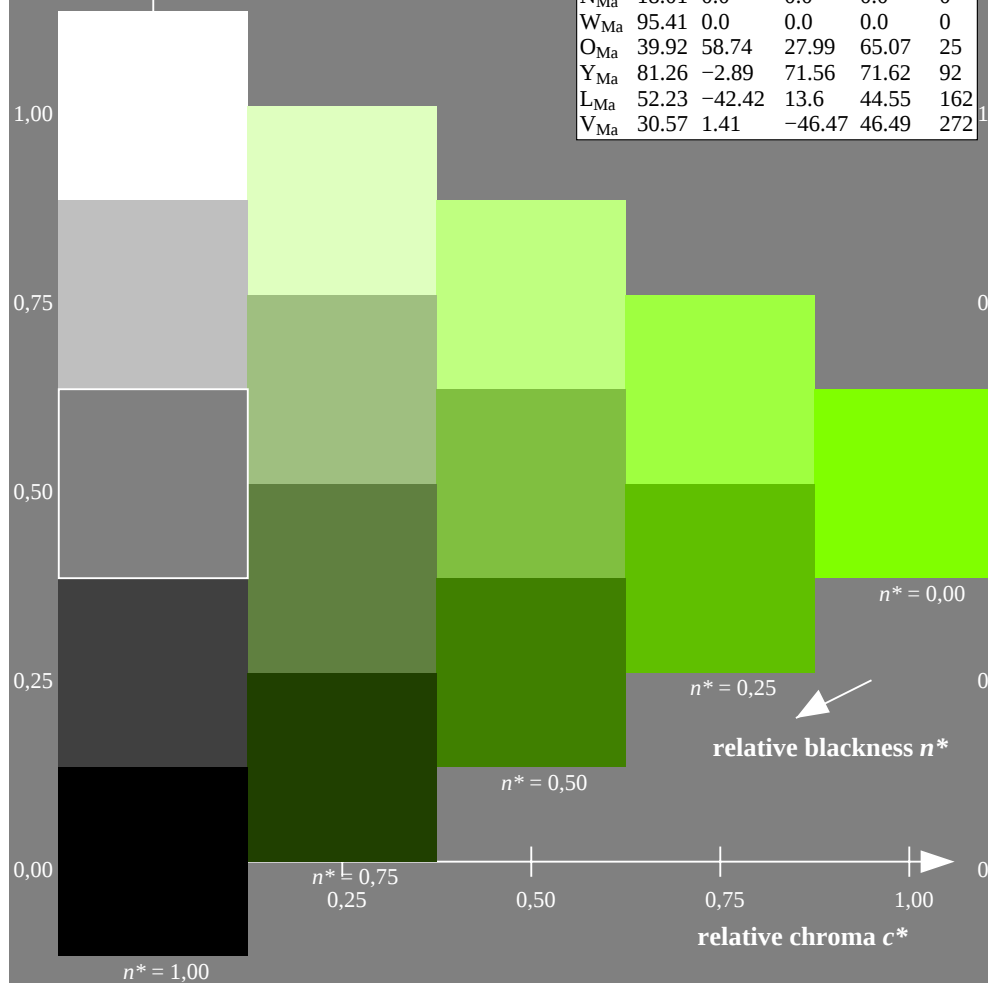
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.357$

data for any colour:

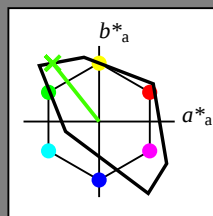
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y75l$ $u^* = j51g$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 87 -61 77

