

Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.061$

data for any colour:

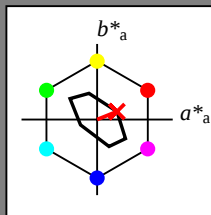
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = o00y$ $u^* = b96r$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 76 26 11

$LAB^*LCH^*_{Ma}$: 76 28 21

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

$lab^*rgb^*_{Ma}$: 1.0 0.0 0.06

triangle lightness t^*

% Gamut

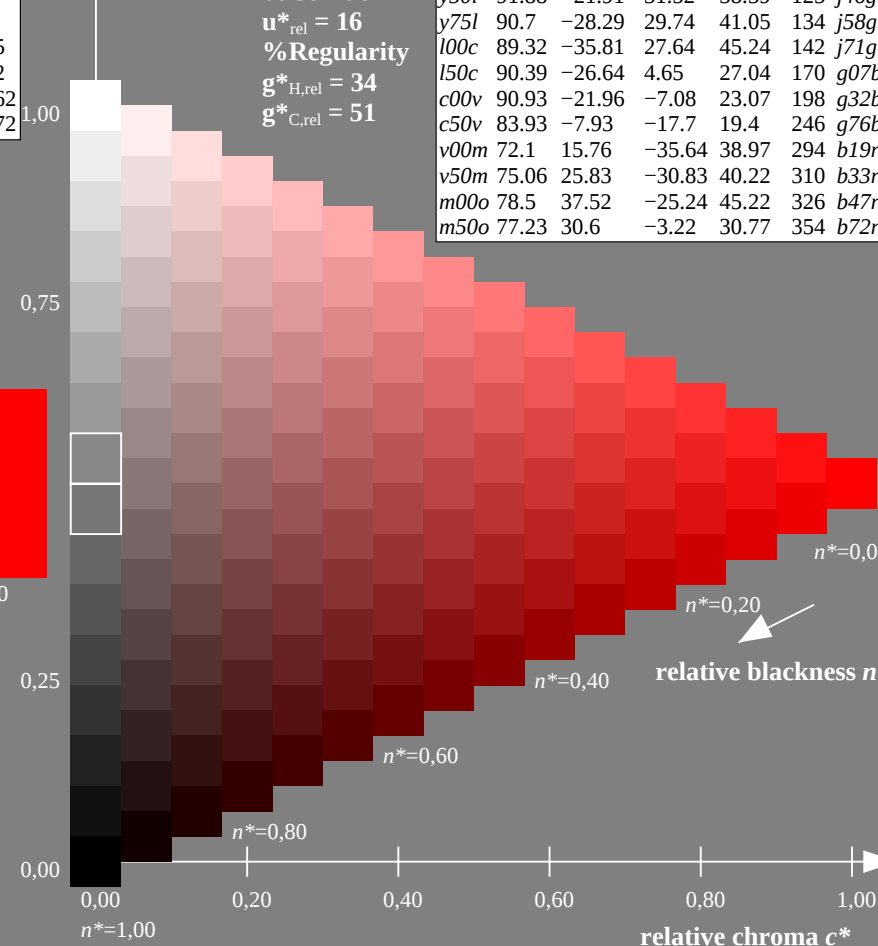
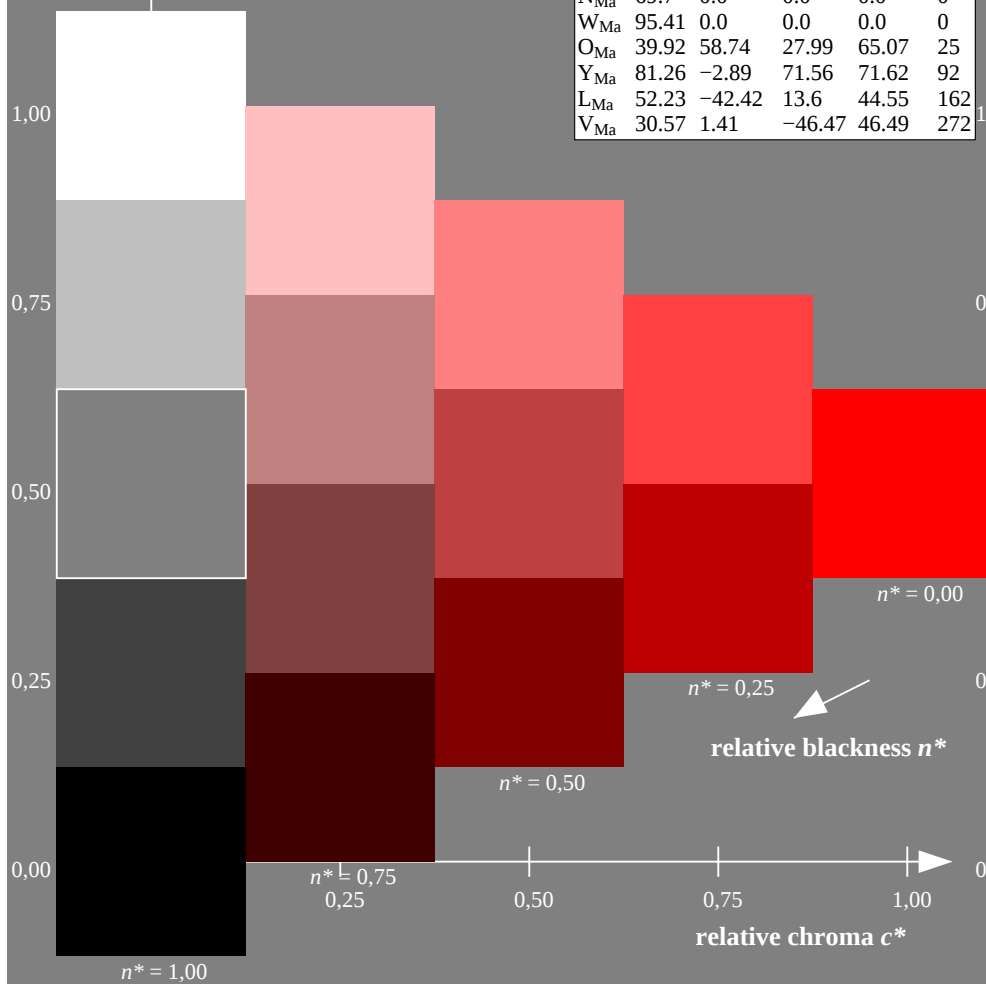
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
$o00y$	76.43	26.27	10.57	28.32	22 $b96r$
$o25y$	80.63	17.37	16.35	23.86	43 $r26j$
$o50y$	84.1	10.03	21.12	23.38	65 $r58j$
$o75y$	87.95	1.88	26.42	26.48	86 $r90j$
$y00l$	93.93	-10.77	34.63	36.27	107 $j21g$
$y25l$	92.93	-16.18	33.12	36.86	116 $j34g$
$y50l$	91.88	-21.91	31.52	38.39	125 $j46g$
$y75l$	90.7	-28.29	29.74	41.05	134 $j58g$
$l00c$	89.32	-35.81	27.64	45.24	142 $j71g$
$l50c$	90.39	-26.64	4.65	27.04	170 $g07b$
$c00v$	90.93	-21.96	-7.08	23.07	198 $g32b$
$c50v$	83.93	-7.93	-17.7	19.4	246 $g76b$
$v00m$	72.1	15.76	-35.64	38.97	294 $b19r$
$v50m$	75.06	25.83	-30.83	40.22	310 $b33r$
$m00o$	78.5	37.52	-25.24	45.22	326 $b47r$
$m50o$	77.23	30.6	-3.22	30.77	354 $b72r$



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.12$

data for any colour:

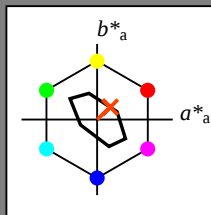
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = o25y$ $u^* = r26j$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 81 17 16

$LAB^*LCH^*_{Ma}$: 81 24 43

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

$lab^*rgb^*_{Ma}$: 1.0 0.27 0.0

triangle lightness t^*

% Gamut

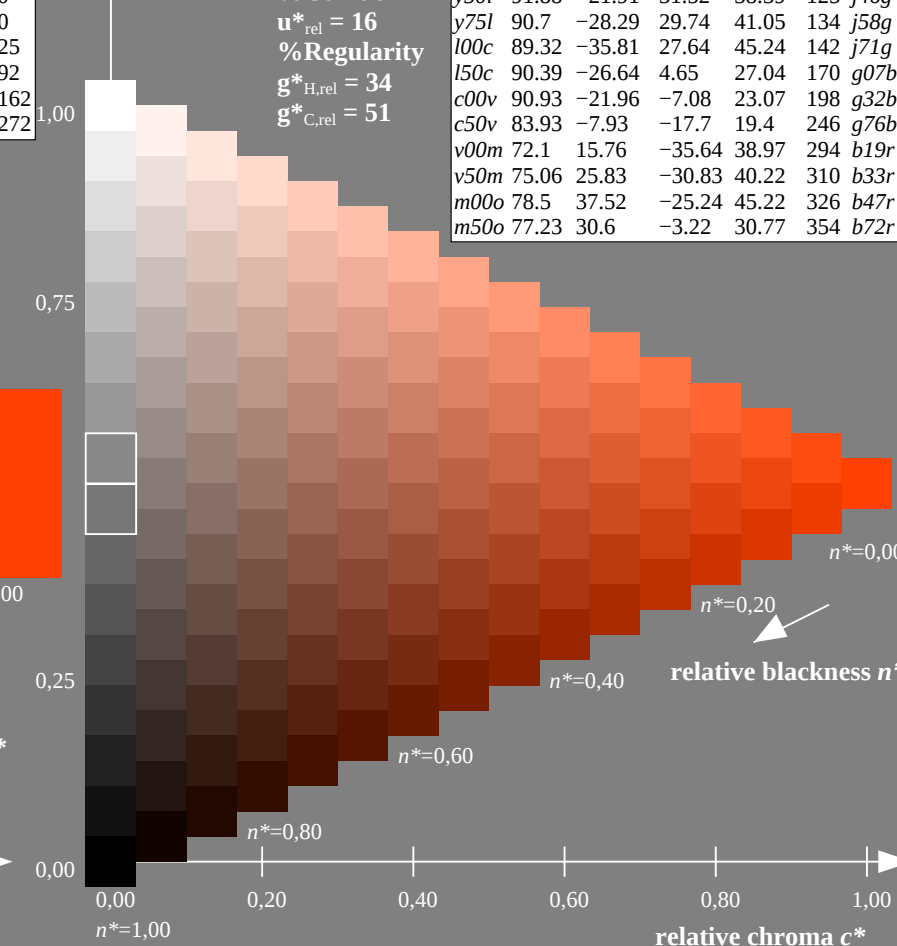
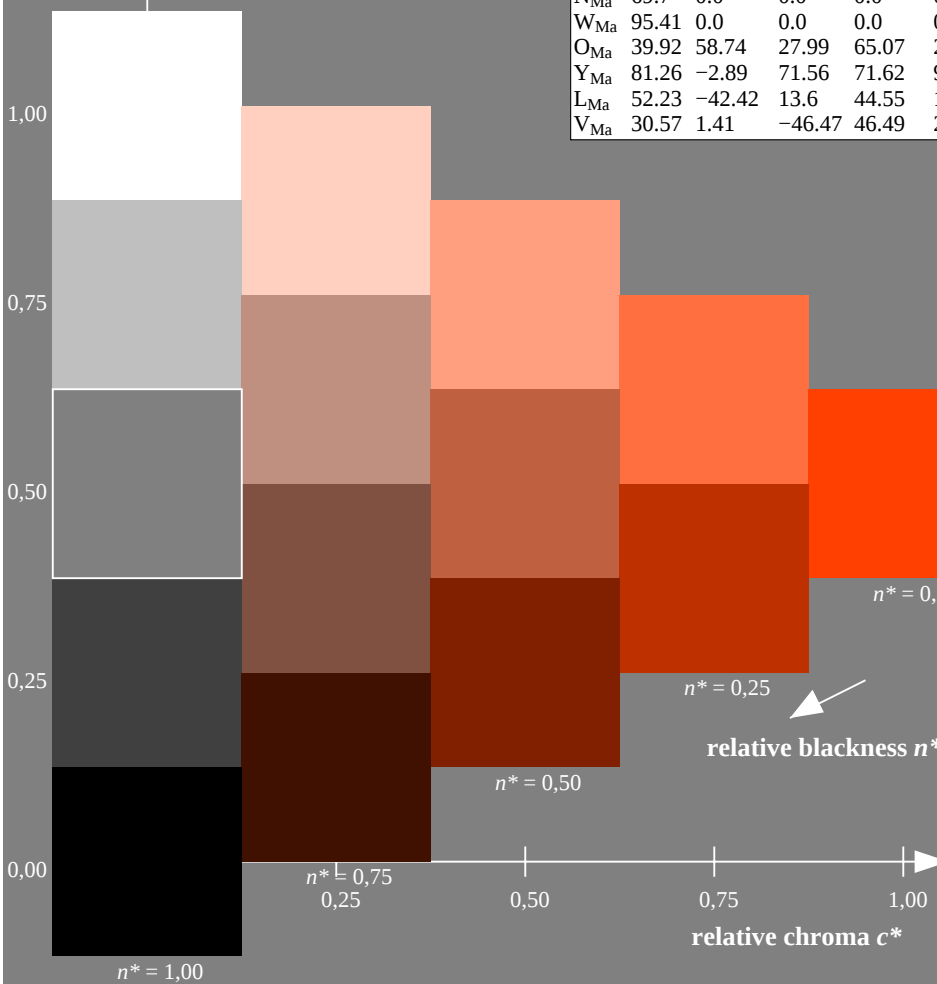
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
o00y	76.43	26.27	10.57	28.32	22
o25y	80.63	17.37	16.35	23.86	43
o50y	84.1	10.03	21.12	23.38	65
o75y	87.95	1.88	26.42	26.48	86
y00l	93.93	-10.77	34.63	36.27	107
y25l	92.93	-16.18	33.12	36.86	116
y50l	91.88	-21.91	31.52	38.39	125
y75l	90.7	-28.29	29.74	41.05	134
l00c	89.32	-35.81	27.64	45.24	142
l50c	90.39	-26.64	4.65	27.04	170
c00v	90.93	-21.96	-7.08	23.07	198
c50v	83.93	-7.93	-17.7	19.4	246
v00m	72.1	15.76	-35.64	38.97	294
v50m	75.06	25.83	-30.83	40.22	310
m00o	78.5	37.52	-25.24	45.22	326
m50o	77.23	30.6	-3.22	30.77	354



