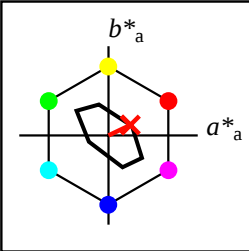


Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = r00j$ $d^* = o04y$



TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

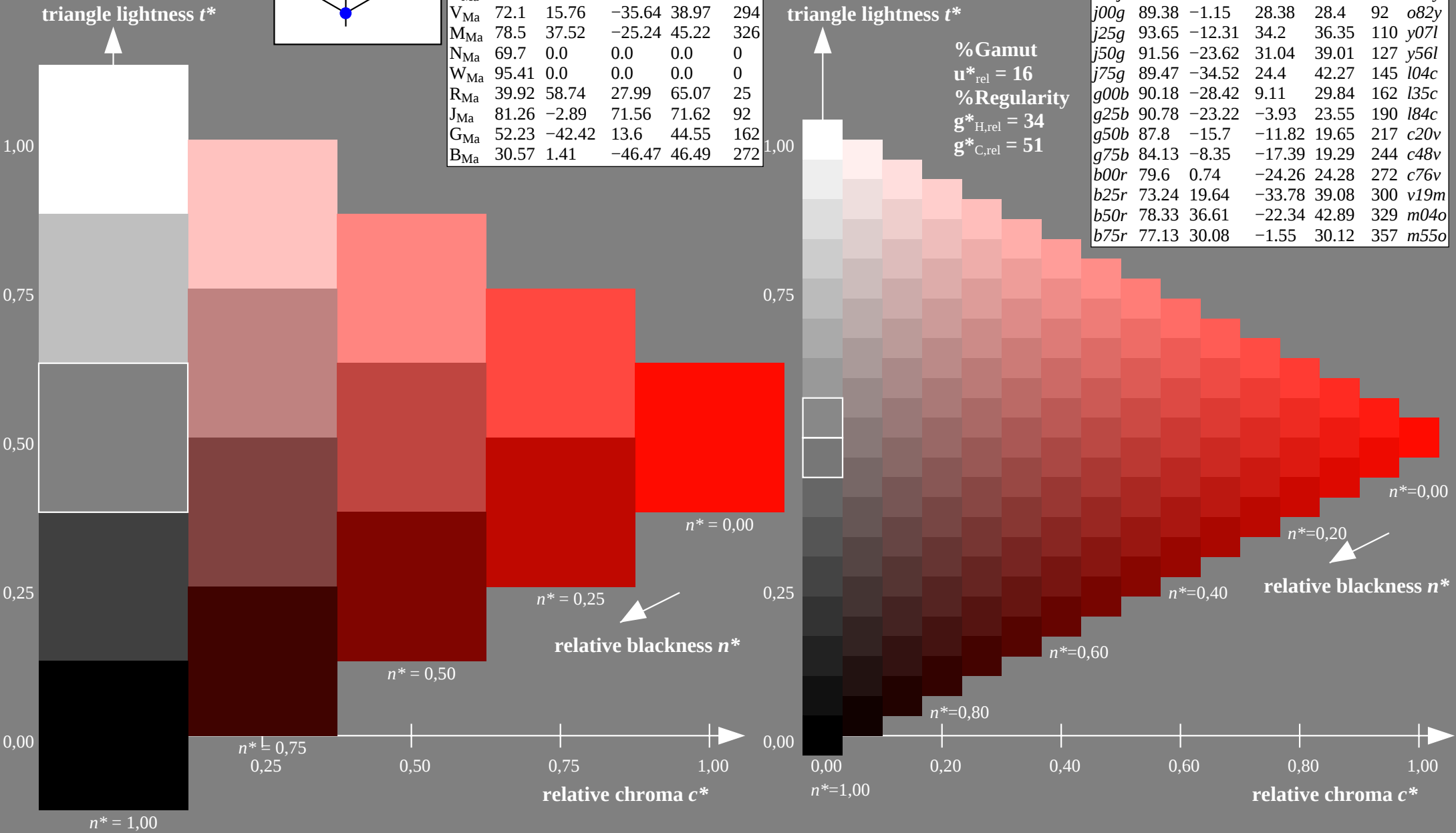
$LAB^*LAB^*_{Ma}$: 77 25 12

$LAB^*LCH^*_{Ma}$: 77 27 25

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

$lab^*olv^*_{Ma}$: 1.0 0.04 0.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	