$LAB^*LCH^*_{Ma}$: 87 99 128

$lab^*olv^*_{Ma}$: 0.25 1.0 0.0

$lab^*rgb^*_{Ma}$: 0.48 1.0 0.0

triangle lightness t^*

% Gamut

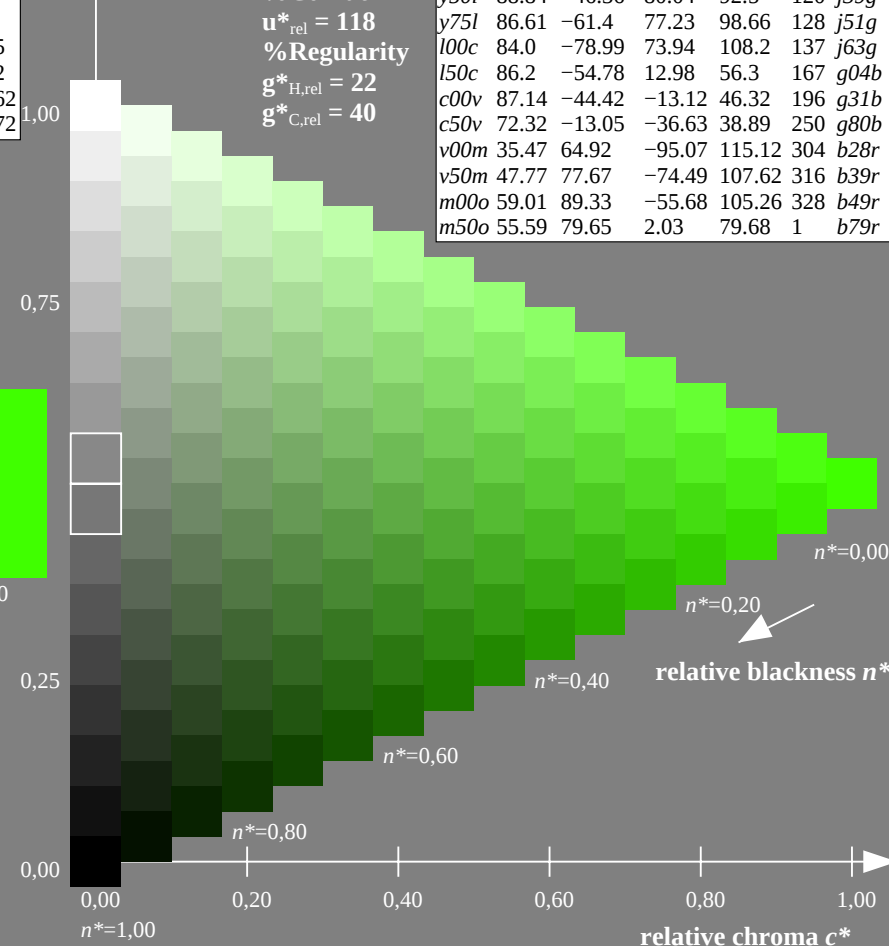
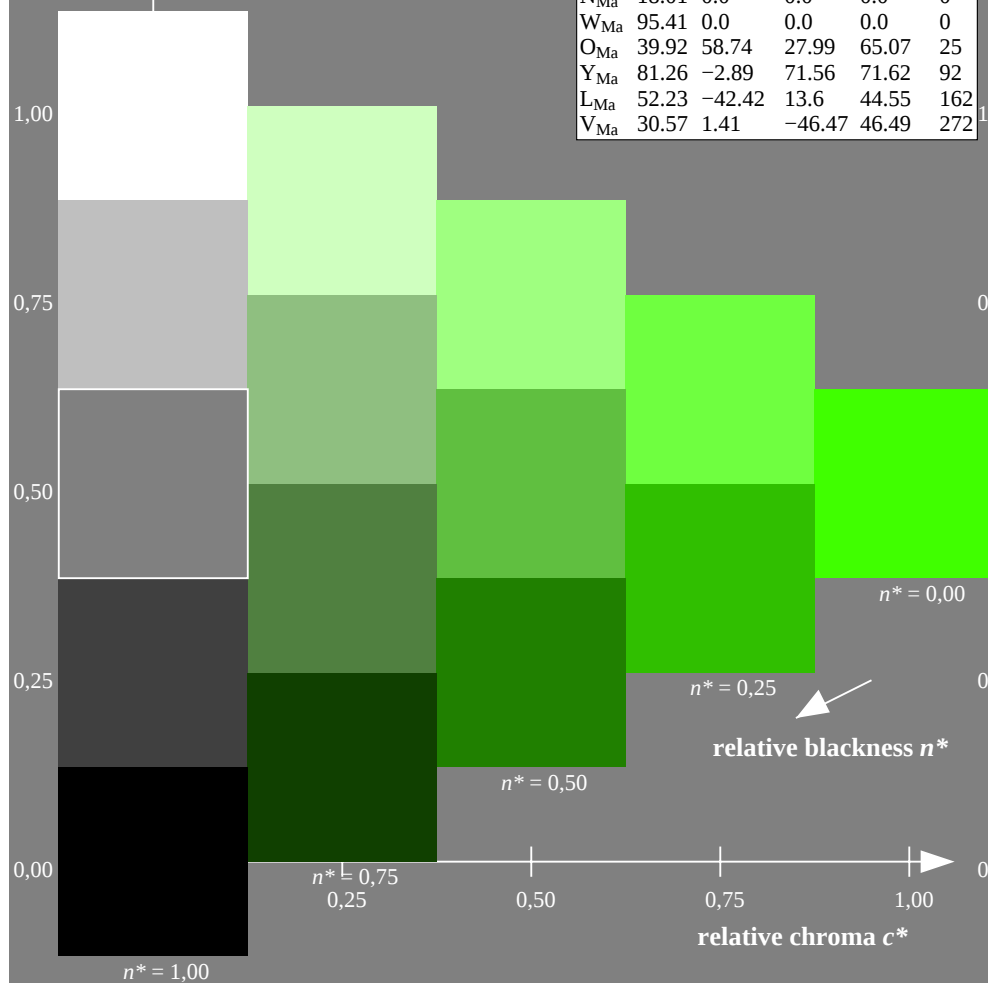
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.38$

data for any colour:

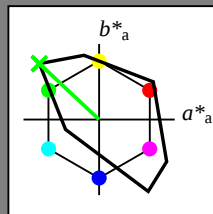
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = 100c$ $u^* = j63g$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 84 -79 74

$LAB^*LCH^*_{Ma}$: 84 108 136

$lab^*olv^*_{Ma}$: 0.0 1.0 0.0

$lab^*rgb^*_{Ma}$: 0.36 1.0 0.0

triangle lightness t^*

% Gamut

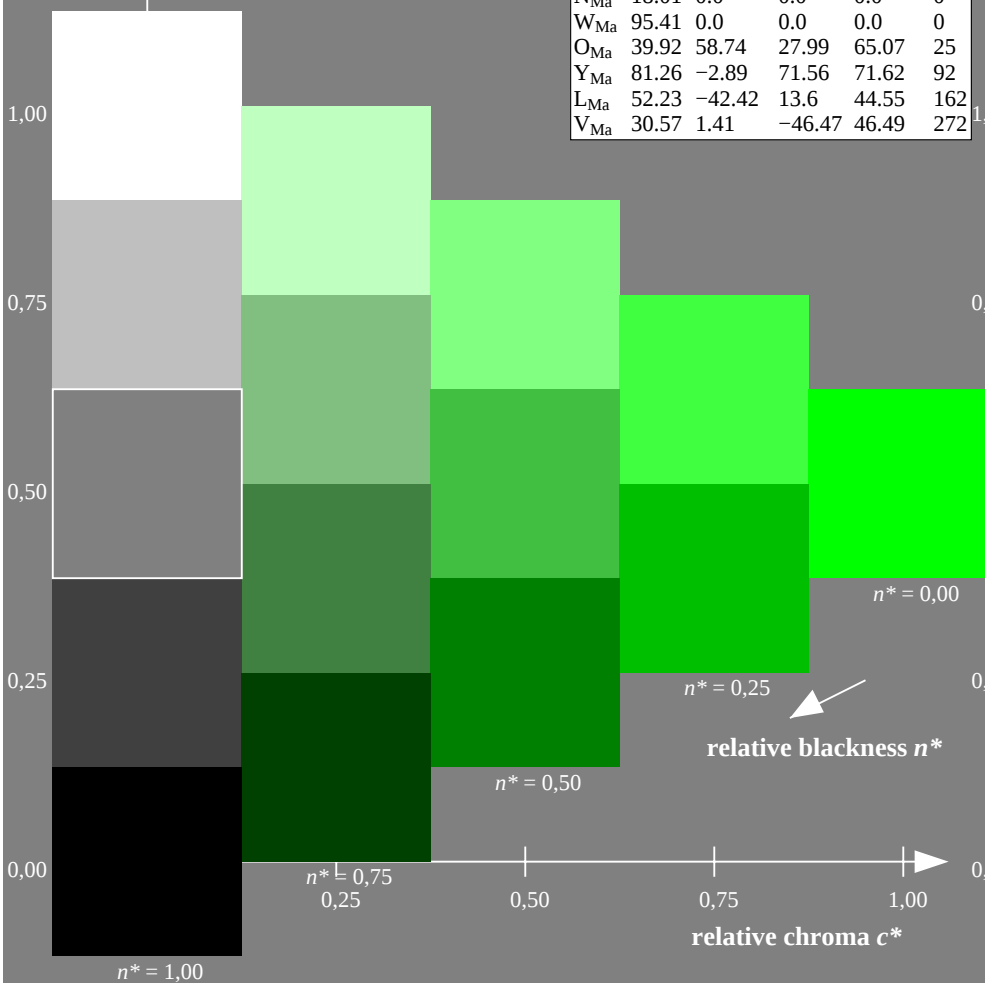