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.179$

data for any colour:

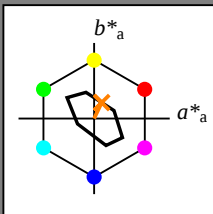
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = o50y$ $u^* = r58j$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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 10 21

$LAB^*LCH^*_{Ma}$: 84 23 64

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

$lab^*rgb^*_{Ma}$: 1.0 0.59 0.0

triangle lightness t^*

% Gamut

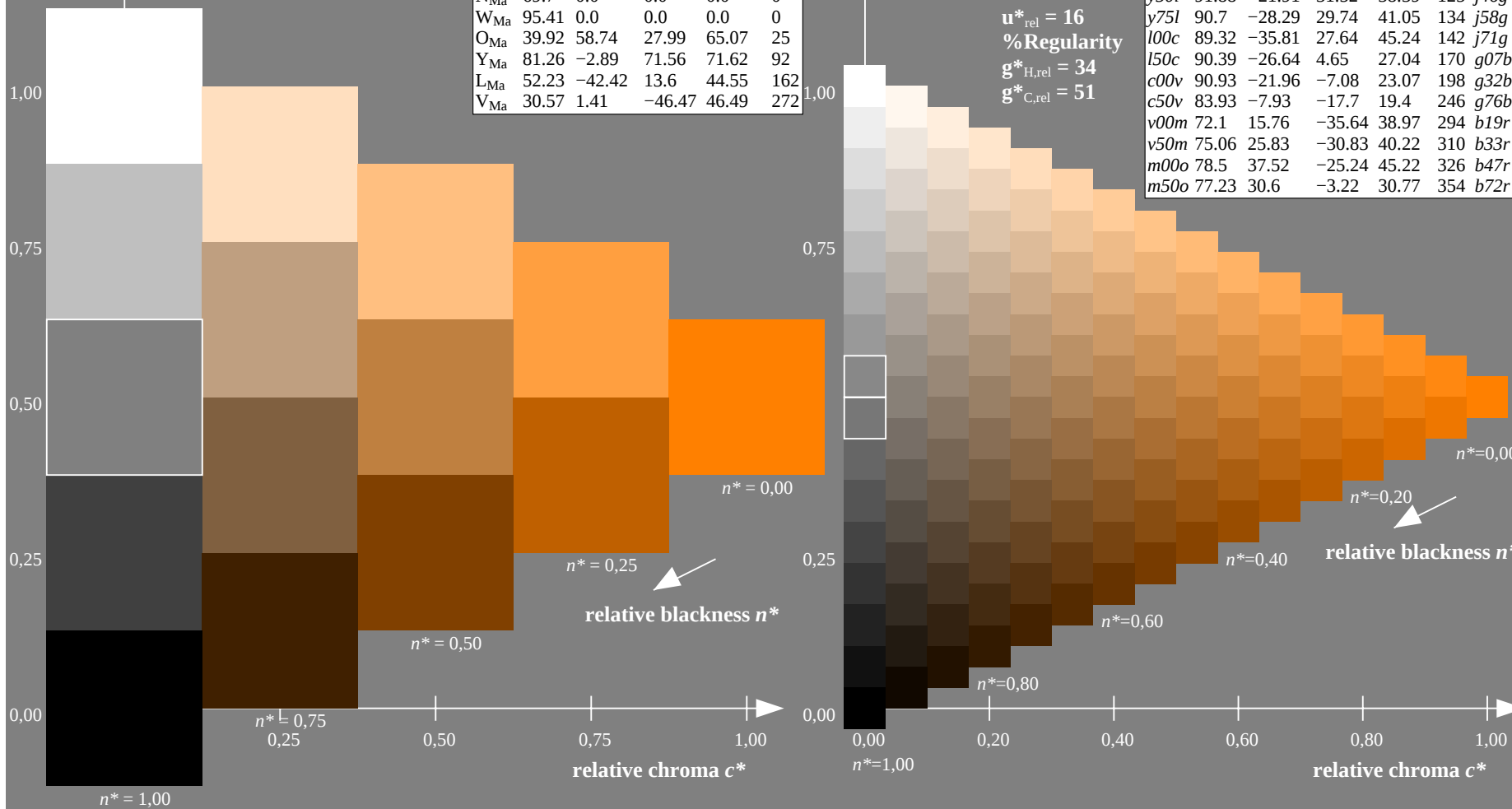
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	76.43	26.27	10.57	28.32	22 b96r
o25y	80.63	17.37	16.35	23.86	43 r26j
o50y	84.1	10.03	21.12	23.38	65 r58j
o75y	87.95	1.88	26.42	26.48	86 r90j
y00l	93.93	-10.77	34.63	36.27	107 j21g
y25l	92.93	-16.18	33.12	36.86	116 j34g
y50l	91.88	-21.91	31.52	38.39	125 j46g
y75l	90.7	-28.29	29.74	41.05	134 j58g
l00c	89.32	-35.81	27.64	45.24	142 j71g
l50c	90.39	-26.64	4.65	27.04	170 g07b
c00v	90.93	-21.96	-7.08	23.07	198 g32b
c50v	83.93	-7.93	-17.7	19.4	246 g76b
v00m	72.1	15.76	-35.64	38.97	294 b19r
v50m	75.06	25.83	-30.83	40.22	310 b33r
m00o	78.5	37.52	-25.24	45.22	326 b47r
m50o	77.23	30.6	-3.22	30.77	354 b72r



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.239$

data for any colour:

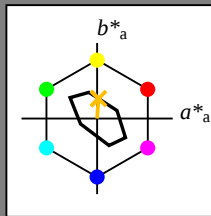
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

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

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 88 2 26

$LAB^*LCH^*_{Ma}$: 88 26 85

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

$lab^*rgb^*_{Ma}$: 1.0 0.9 0.0

triangle lightness t^*

% Gamut

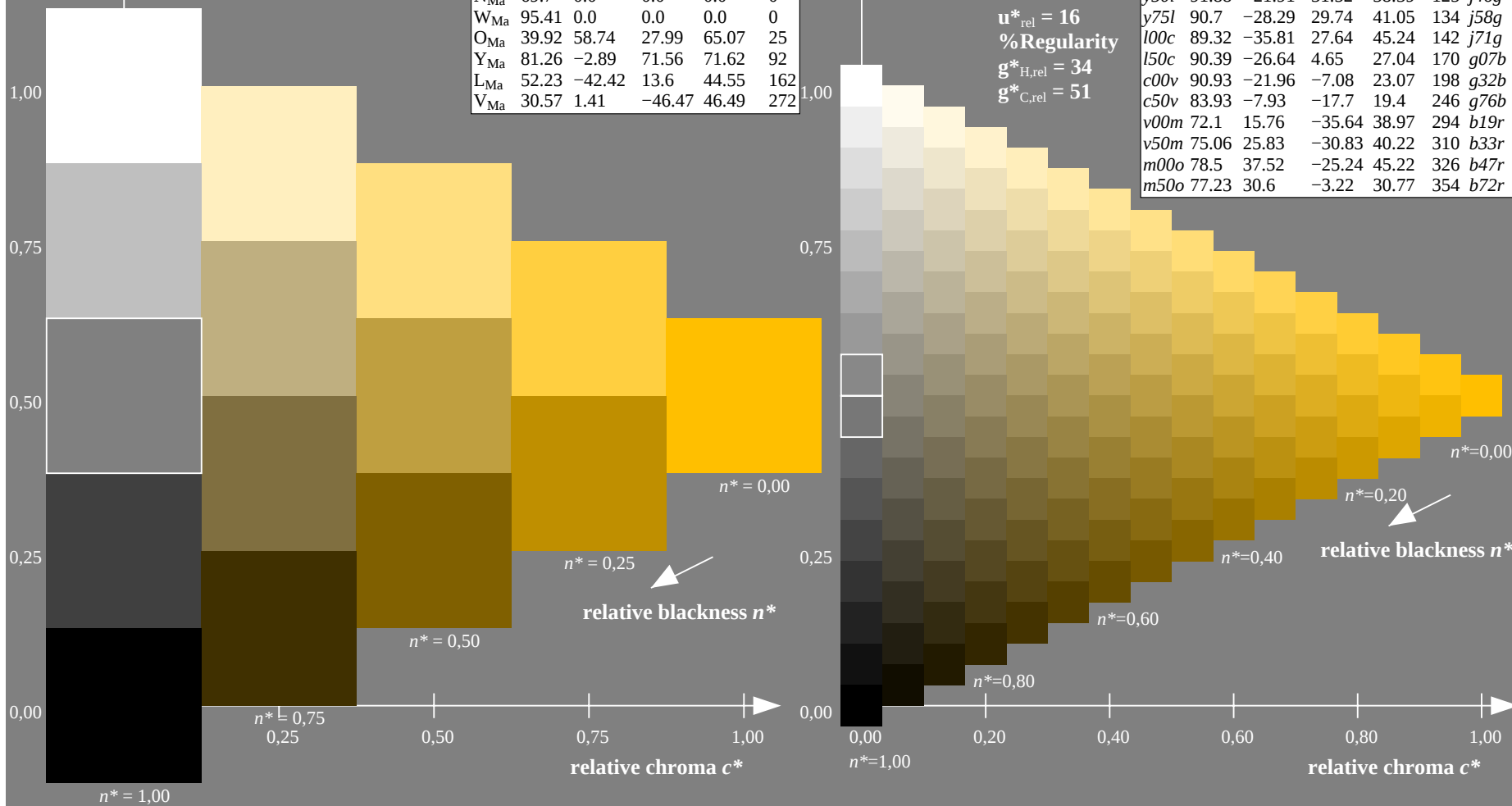
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data									
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*			
o00y	76.43	26.27	10.57	28.32	22	b96r			
o25y	80.63	17.37	16.35	23.86	43	r26j			
o50y	84.1	10.03	21.12	23.38	65	r58j			
o75y	87.95	1.88	26.42	26.48	86	r90j			
y00l	93.93	-10.77	34.63	36.27	107	j21g			
y25l	92.93	-16.18	33.12	36.86	116	j34g			
y50l	91.88	-21.91	31.52	38.39	125	j46g			
y75l	90.7	-28.29	29.74	41.05	134	j58g			
l00c	89.32	-35.81	27.64	45.24	142	j71g			
l50c	90.39	-26.64	4.65	27.04	170	g07b			
c00v	90.93	-21.96	-7.08	23.07	198	g32b			
c50v	83.93	-7.93	-17.7	19.4	246	g76b			
v00m	72.1	15.76	-35.64	38.97	294	b19r			
v50m	75.06	25.83	-30.83	40.22	310	b33r			
m00o	78.5	37.52	-25.24	45.22	326	b47r			
m50o	77.23	30.6	-3.22	30.77	354	b72r			



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.298$

data for any colour:

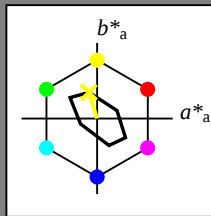
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y00l$ $u^* = j21g$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 94 -11 35