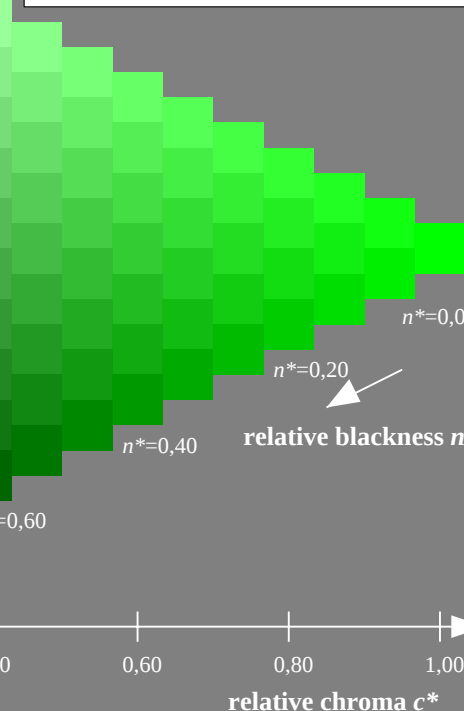
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
o00y	52.76	71.63	49.88	87.29	35
o25y	63.7	46.55	59.48	75.53	52
o50y	72.75	25.8	67.42	72.19	69
o75y	81.8	5.06	75.37	75.54	86
y00l	92.74	-20.03	84.97	87.3	103
y25l	90.85	-32.81	82.58	88.86	112
y50l	88.84	-46.36	80.04	92.5	120
y75l	86.61	-61.4	77.23	98.66	128
l00c	84.0	-78.99	73.94	108.2	137
l50c	86.2	-54.78	12.98	56.3	167
c00v	87.14	-44.42	-13.12	46.32	196
c50v	72.32	-13.05	-36.63	38.89	250
v00m	35.47	64.92	-95.07	115.12	304
v50m	47.77	77.67	-74.49	107.62	316
m00o	59.01	89.33	-55.68	105.26	328
m50o	55.59	79.65	2.03	79.68	1



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.463$

data for any colour:

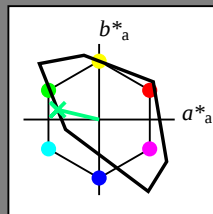
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = l50c$ $u^* = g04b$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 86 -55 13

$LAB^*LCH^*_{Ma}$: 86 56 166

$lab^*olv^*_{Ma}$: 0.0 1.0 0.5

$lab^*rgb^*_{Ma}$: 0.0 1.0 0.08

triangle lightness t^*

% Gamut

$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
o00y	52.76	71.63	49.88	87.29	35
o25y	63.7	46.55	59.48	75.53	52
o50y	72.75	25.8	67.42	72.19	69
o75y	81.8	5.06	75.37	75.54	86
y00l	92.74	-20.03	84.97	87.3	103
y25l	90.85	-32.81	82.58	88.86	112
y50l	88.84	-46.36	80.04	92.5	120
y75l	86.61	-61.4	77.23	98.66	128
l00c	84.0	-78.99	73.94	108.2	137
l50c	86.2	-54.78	12.98	56.3	167
c00v	87.14	-44.42	-13.12	46.32	196
c50v	72.32	-13.05	-36.63	38.89	250
v00m	35.47	64.92	-95.07	115.12	304
v50m	47.77	77.67	-74.49	107.62	316
m00o	59.01	89.33	-55.68	105.26	328
m50o	55.59	79.65	2.03	79.68	1

$n^* = 0.00$

$n^* = 0.20$

$n^* = 0.40$

$n^* = 0.60$

$n^* = 0.80$

$n^* = 1.00$

relative blackness n^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

relative chroma c^*

Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.546$

data for any colour:

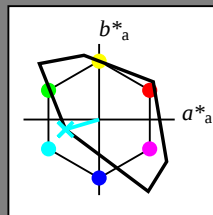
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = c00v$ $u^* = g31b$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 87 -44 -13