$LAB^*LCH^*_{Ma}$: 94 36 107

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

$lab^*rgb^*_{Ma}$: 0.79 1.0 0.0

triangle lightness t^*

% Gamut

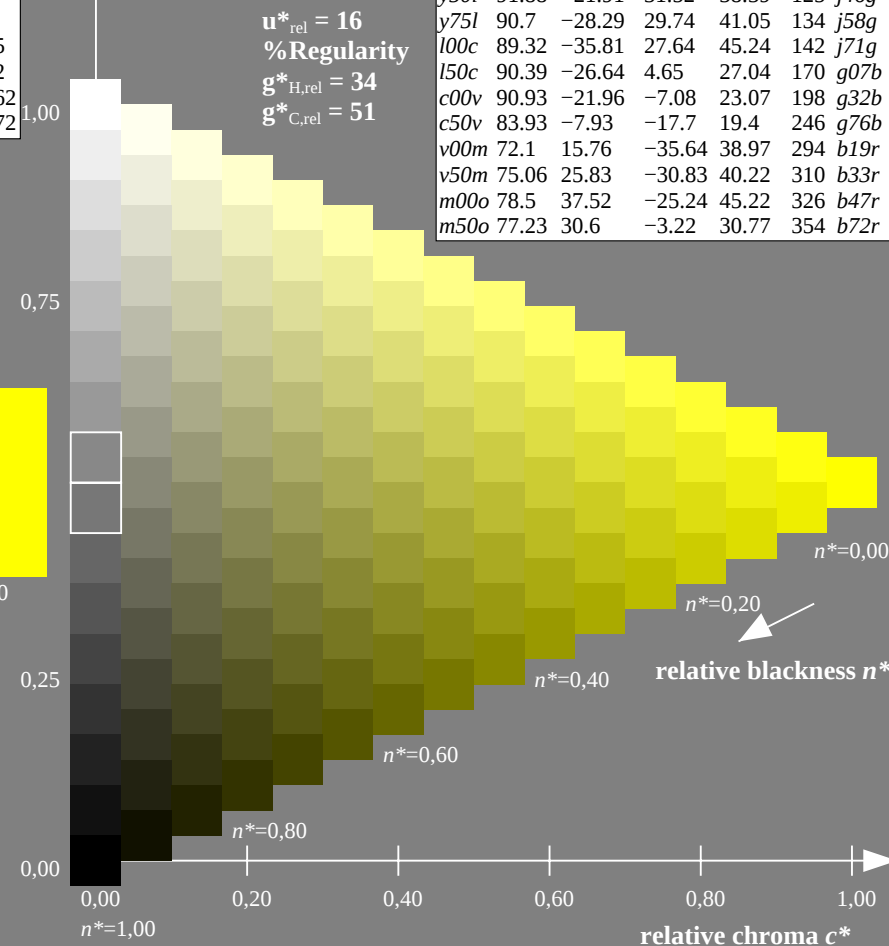
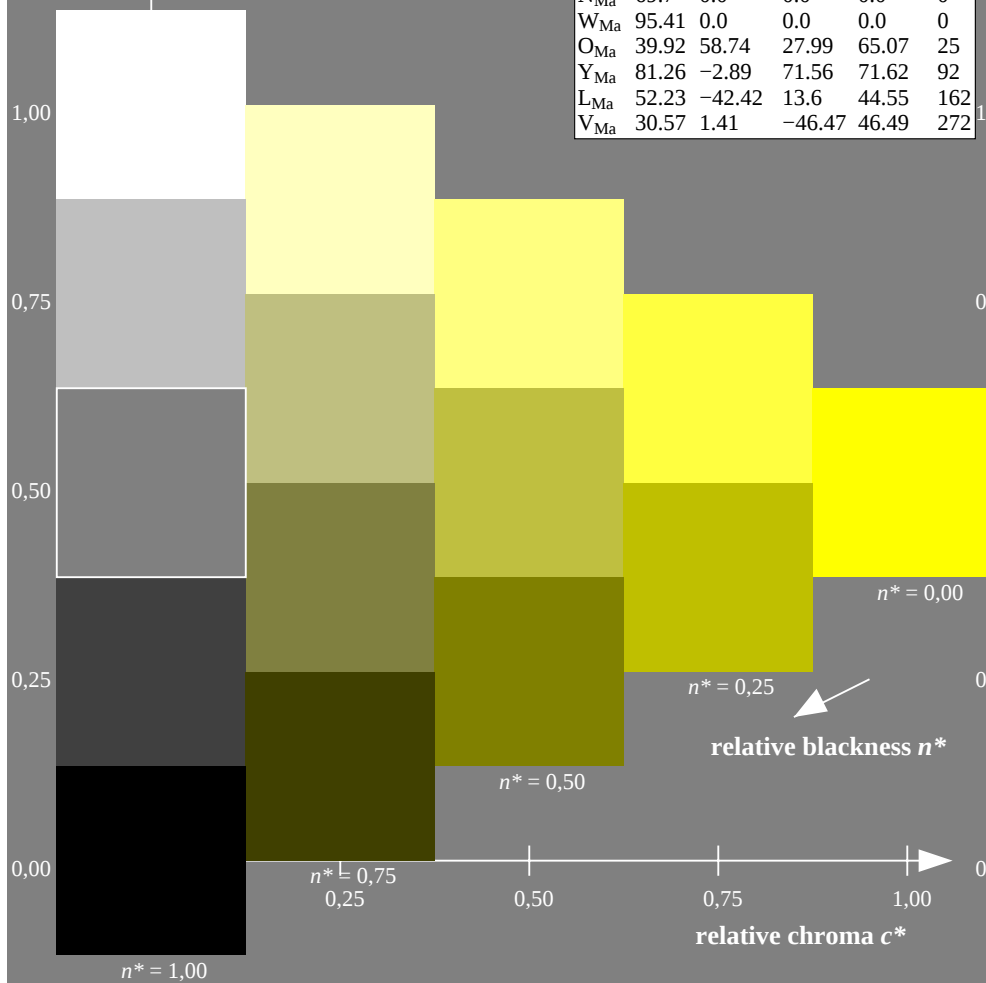
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data									
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*			
o00y	76.43	26.27	10.57	28.32	22	b96r			
o25y	80.63	17.37	16.35	23.86	43	r26j			
o50y	84.1	10.03	21.12	23.38	65	r58j			
o75y	87.95	1.88	26.42	26.48	86	r90j			
y00l	93.93	-10.77	34.63	36.27	107	j21g			
y25l	92.93	-16.18	33.12	36.86	116	j34g			
y50l	91.88	-21.91	31.52	38.39	125	j46g			
y75l	90.7	-28.29	29.74	41.05	134	j58g			
l00c	89.32	-35.81	27.64	45.24	142	j71g			
l50c	90.39	-26.64	4.65	27.04	170	g07b			
c00v	90.93	-21.96	-7.08	23.07	198	g32b			
c50v	83.93	-7.93	-17.7	19.4	246	g76b			
v00m	72.1	15.76	-35.64	38.97	294	b19r			
v50m	75.06	25.83	-30.83	40.22	310	b33r			
m00o	78.5	37.52	-25.24	45.22	326	b47r			
m50o	77.23	30.6	-3.22	30.77	354	b72r			



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.322$

data for any colour:

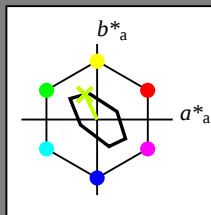
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y25l$ $u^* = j34g$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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 -16 33

$LAB^*LCH^*_{Ma}$: 93 37 116

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

$lab^*rgb^*_{Ma}$: 0.66 1.0 0.0

triangle lightness t^*

% Gamut

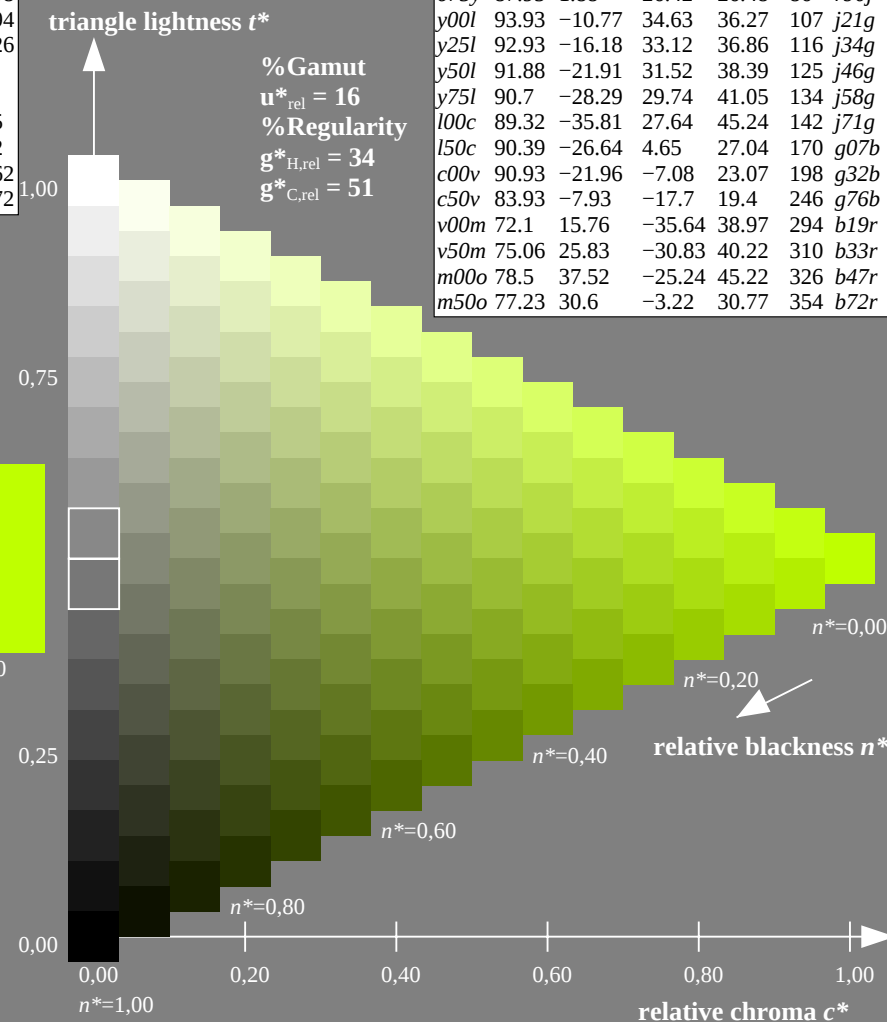
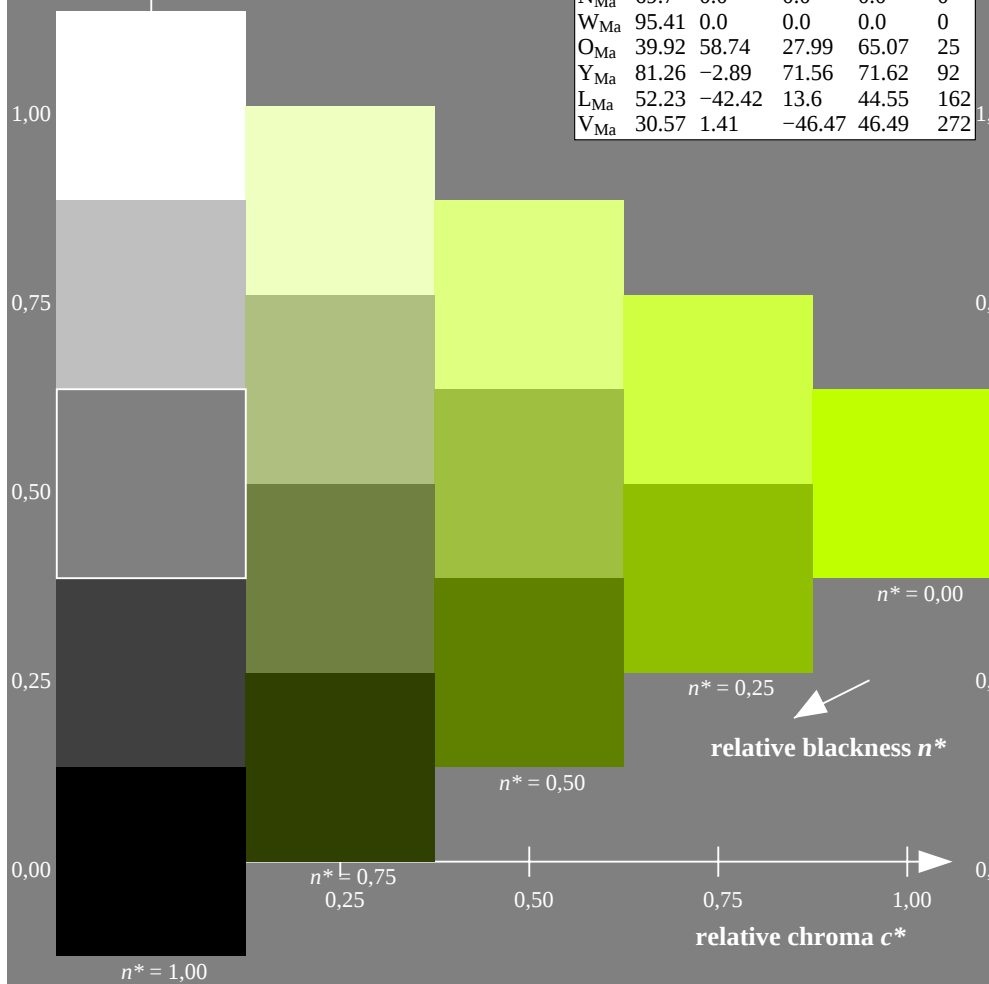
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data									
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*			
o00y	76.43	26.27	10.57	28.32	22	b96r			
o25y	80.63	17.37	16.35	23.86	43	r26j			
o50y	84.1	10.03	21.12	23.38	65	r58j			
o75y	87.95	1.88	26.42	26.48	86	r90j			
y00l	93.93	-10.77	34.63	36.27	107	j21g			
y25l	92.93	-16.18	33.12	36.86	116	j34g			
y50l	91.88	-21.91	31.52	38.39	125	j46g			
y75l	90.7	-28.29	29.74	41.05	134	j58g			
l00c	89.32	-35.81	27.64	45.24	142	j71g			
l50c	90.39	-26.64	4.65	27.04	170	g07b			
c00v	90.93	-21.96	-7.08	23.07	198	g32b			
c50v	83.93	-7.93	-17.7	19.4	246	g76b			
v00m	72.1	15.76	-35.64	38.97	294	b19r			
v50m	75.06	25.83	-30.83	40.22	310	b33r			
m00o	78.5	37.52	-25.24	45.22	326	b47r			
m50o	77.23	30.6	-3.22	30.77	354	b72r			



IE560-7N

Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.347$

data for any colour:

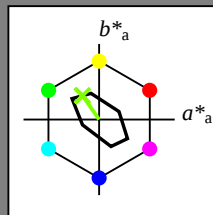
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y50l$ $u^* = j46g$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 92 -22 32