$LAB^*LCH^*_{Ma}$: 87 46 196

$lab^*olv^*_{Ma}$: 0.0 1.0 1.0

$lab^*rgb^*_{Ma}$: 0.0 1.0 0.63

triangle lightness t^*

% Gamut

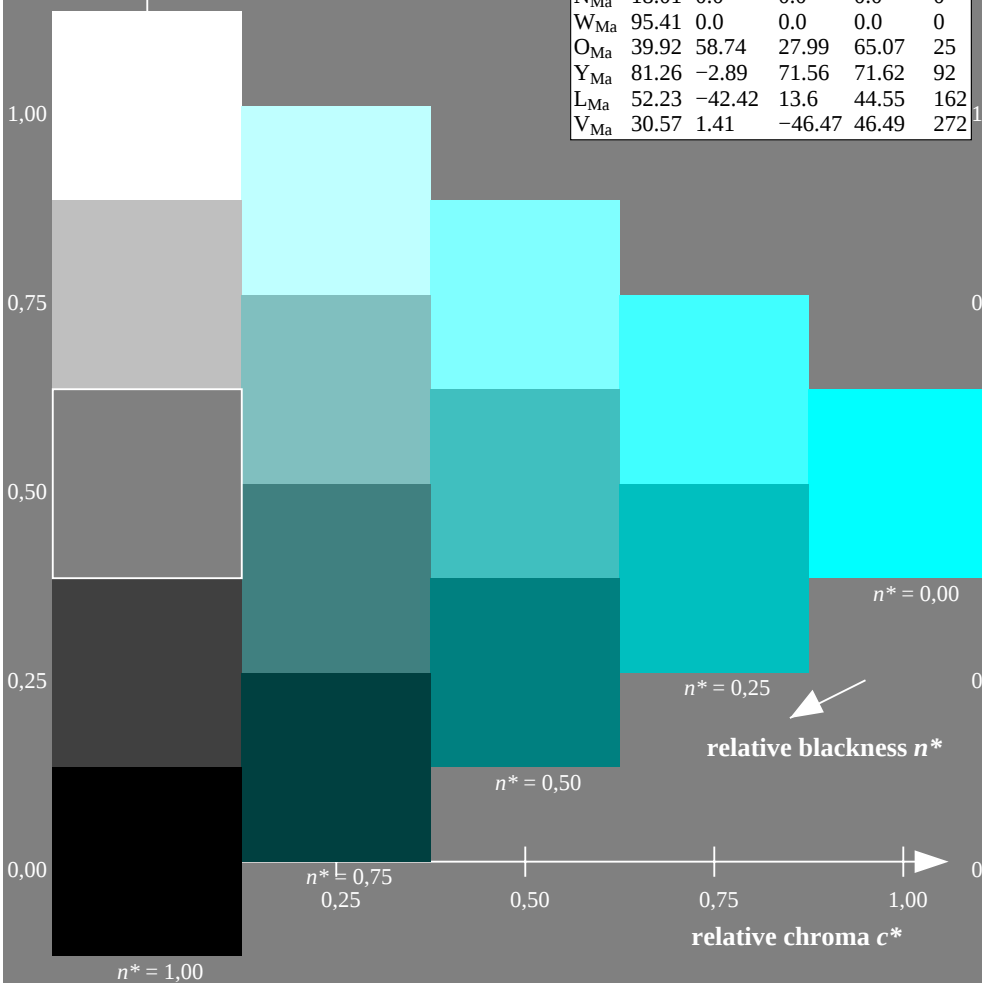
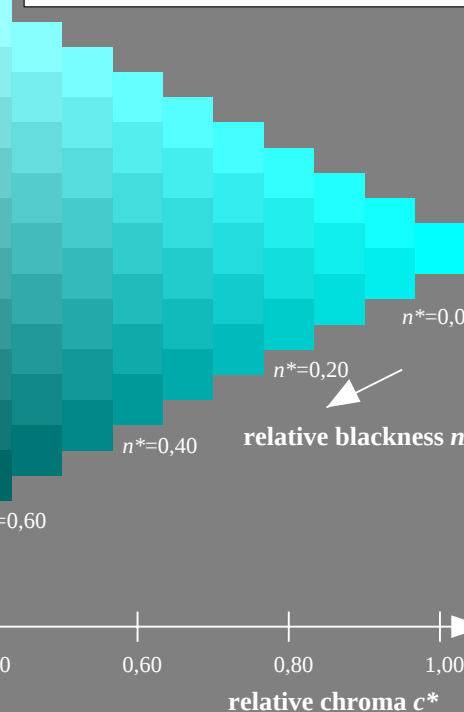
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
o00y	52.76	71.63	49.88	87.29	35
o25y	63.7	46.55	59.48	75.53	52
o50y	72.75	25.8	67.42	72.19	69
o75y	81.8	5.06	75.37	75.54	86
y00l	92.74	-20.03	84.97	87.3	103
y25l	90.85	-32.81	82.58	88.86	112
y50l	88.84	-46.36	80.04	92.5	120
y75l	86.61	-61.4	77.23	98.66	128
l00c	84.0	-78.99	73.94	108.2	137
l50c	86.2	-54.78	12.98	56.3	167
c00v	87.14	-44.42	-13.12	46.32	196
c50v	72.32	-13.05	-36.63	38.89	250
v00m	35.47	64.92	-95.07	115.12	304
v50m	47.77	77.67	-74.49	107.62	316
m00o	59.01	89.33	-55.68	105.26	328
m50o	55.59	79.65	2.03	79.68	1



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.696$

data for any colour:

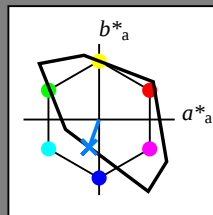
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = c50v$ $u^* = g80b$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 72 -13 -37

$LAB^*LCH^*_{Ma}$: 72 39 250

$lab^*olv^*_{Ma}$: 0.0 0.5 1.0

$lab^*rgb^*_{Ma}$: 0.0 0.39 1.0

triangle lightness t^*

% Gamut

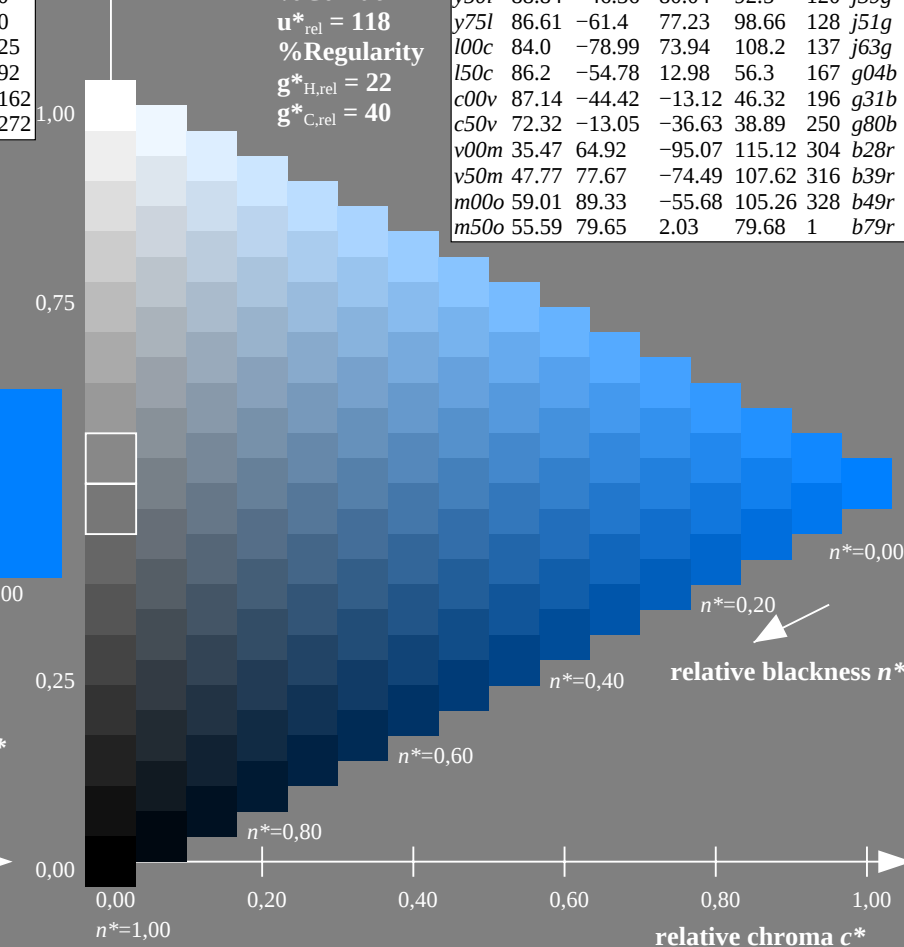
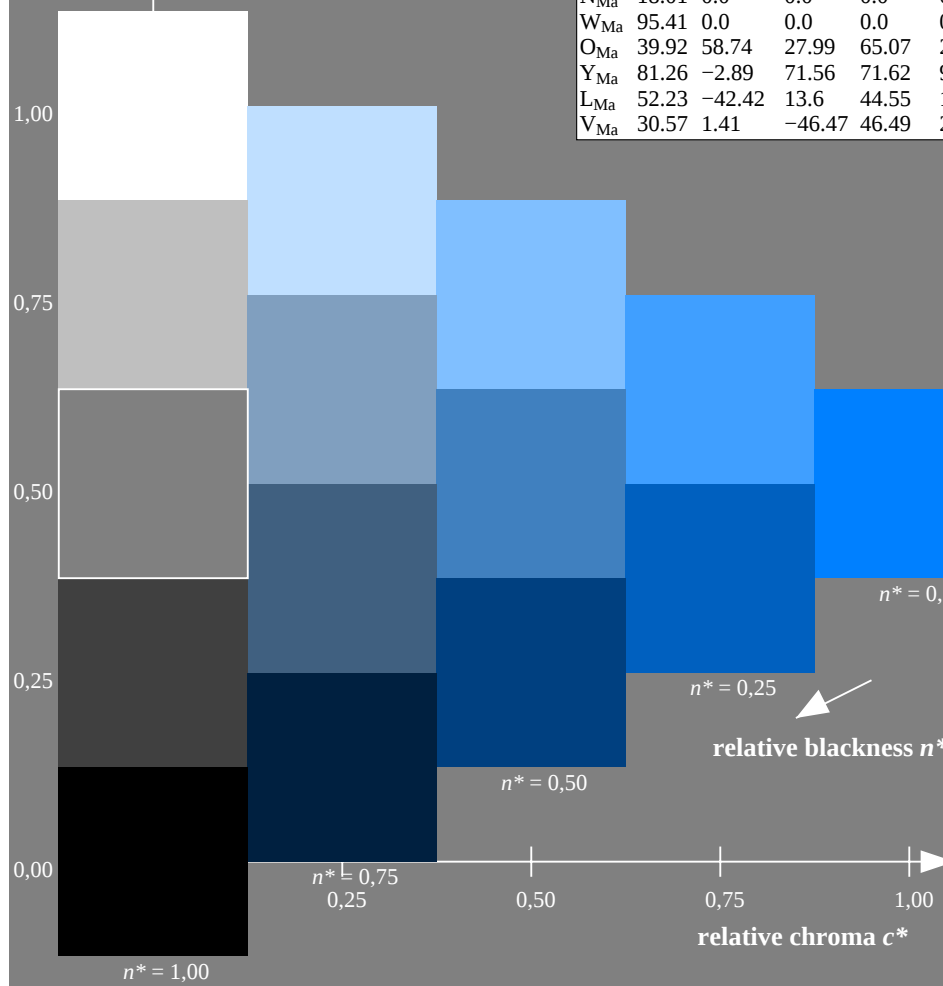
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.845$

data for any colour:

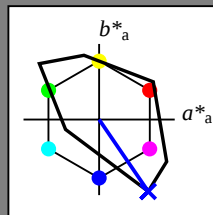
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = v00m$ $u^* = b28r$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	52.76	71.63	49.88	87.29	35
YMa	92.74	-20.03	84.97	87.3	103
LMa	84.0	-78.99	73.94	108.2	137
CMa	87.14	-44.42	-13.12	46.32	196
VMa	35.47	64.92	-95.07	115.12	304
MMa	59.01	89.33	-55.68	105.26	328
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
OMa	39.92	58.74	27.99	65.07	25
YMa	81.26	-2.89	71.56	71.62	92
LMa	52.23	-42.42	13.6	44.55	162
VMa	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

LAB^*LAB^*Ma : 35 65 -95

LAB^*LCH^*Ma : 35 115 304

lab^*olv^*Ma : 0.0 0.0 1.0

lab^*rgb^*Ma : 0.57 0.0 1.0

triangle lightness t^*

% Gamut

$u^*_{rel} = 118$

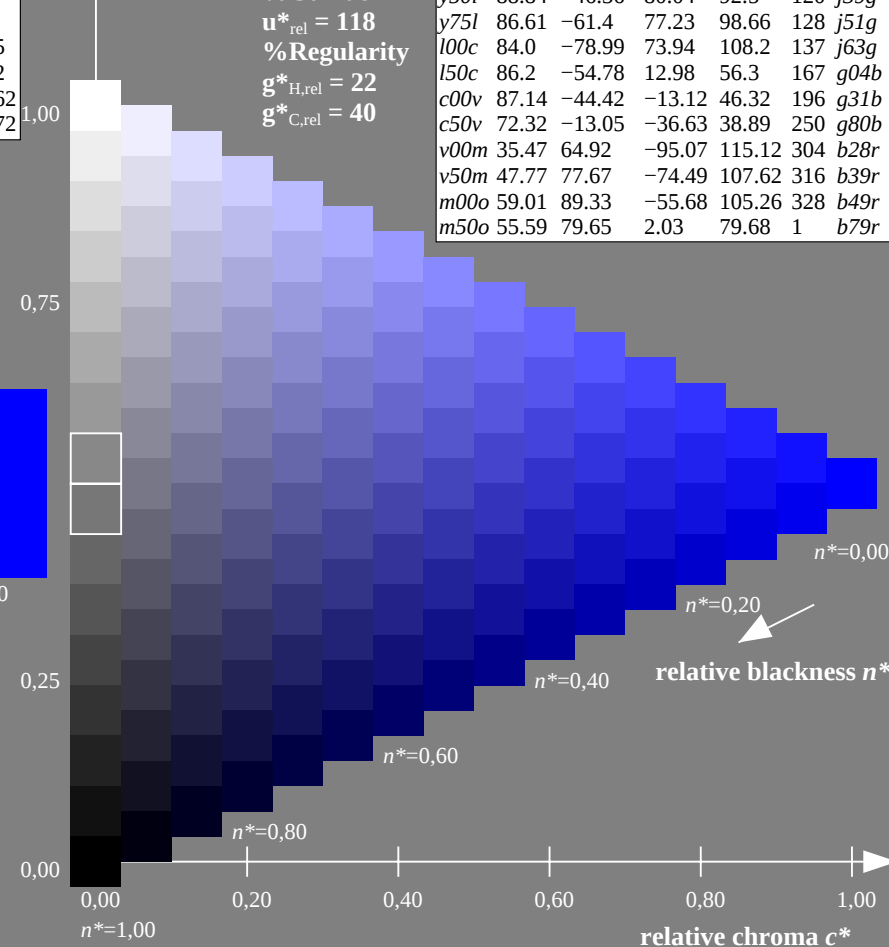
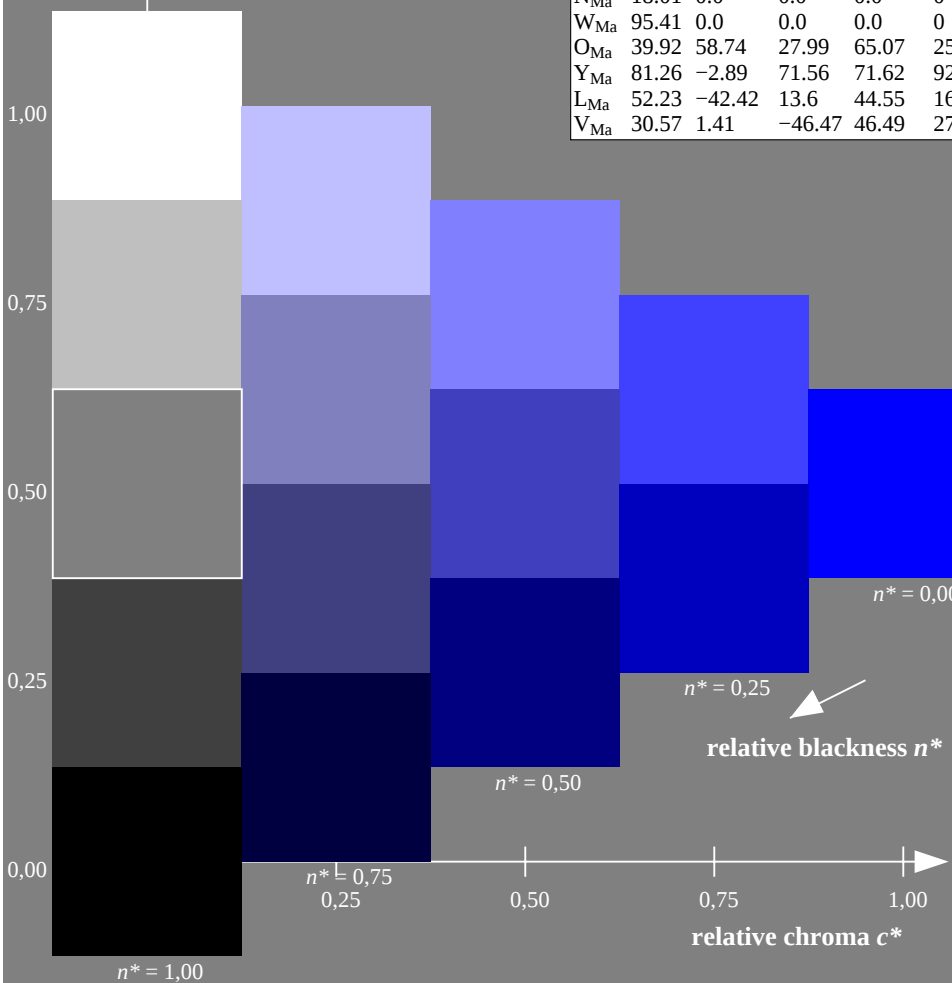
% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data

d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*
o00y	52.76	71.63	49.88	87.29	35	r14j
o25y	63.7	46.55	59.48	75.53	52	r39j
o50y	72.75	25.8	67.42	72.19	69	r65j
o75y	81.8	5.06	75.37	75.54	86	r90j
y00l	92.74	-20.03	84.97	87.3	103	j15g
y25l	90.85	-32.81	82.58	88.86	112	j27g
y50l	88.84	-46.36	80.04	92.5	120	j39g
y75l	86.61	-61.4	77.23	98.66	128	j51g
l00c	84.0	-78.99	73.94	108.2	137	j63g
l50c	86.2	-54.78	12.98	56.3	167	g04b
c00v	87.14	-44.42	-13.12	46.32	196	g31b
c50v	72.32	-13.05	-36.63	38.89	250	g80b
v00m	35.47	64.92	-95.07	115.12	304	b28r
v50m	47.77	77.67	-74.49	107.62	316	b39r
m00o	59.01	89.33	-55.68	105.26	328	b49r
m50o	55.59	79.65	2.03	79.68	1	b79r



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.878$

data for any colour:

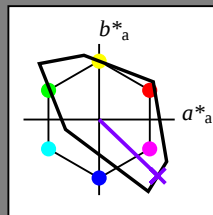
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = v50m$ $u^* = b39r$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 48 78 -74