$LAB^*LCH^*_{Ma}$: 92 38 124

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

$lab^*rgb^*_{Ma}$: 0.54 1.0 0.0

triangle lightness t^*

% Gamut

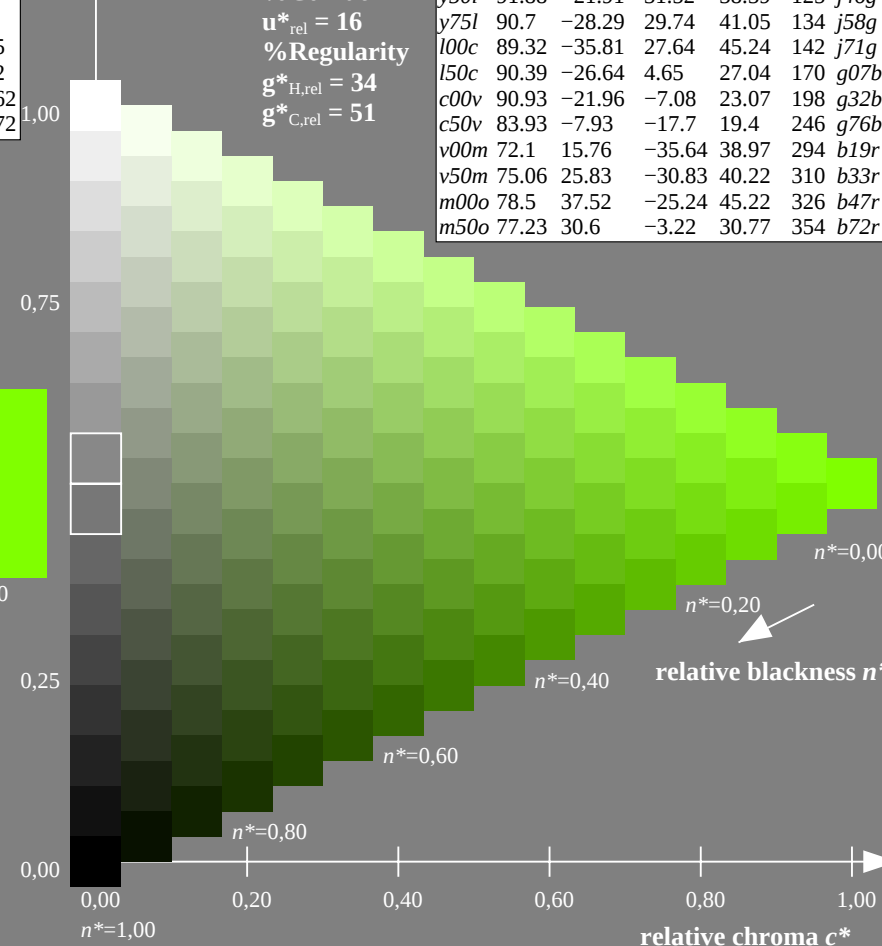
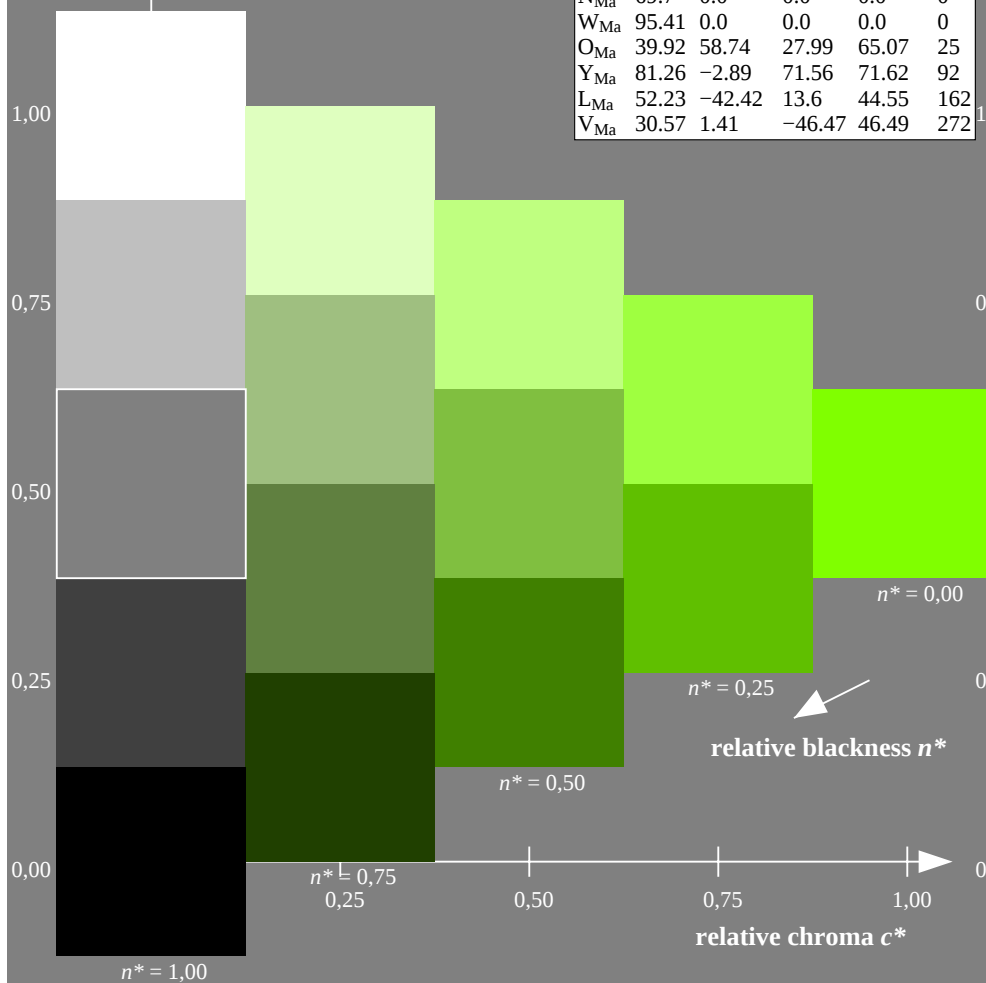
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
o00y	76.43	26.27	10.57	28.32	22
o25y	80.63	17.37	16.35	23.86	43
o50y	84.1	10.03	21.12	23.38	65
o75y	87.95	1.88	26.42	26.48	86
y00l	93.93	-10.77	34.63	36.27	107
y25l	92.93	-16.18	33.12	36.86	116
y50l	91.88	-21.91	31.52	38.39	125
y75l	90.7	-28.29	29.74	41.05	134
l00c	89.32	-35.81	27.64	45.24	142
l50c	90.39	-26.64	4.65	27.04	170
c00v	90.93	-21.96	-7.08	23.07	198
c50v	83.93	-7.93	-17.7	19.4	246
v00m	72.1	15.76	-35.64	38.97	294
v50m	75.06	25.83	-30.83	40.22	310
m00o	78.5	37.52	-25.24	45.22	326
m50o	77.23	30.6	-3.22	30.77	354



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.371$

data for any colour:

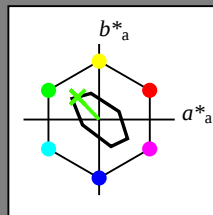
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = y75l$ $u^* = j58g$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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 -28 30

$LAB^*LCH^*_{Ma}$: 91 41 133

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

$lab^*rgb^*_{Ma}$: 0.41 1.0 0.0

triangle lightness t^*

% Gamut

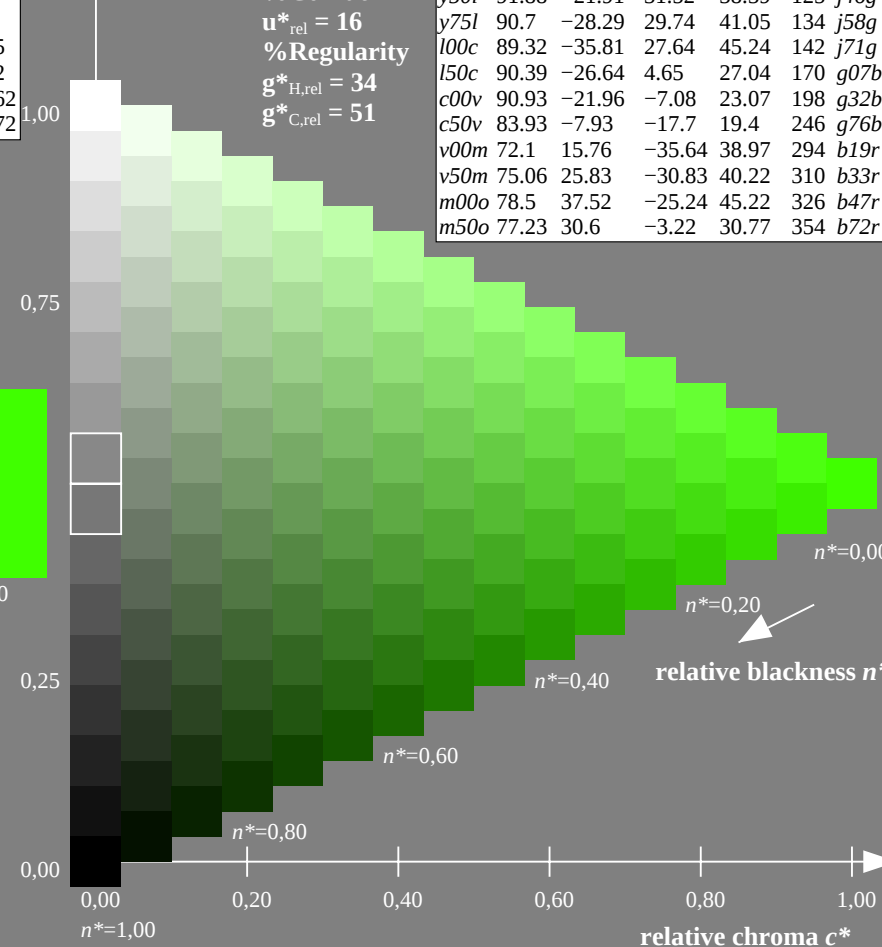
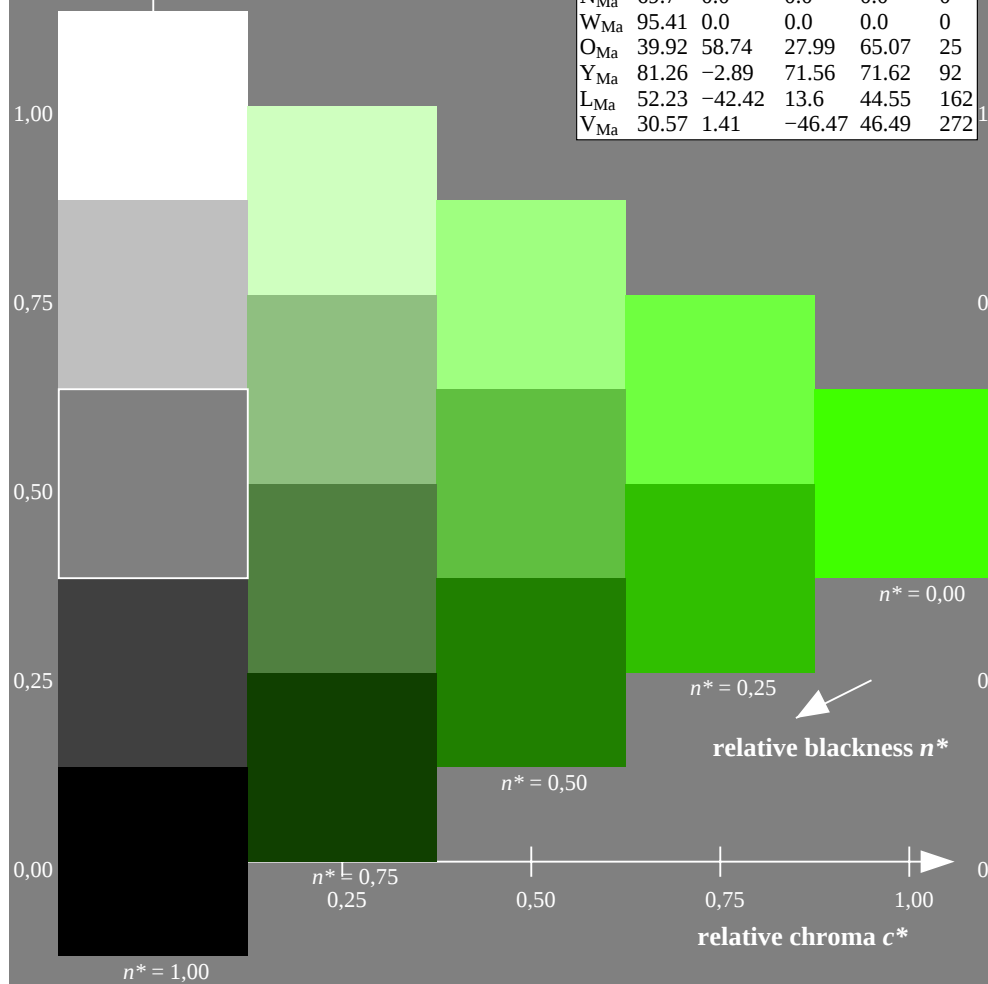
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	76.43	26.27	10.57	28.32	22 b96r
o25y	80.63	17.37	16.35	23.86	43 r26j
o50y	84.1	10.03	21.12	23.38	65 r58j
o75y	87.95	1.88	26.42	26.48	86 r90j
y00l	93.93	-10.77	34.63	36.27	107 j21g
y25l	92.93	-16.18	33.12	36.86	116 j34g
y50l	91.88	-21.91	31.52	38.39	125 j46g
y75l	90.7	-28.29	29.74	41.05	134 j58g
l00c	89.32	-35.81	27.64	45.24	142 j71g
l50c	90.39	-26.64	4.65	27.04	170 g07b
c00v	90.93	-21.96	-7.08	23.07	198 g32b
c50v	83.93	-7.93	-17.7	19.4	246 g76b
v00m	72.1	15.76	-35.64	38.97	294 b19r
v50m	75.06	25.83	-30.83	40.22	310 b33r
m00o	78.5	37.52	-25.24	45.22	326 b47r
m50o	77.23	30.6	-3.22	30.77	354 b72r



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.395$

data for any colour:

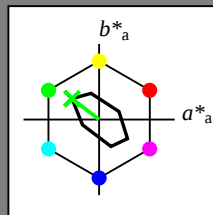
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = 100c$ $u^* = j71g$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 89 -36 28