$LAB^*LCH^*_{Ma}$: 48 108 316

$lab^*olv^*_{Ma}$: 0.5 0.0 1.0

$lab^*rgb^*_{Ma}$: 0.78 0.0 1.0

triangle lightness t^*

% Gamut

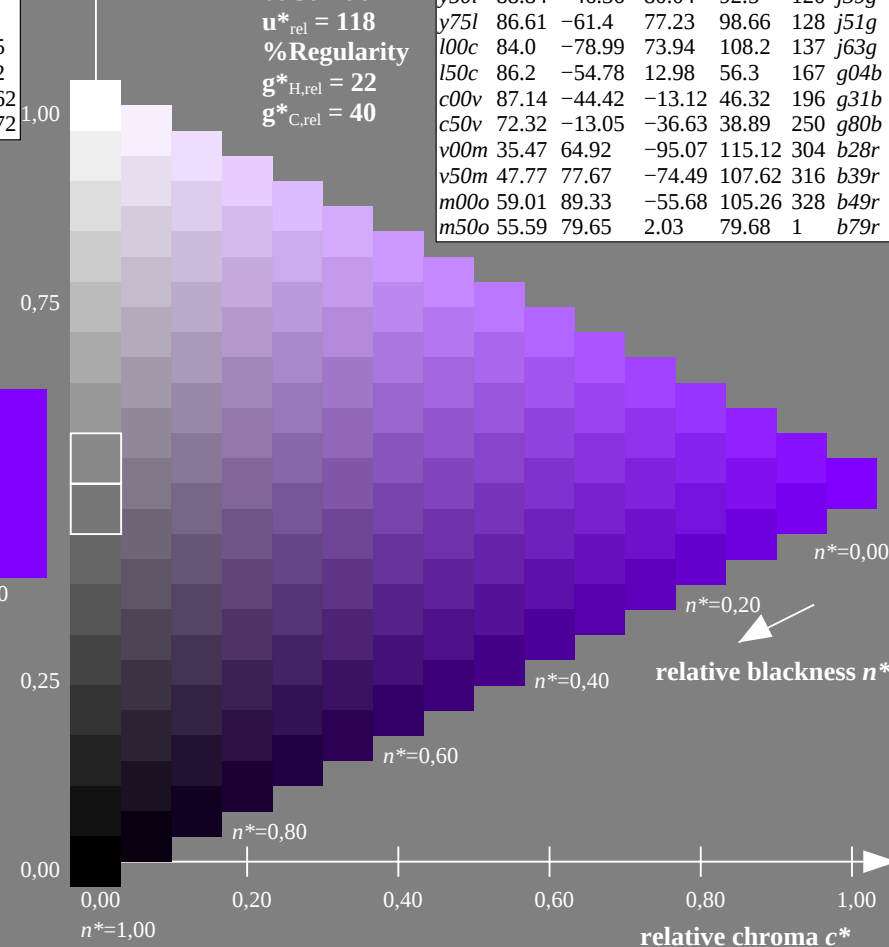
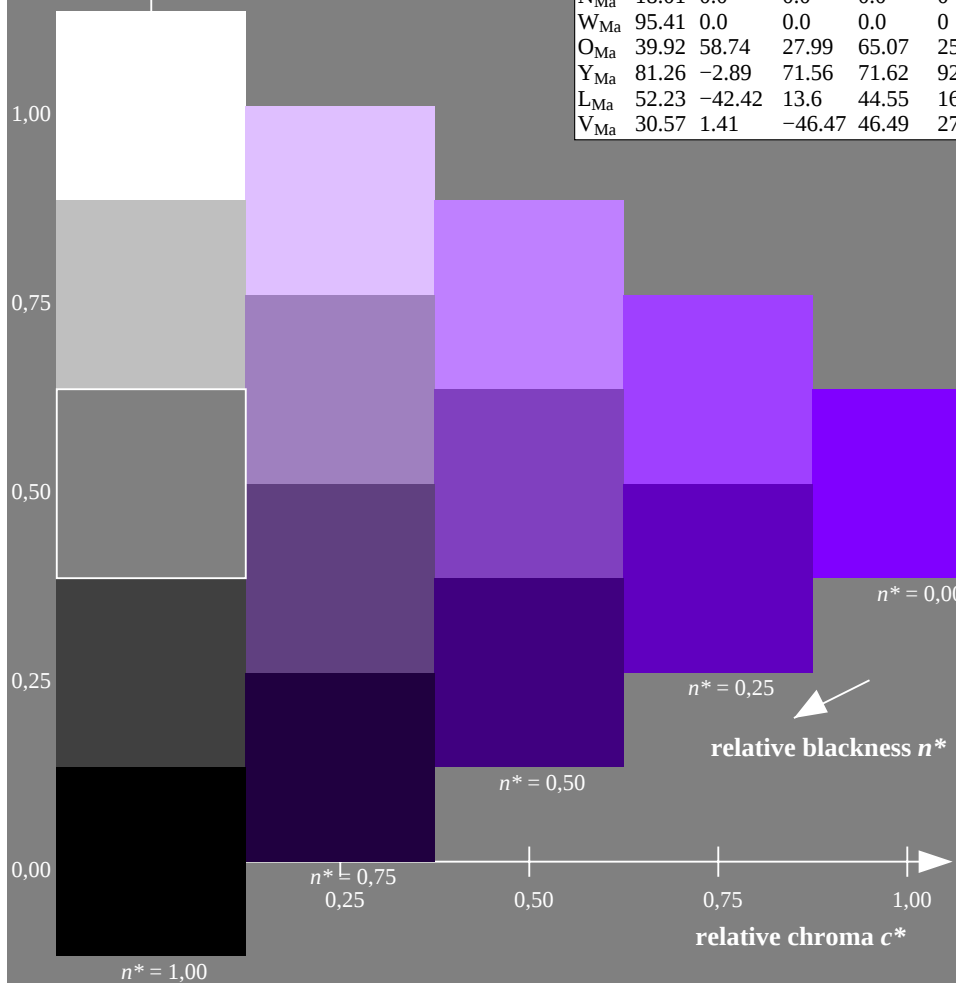
$u^*_{rel} = 118$

% Regularity

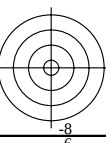
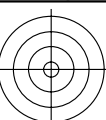
$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

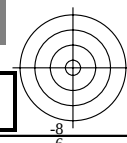
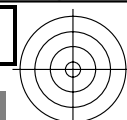
TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



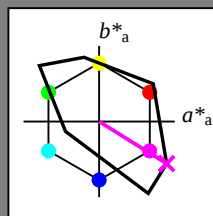
See original or copy: <http://web.me.com/klaus.richter/IE55/IE55LONP.PDF/> .PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



<http://130.149.60.45/~farbmetrik/IE55/IE55LONP.PDF/> .PS; transfer and output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.911$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = m00o$ $u^* = b49r$



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 59 89 -56

$LAB^*LCH^*_{Ma}$: 59 105 328

$lab^*olv^*_{Ma}$: 1.0 0.0 1.0

$lab^*rgb^*_{Ma}$: 0.99 0.0 1.0

triangle lightness t^*

% Gamut

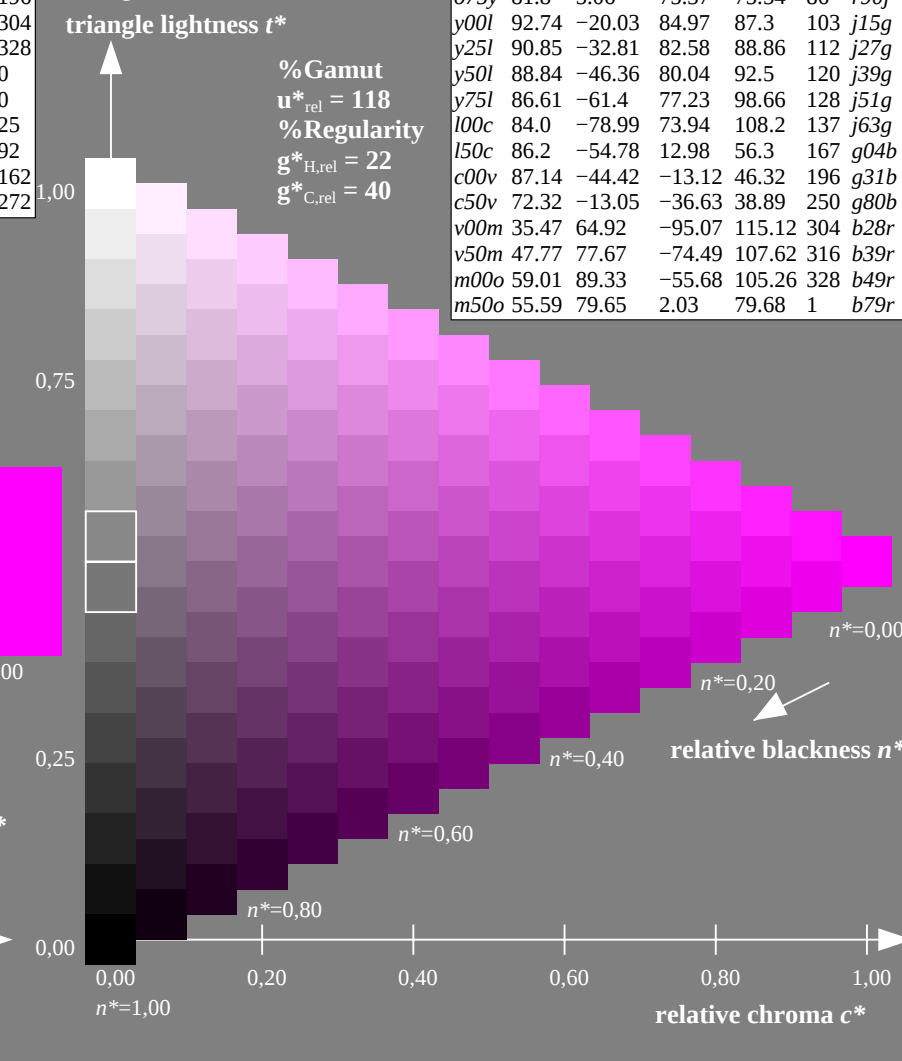
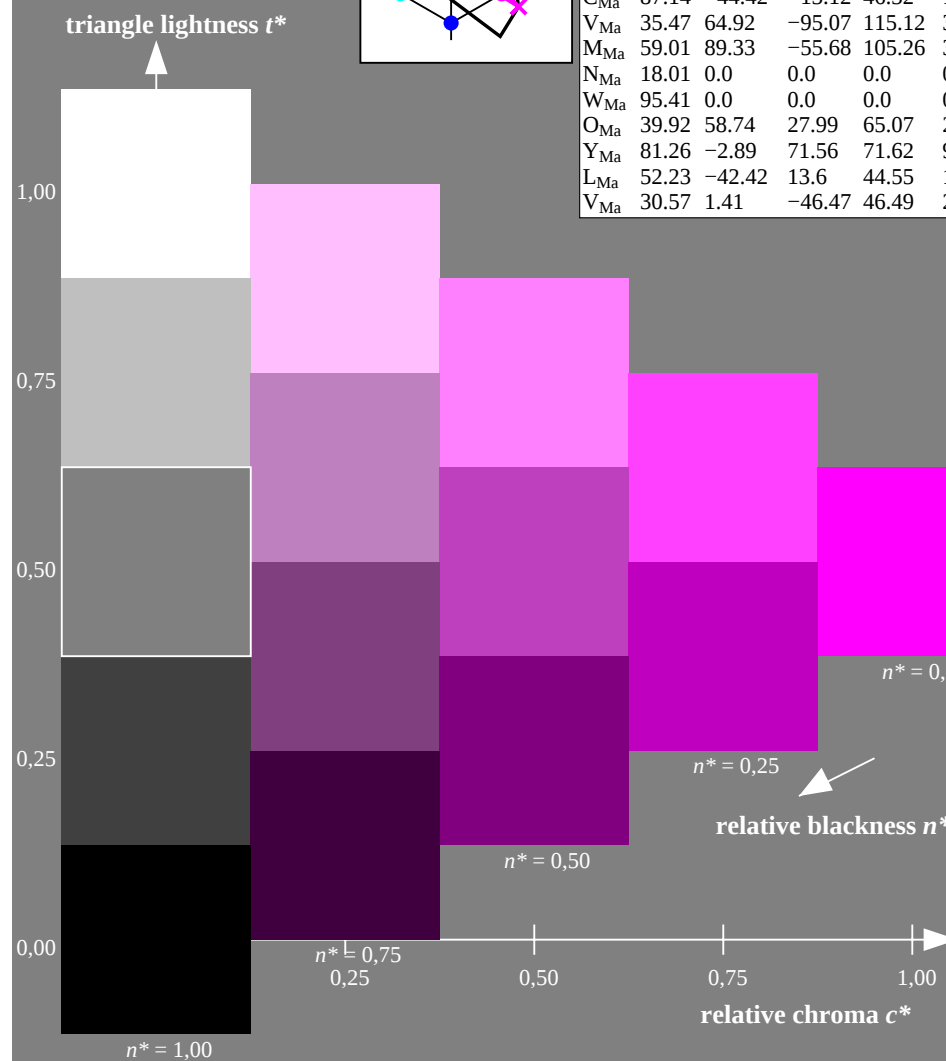
$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r



TUB-test chart IE55; Colorimetric systems, Page 15/16
Hue plane and data table for 16 hues o00y to m75o

input: rgb ($\rightarrow olv^*$) $setrgbcolor$
output: no change compared to input



TUB registration: 20090901-IE55/IE55LONP.PDF/ .PS
application for output of visual display systems

TUB material: code=rha4ta

Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.004$

data for any colour:

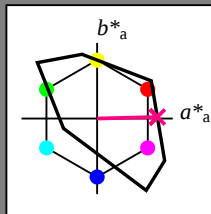
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = m50o$ $u^* = b79r$

triangle lightness t^*



TLS18a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 56 80 2

$LAB^*LCH^*_{Ma}$: 56 80 1

$lab^*olv^*_{Ma}$: 1.0 0.0 0.5

$lab^*rgb^*_{Ma}$: 1.0 0.0 0.42

triangle lightness t^*

% Gamut

$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

TLS18a; adapted (a) CIELAB data					
d*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	52.76	71.63	49.88	87.29	35 r14j
o25y	63.7	46.55	59.48	75.53	52 r39j
o50y	72.75	25.8	67.42	72.19	69 r65j
o75y	81.8	5.06	75.37	75.54	86 r90j
y00l	92.74	-20.03	84.97	87.3	103 j15g
y25l	90.85	-32.81	82.58	88.86	112 j27g
y50l	88.84	-46.36	80.04	92.5	120 j39g
y75l	86.61	-61.4	77.23	98.66	128 j51g
l00c	84.0	-78.99	73.94	108.2	137 j63g
l50c	86.2	-54.78	12.98	56.3	167 g04b
c00v	87.14	-44.42	-13.12	46.32	196 g31b
c50v	72.32	-13.05	-36.63	38.89	250 g80b
v00m	35.47	64.92	-95.07	115.12	304 b28r
v50m	47.77	77.67	-74.49	107.62	316 b39r
m00o	59.01	89.33	-55.68	105.26	328 b49r
m50o	55.59	79.65	2.03	79.68	1 b79r