$LAB^*LCH^*_{Ma}$: 89 45 142

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

$lab^*rgb^*_{Ma}$: 0.28 1.0 0.0

triangle lightness t^*

% Gamut

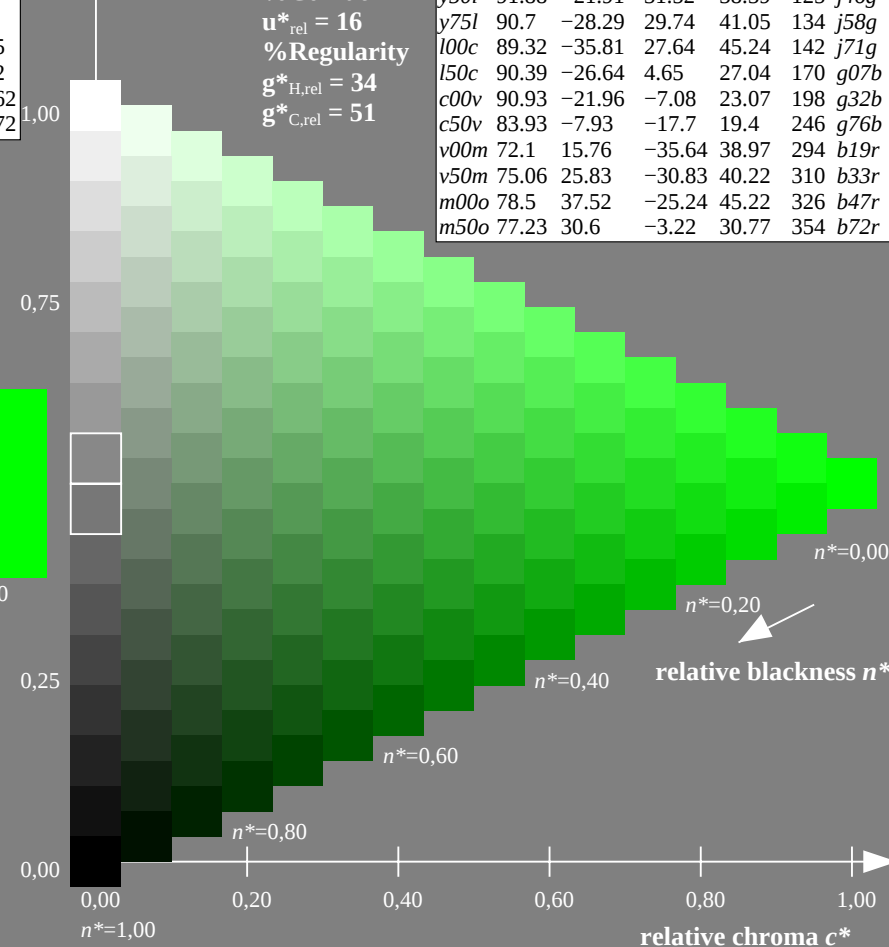
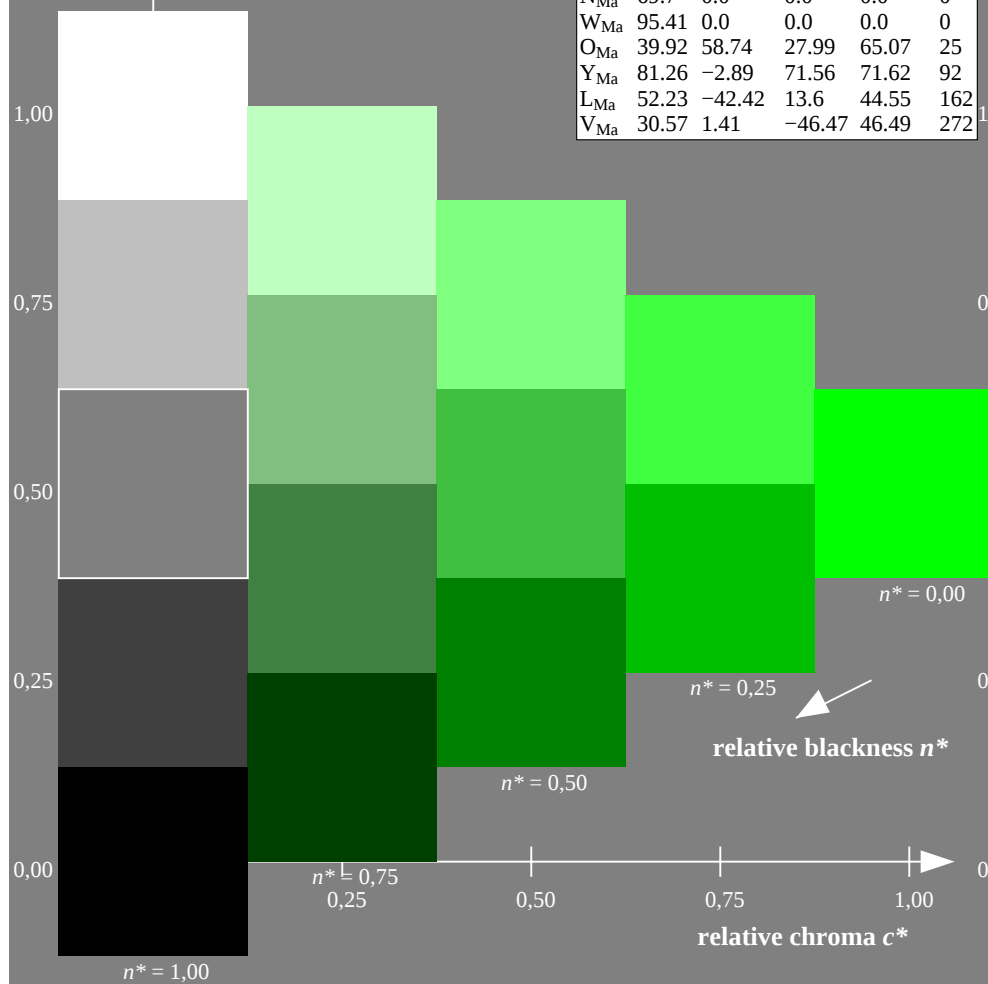
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	76.43	26.27	10.57	28.32	22 b96r
o25y	80.63	17.37	16.35	23.86	43 r26j
o50y	84.1	10.03	21.12	23.38	65 r58j
o75y	87.95	1.88	26.42	26.48	86 r90j
y00l	93.93	-10.77	34.63	36.27	107 j21g
y25l	92.93	-16.18	33.12	36.86	116 j34g
y50l	91.88	-21.91	31.52	38.39	125 j46g
y75l	90.7	-28.29	29.74	41.05	134 j58g
l00c	89.32	-35.81	27.64	45.24	142 j71g
l50c	90.39	-26.64	4.65	27.04	170 g07b
c00v	90.93	-21.96	-7.08	23.07	198 g32b
c50v	83.93	-7.93	-17.7	19.4	246 g76b
v00m	72.1	15.76	-35.64	38.97	294 b19r
v50m	75.06	25.83	-30.83	40.22	310 b33r
m00o	78.5	37.52	-25.24	45.22	326 b47r
m50o	77.23	30.6	-3.22	30.77	354 b72r



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.473$

data for any colour:

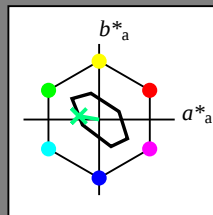
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = l50c$ $u^* = g07b$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 90 -27 5

$LAB^*LCH^*_{Ma}$: 90 27 170

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

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

triangle lightness t^*

% Gamut

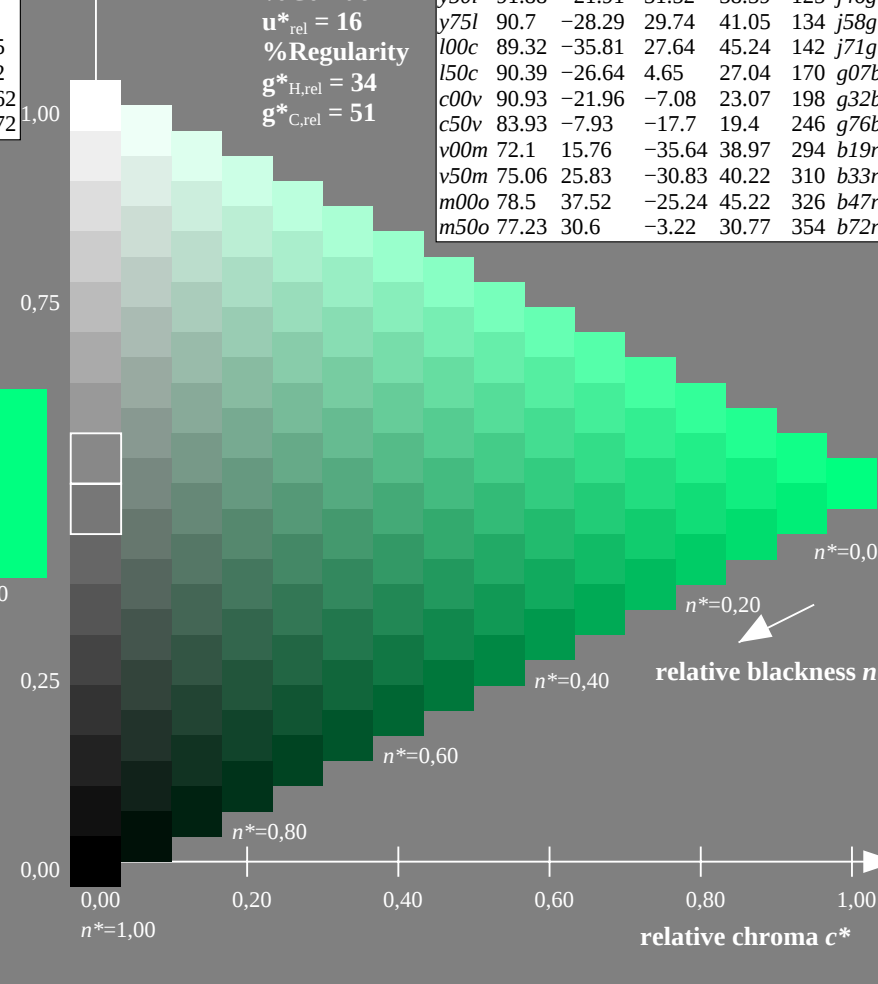
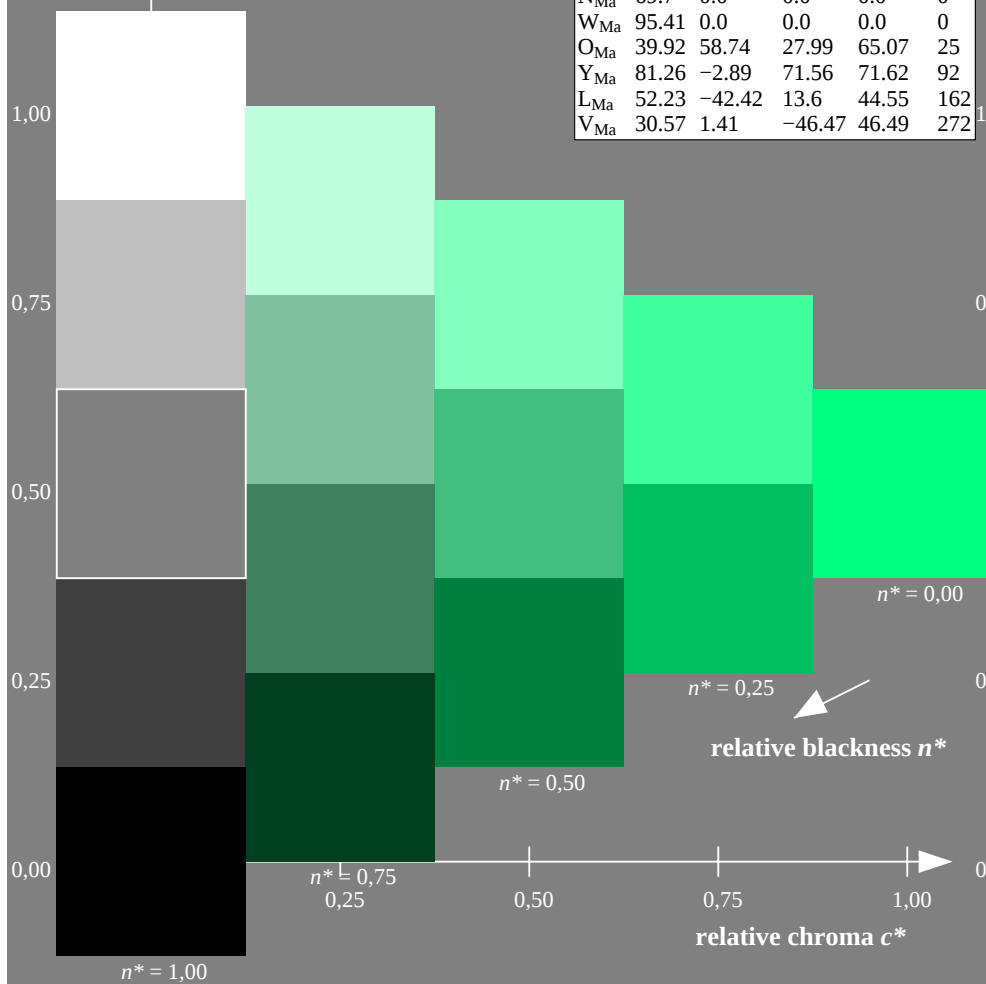
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
o00y	76.43	26.27	10.57	28.32	22
o25y	80.63	17.37	16.35	23.86	43
o50y	84.1	10.03	21.12	23.38	65
o75y	87.95	1.88	26.42	26.48	86
y00l	93.93	-10.77	34.63	36.27	107
y25l	92.93	-16.18	33.12	36.86	116
y50l	91.88	-21.91	31.52	38.39	125
y75l	90.7	-28.29	29.74	41.05	134
l00c	89.32	-35.81	27.64	45.24	142
l50c	90.39	-26.64	4.65	27.04	170
c00v	90.93	-21.96	-7.08	23.07	198
c50v	83.93	-7.93	-17.7	19.4	246
v00m	72.1	15.76	-35.64	38.97	294
v50m	75.06	25.83	-30.83	40.22	310
m00o	78.5	37.52	-25.24	45.22	326
m50o	77.23	30.6	-3.22	30.77	354



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.55$

data for any colour:

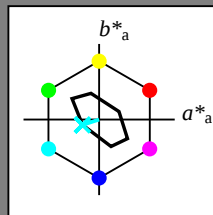
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = c00v$ $u^* = g32b$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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 -22 -7

$LAB^*LCH^*_{Ma}$: 91 23 197

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

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

triangle lightness t^*

% Gamut

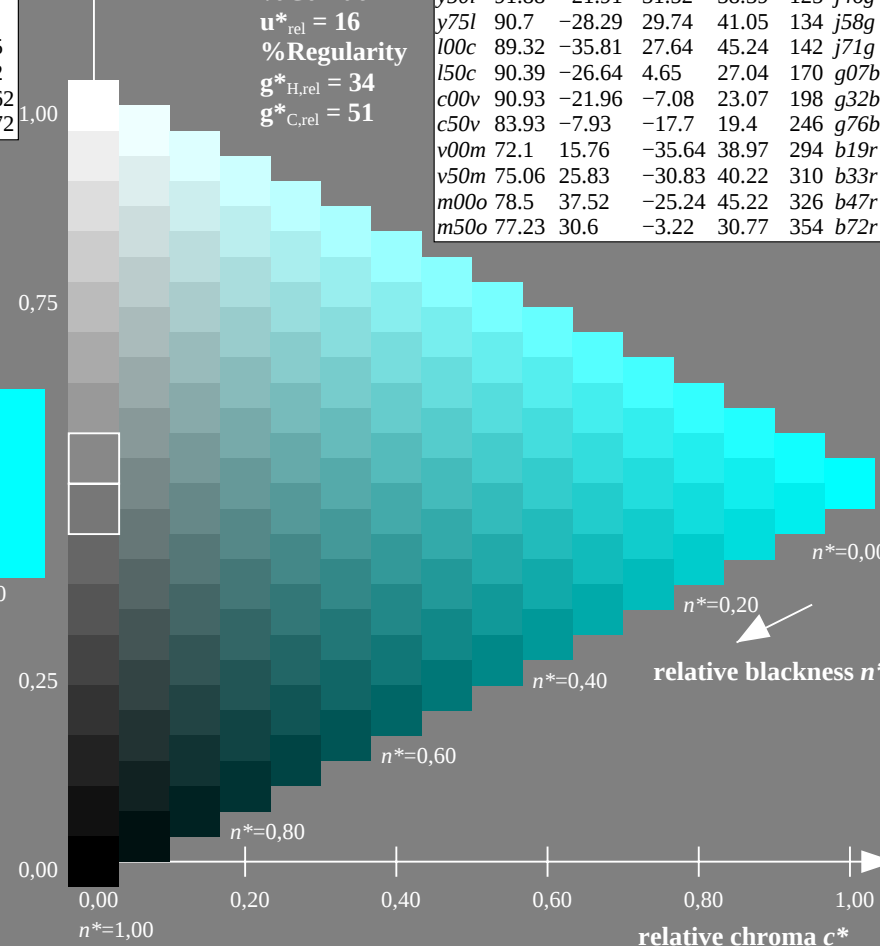
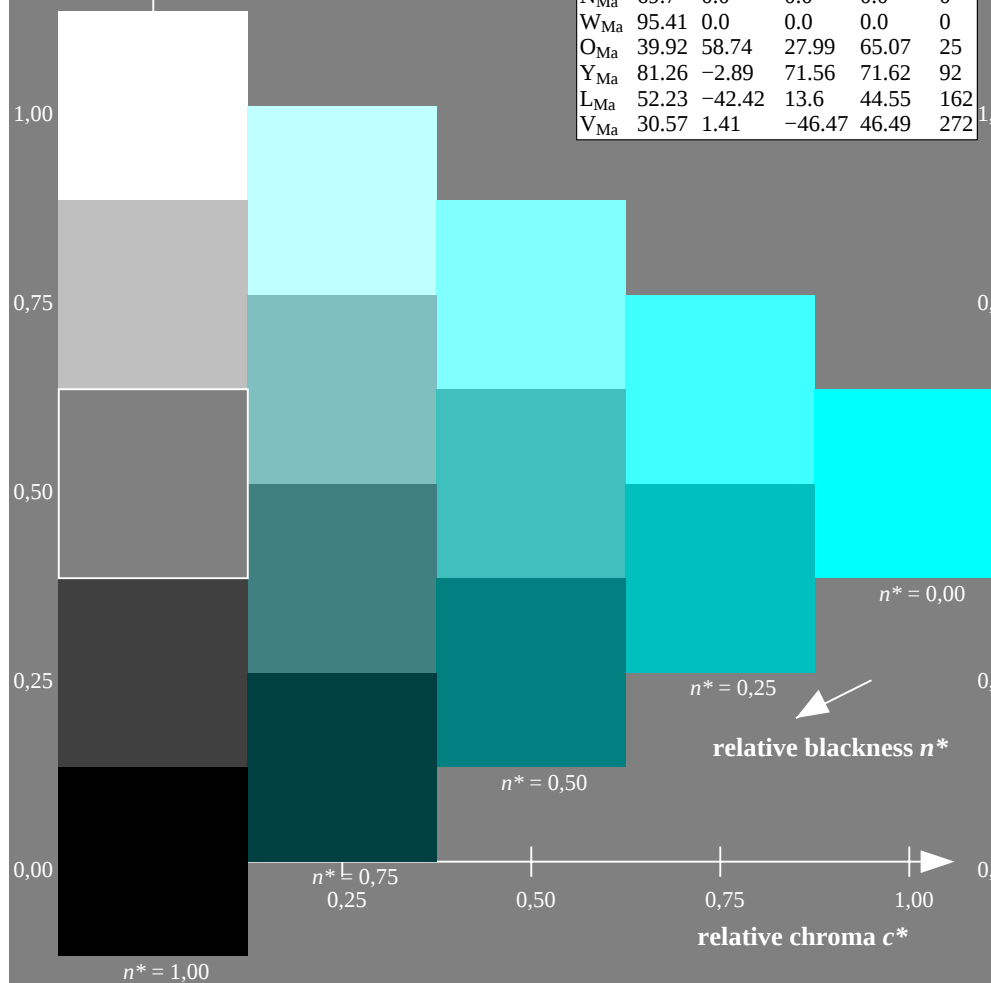
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data							
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*	
o00y	76.43	26.27	10.57	28.32	22	b96r	
o25y	80.63	17.37	16.35	23.86	43	r26j	
o50y	84.1	10.03	21.12	23.38	65	r58j	
o75y	87.95	1.88	26.42	26.48	86	r90j	
y00l	93.93	-10.77	34.63	36.27	107	j21g	
y25l	92.93	-16.18	33.12	36.86	116	j34g	
y50l	91.88	-21.91	31.52	38.39	125	j46g	
y75l	90.7	-28.29	29.74	41.05	134	j58g	
l00c	89.32	-35.81	27.64	45.24	142	j71g	
l50c	90.39	-26.64	4.65	27.04	170	g07b	
c00v	90.93	-21.96	-7.08	23.07	198	g32b	
c50v	83.93	-7.93	-17.7	19.4	246	g76b	
v00m	72.1	15.76	-35.64	38.97	294	b19r	
v50m	75.06	25.83	-30.83	40.22	310	b33r	
m00o	78.5	37.52	-25.24	45.22	326	b47r	
m50o	77.23	30.6	-3.22	30.77	354	b72r	



IE560-7N

Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.683$

data for any colour:

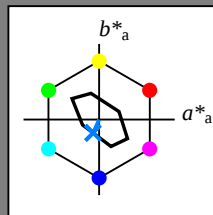
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = c50v$ $u^* = g76b$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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 -8 -18

$LAB^*LCH^*_{Ma}$: 84 19 245

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

$lab^*rgb^*_{Ma}$: 0.0 0.47 1.0

triangle lightness t^*

% Gamut

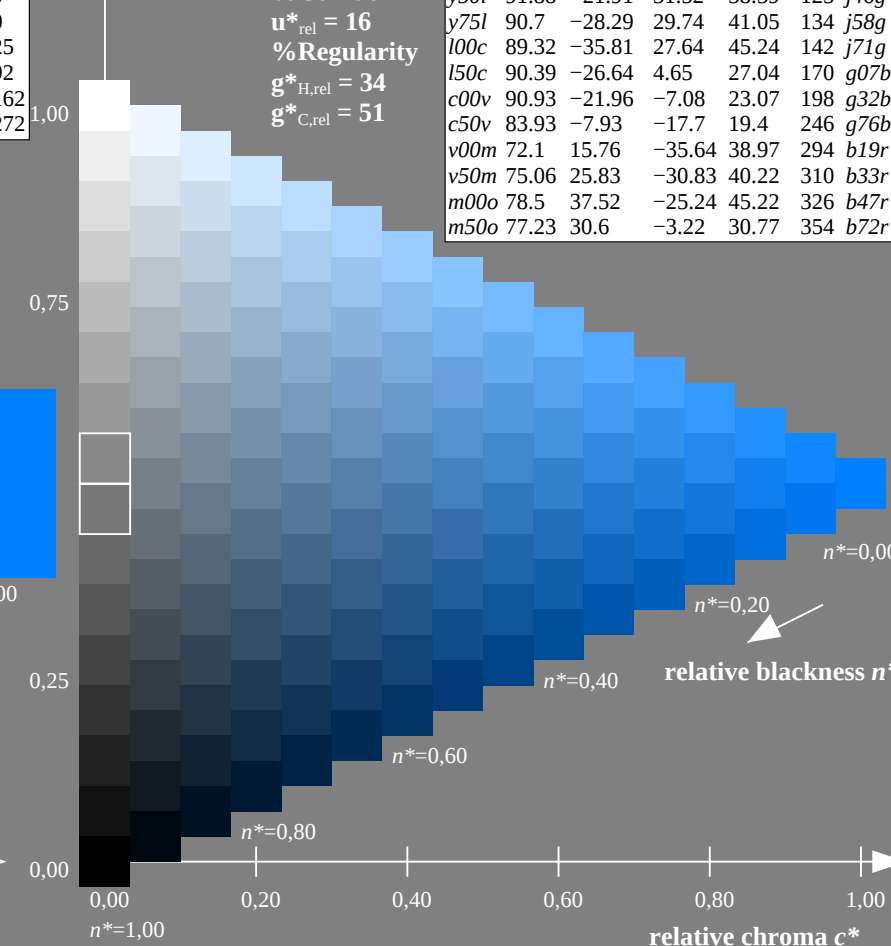
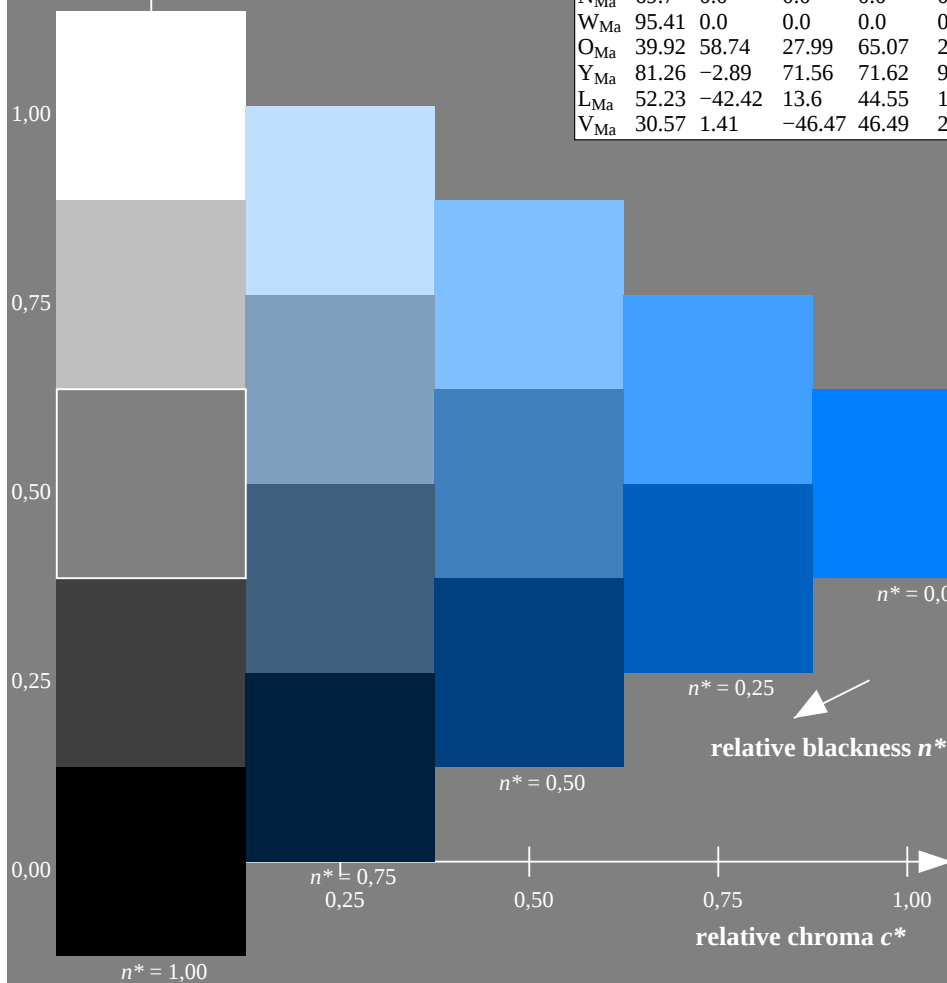
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data									
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*			
o00y	76.43	26.27	10.57	28.32	22	b96r			
o25y	80.63	17.37	16.35	23.86	43	r26j			
o50y	84.1	10.03	21.12	23.38	65	r58j			
o75y	87.95	1.88	26.42	26.48	86	r90j			
y00l	93.93	-10.77	34.63	36.27	107	j21g			
y25l	92.93	-16.18	33.12	36.86	116	j34g			
y50l	91.88	-21.91	31.52	38.39	125	j46g			
y75l	90.7	-28.29	29.74	41.05	134	j58g			
l00c	89.32	-35.81	27.64	45.24	142	j71g			
l50c	90.39	-26.64	4.65	27.04	170	g07b			
c00v	90.93	-21.96	-7.08	23.07	198	g32b			
c50v	83.93	-7.93	-17.7	19.4	246	g76b			
v00m	72.1	15.76	-35.64	38.97	294	b19r			
v50m	75.06	25.83	-30.83	40.22	310	b33r			
m00o	78.5	37.52	-25.24	45.22	326	b47r			
m50o	77.23	30.6	-3.22	30.77	354	b72r			



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.816$

data for any colour:

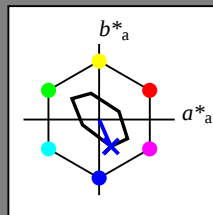
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = v00m$ $u^* = b19r$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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 16 -36

$LAB^*LCH^*_{Ma}$: 72 39 293

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

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

triangle lightness t^*

% Gamut

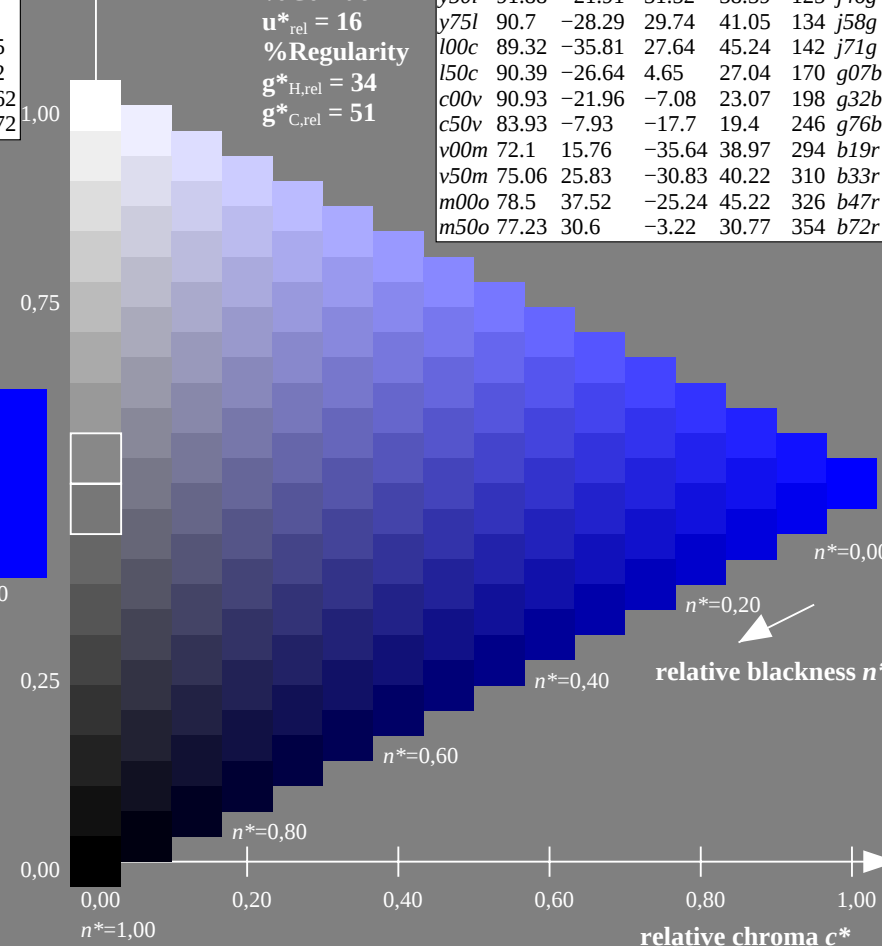
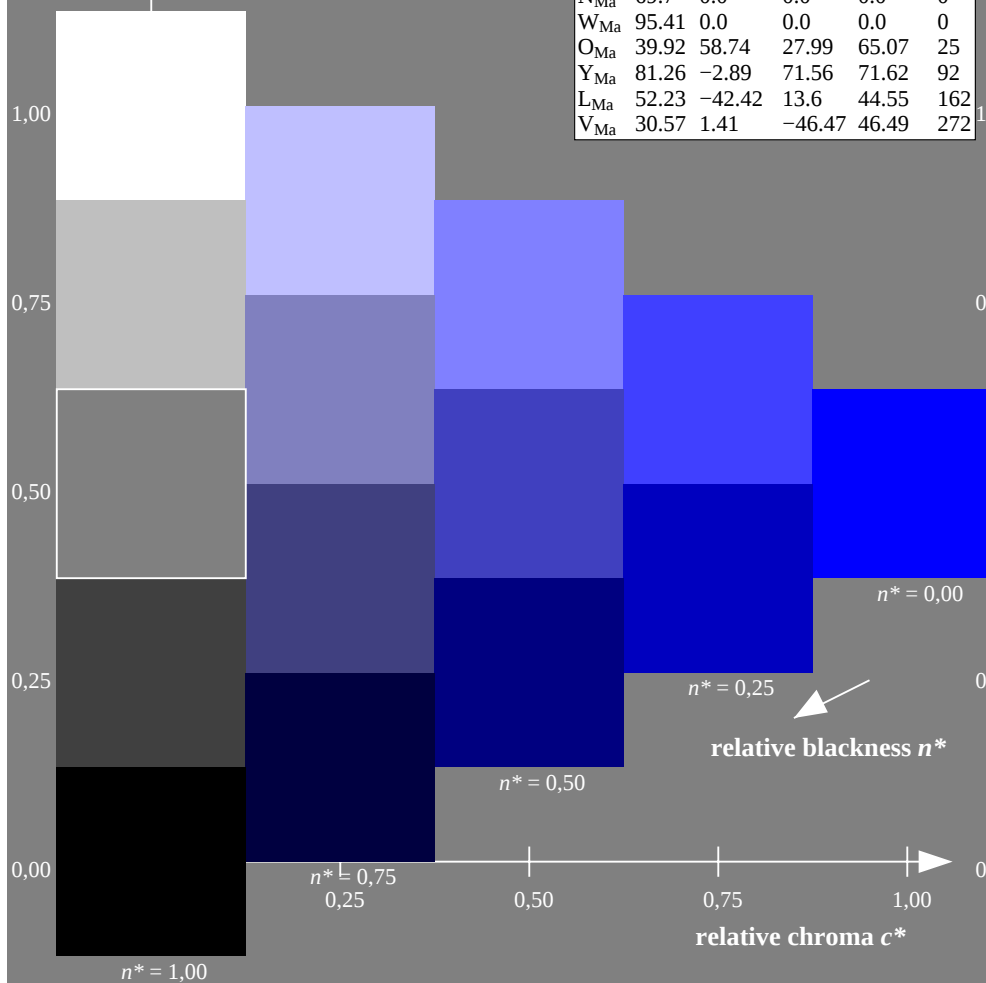
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

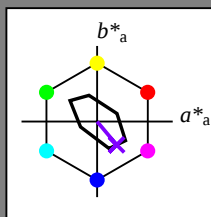
$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data									
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*			
o00y	76.43	26.27	10.57	28.32	22	b96r			
o25y	80.63	17.37	16.35	23.86	43	r26j			
o50y	84.1	10.03	21.12	23.38	65	r58j			
o75y	87.95	1.88	26.42	26.48	86	r90j			
y00l	93.93	-10.77	34.63	36.27	107	j21g			
y25l	92.93	-16.18	33.12	36.86	116	j34g			
y50l	91.88	-21.91	31.52	38.39	125	j46g			
y75l	90.7	-28.29	29.74	41.05	134	j58g			
l00c	89.32	-35.81	27.64	45.24	142	j71g			
l50c	90.39	-26.64	4.65	27.04	170	g07b			
c00v	90.93	-21.96	-7.08	23.07	198	g32b			
c50v	83.93	-7.93	-17.7	19.4	246	g76b			
v00m	72.1	15.76	-35.64	38.97	294	b19r			
v50m	75.06	25.83	-30.83	40.22	310	b33r			
m00o	78.5	37.52	-25.24	45.22	326	b47r			
m50o	77.23	30.6	-3.22	30.77	354	b72r			



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.861$ data for any colour: Data for maximum colour (Ma):

lab⁺tch* and *lab*⁺ncu**
device and elementary
hue text:
d = v50m* *u* = b33r**



<i>Name</i>	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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}: 75 26 -31

LAB*LCH*Ma: 75 40 309

lab*olv*_Ma: 0.5 0.0 1.0

lab*rqb*_Ma: 0.67 0.0 1.0

triangle lightness t^*

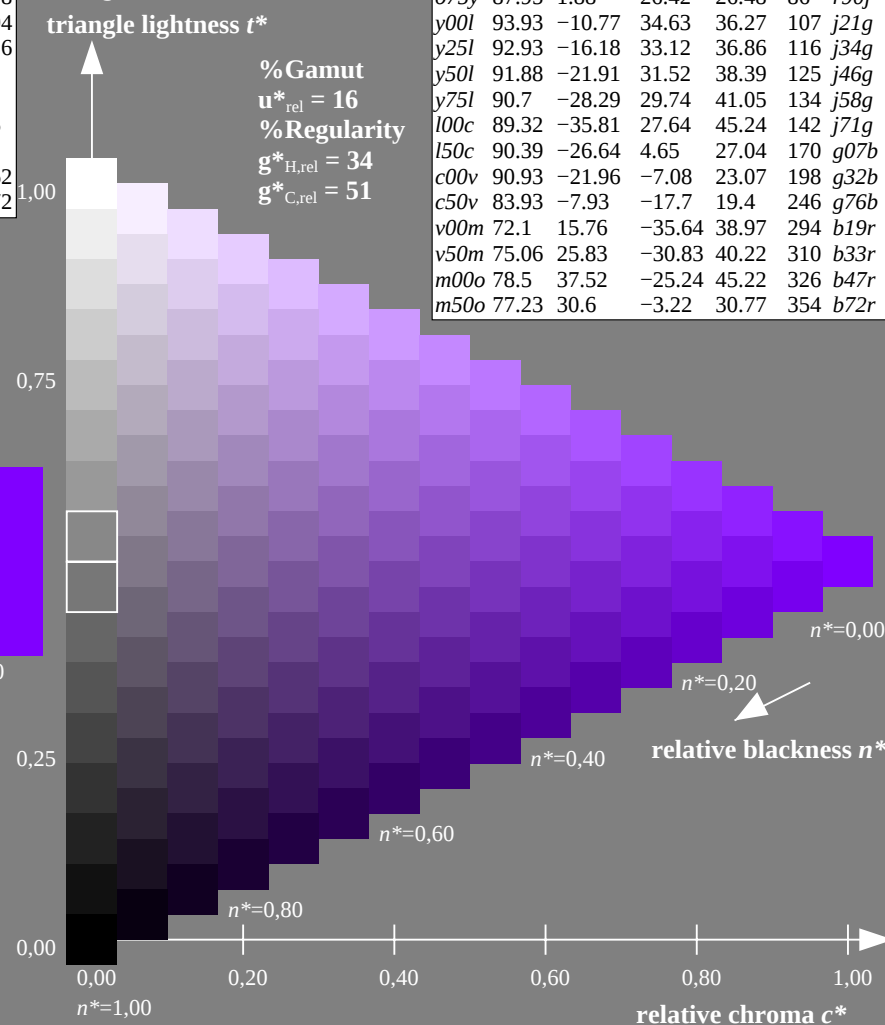
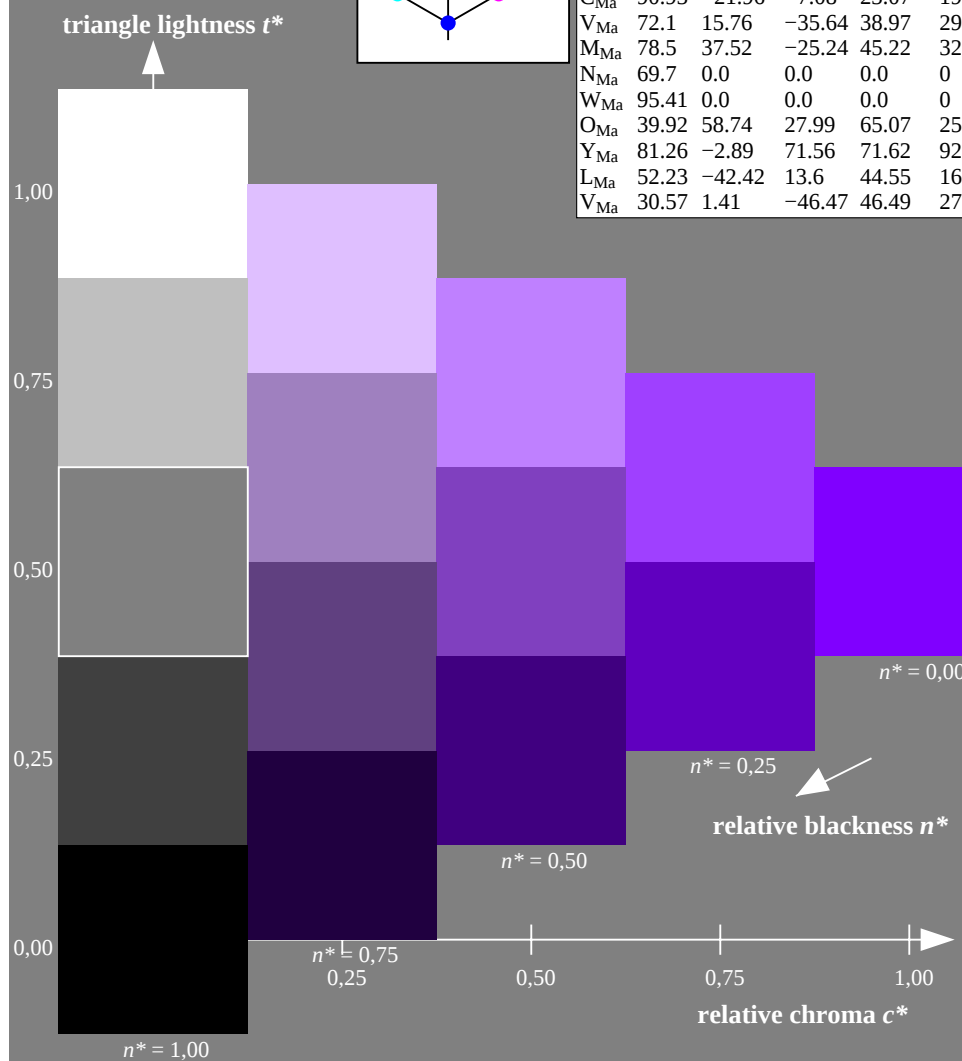
% Gamut

$$\mathbf{u}_{\text{rel}}^* = 16$$

%Regularity

$$g^*_{H,rel} = 34$$
$$g^*_{C,rel} = 51$$

TLS70a; adapted (a) CIELAB data							
d^*	$L^*=L_a^*$	a_a^*	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$	u^*	
<i>o00y</i>	76.43	26.27	10.57	28.32	22	<i>b96r</i>	
<i>o25y</i>	80.63	17.37	16.35	23.86	43	<i>r26j</i>	
<i>o50y</i>	84.1	10.03	21.12	23.38	65	<i>r58j</i>	
<i>o75y</i>	87.95	1.88	26.42	26.48	86	<i>r90j</i>	
<i>y00l</i>	93.93	-10.77	34.63	36.27	107	<i>j21g</i>	
<i>y25l</i>	92.93	-16.18	33.12	36.86	116	<i>j34g</i>	
<i>y50l</i>	91.88	-21.91	31.52	38.39	125	<i>j46g</i>	
<i>y75l</i>	90.7	-28.29	29.74	41.05	134	<i>j58g</i>	
<i>l00c</i>	89.32	-35.81	27.64	45.24	142	<i>j71g</i>	
<i>l50c</i>	90.39	-26.64	4.65	27.04	170	<i>g07b</i>	
<i>c00v</i>	90.93	-21.96	-7.08	23.07	198	<i>g32b</i>	
<i>c50v</i>	83.93	-7.93	-17.7	19.4	246	<i>g76b</i>	
<i>v00m</i>	72.1	15.76	-35.64	38.97	294	<i>b19r</i>	
<i>v50m</i>	75.06	25.83	-30.83	40.22	310	<i>b33r</i>	
<i>m00o</i>	78.5	37.52	-25.24	45.22	326	<i>b47r</i>	
<i>m50o</i>	77.23	30.6	-3.22	30.77	354	<i>b72r</i>	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.906$

data for any colour:

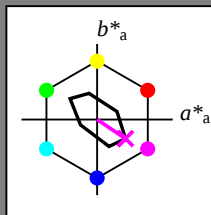
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = m00o$ $u^* = b47r$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 78 38 -25

$LAB^*LCH^*_{Ma}$: 78 45 326

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

$lab^*rgb^*_{Ma}$: 0.96 0.0 1.0

triangle lightness t^*

% Gamut

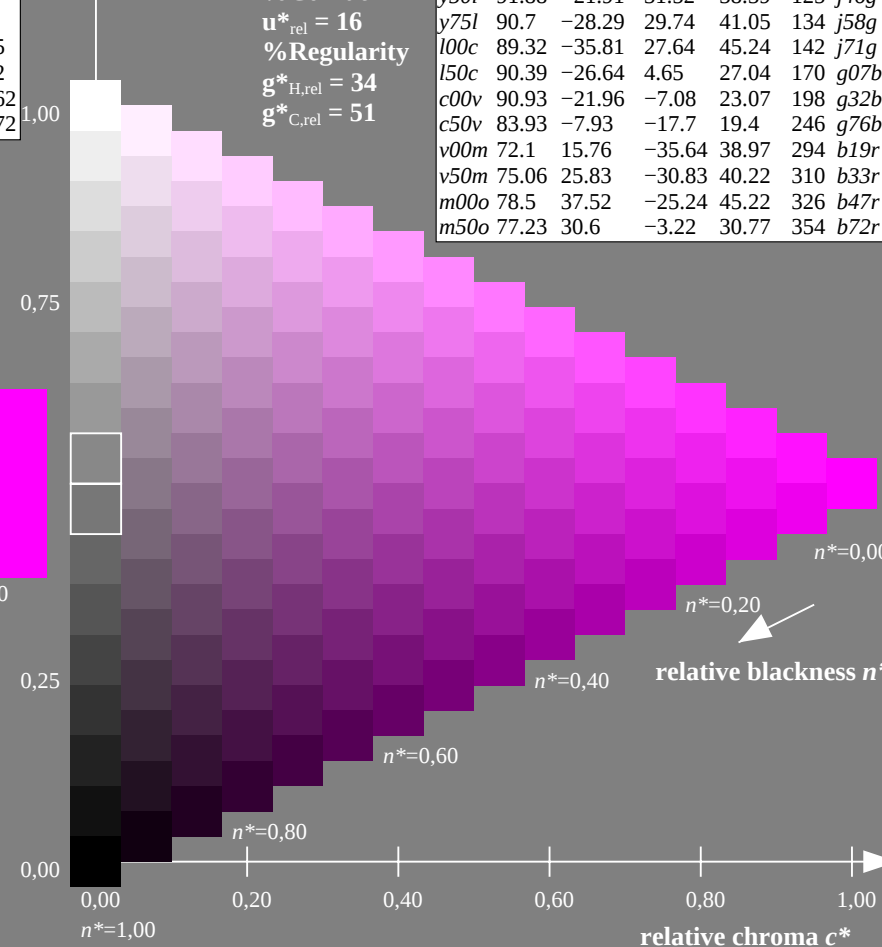
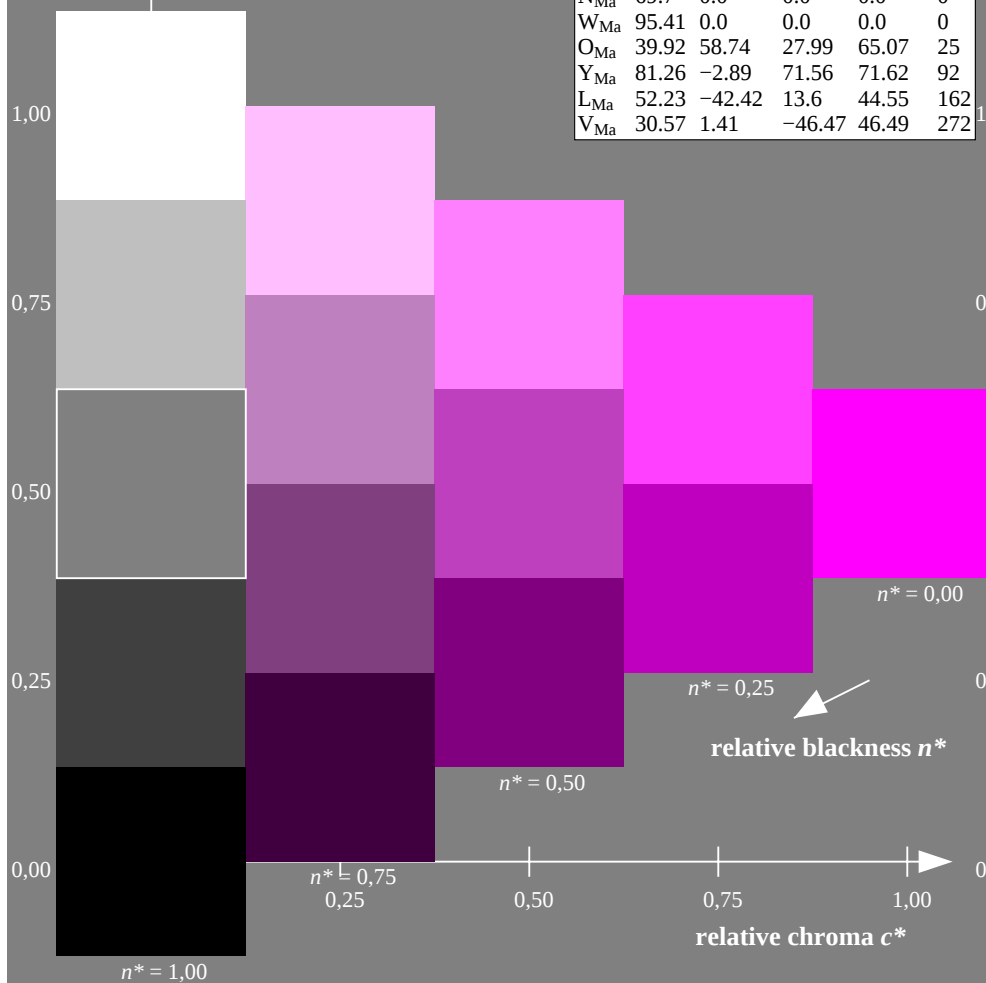
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	76.43	26.27	10.57	28.32	22 b96r
o25y	80.63	17.37	16.35	23.86	43 r26j
o50y	84.1	10.03	21.12	23.38	65 r58j
o75y	87.95	1.88	26.42	26.48	86 r90j
y00l	93.93	-10.77	34.63	36.27	107 j21g
y25l	92.93	-16.18	33.12	36.86	116 j34g
y50l	91.88	-21.91	31.52	38.39	125 j46g
y75l	90.7	-28.29	29.74	41.05	134 j58g
l00c	89.32	-35.81	27.64	45.24	142 j71g
l50c	90.39	-26.64	4.65	27.04	170 g07b
c00v	90.93	-21.96	-7.08	23.07	198 g32b
c50v	83.93	-7.93	-17.7	19.4	246 g76b
v00m	72.1	15.76	-35.64	38.97	294 b19r
v50m	75.06	25.83	-30.83	40.22	310 b33r
m00o	78.5	37.52	-25.24	45.22	326 b47r
m50o	77.23	30.6	-3.22	30.77	354 b72r



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.983$

data for any colour:

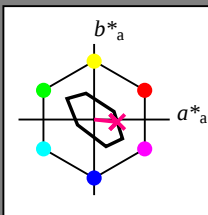
lab^*tch^* and lab^*ncu^*

device and elementary

hue text:

$d^* = m50o$ $u^* = b72r$

triangle lightness t^*



TLS70a; adapted (a) CIELAB data					
Name	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	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):

$LAB^*LAB^*_{Ma}$: 77 31 -3

$LAB^*LCH^*_{Ma}$: 77 31 353

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

$lab^*rgb^*_{Ma}$: 1.0 0.0 0.55

triangle lightness t^*

% Gamut

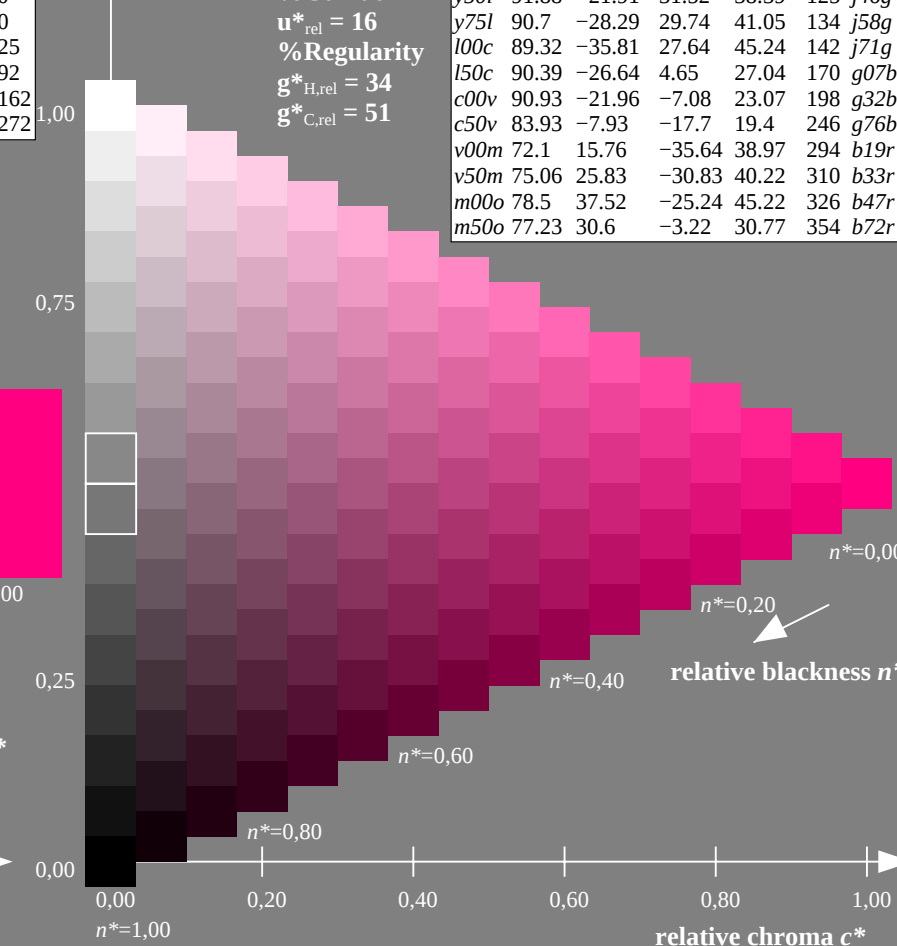
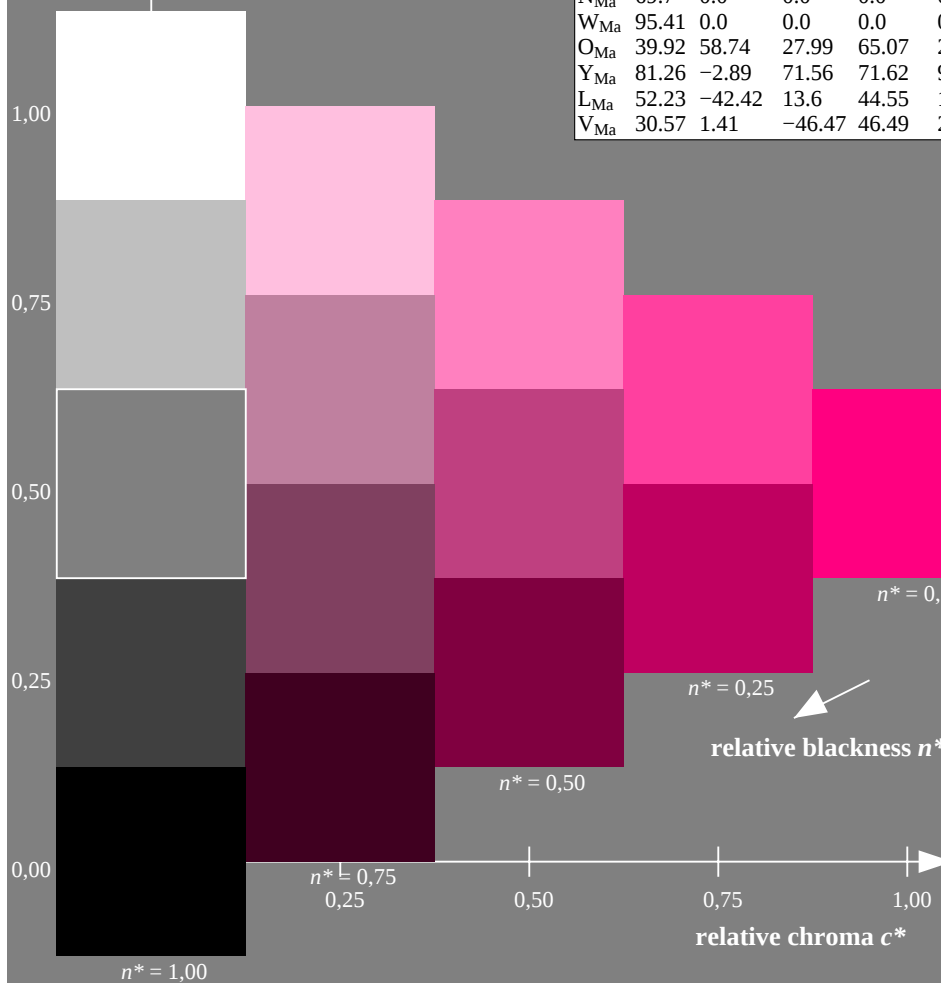
$u^*_{rel} = 16$

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70a; adapted (a) CIELAB data					
d^*	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$ u^*
o00y	76.43	26.27	10.57	28.32	22 b96r
o25y	80.63	17.37	16.35	23.86	43 r26j
o50y	84.1	10.03	21.12	23.38	65 r58j
o75y	87.95	1.88	26.42	26.48	86 r90j
y00l	93.93	-10.77	34.63	36.27	107 j21g
y25l	92.93	-16.18	33.12	36.86	116 j34g
y50l	91.88	-21.91	31.52	38.39	125 j46g
y75l	90.7	-28.29	29.74	41.05	134 j58g
l00c	89.32	-35.81	27.64	45.24	142 j71g
l50c	90.39	-26.64	4.65	27.04	170 g07b
c00v	90.93	-21.96	-7.08	23.07	198 g32b
c50v	83.93	-7.93	-17.7	19.4	246 g76b
v00m	72.1	15.76	-35.64	38.97	294 b19r
v50m	75.06	25.83	-30.83	40.22	310 b33r
m00o	78.5	37.52	-25.24	45.22	326 b47r
m50o	77.23	30.6	-3.22	30.77	354 b72r



IE560-7N