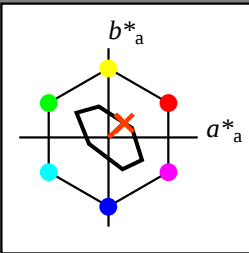


Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ $u^* = r25j$

data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = r25j$ $d^* = o23y$

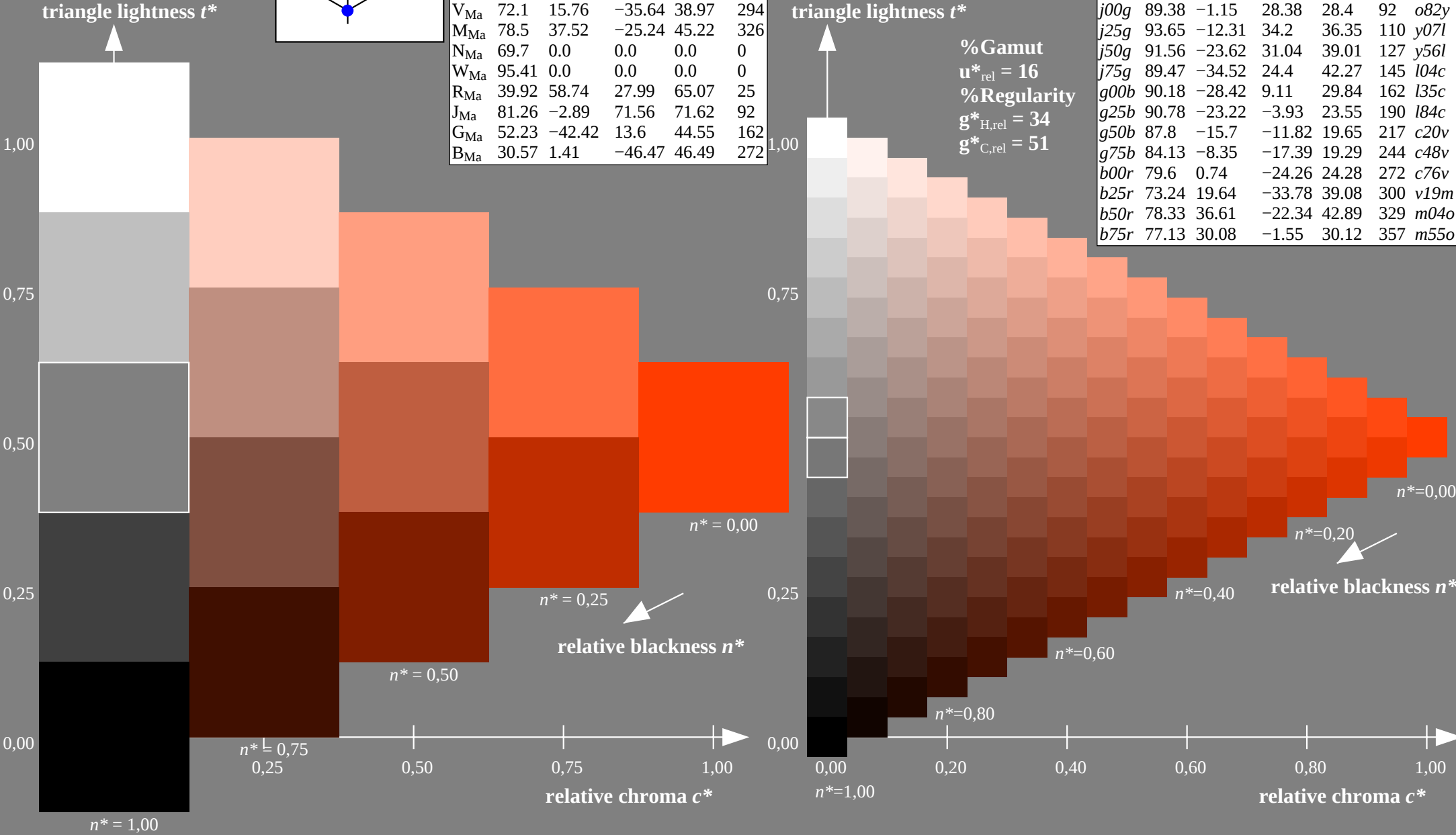


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 80 18 16
 $LAB^*LCH^*_{Ma}$: 80 24 42
 $lab^*rgb^*_{Ma}$: 1.0 0.25 0.0
 $lab^*olv^*_{Ma}$: 1.0 0.24 0.0

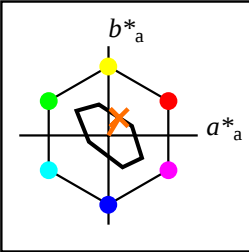
TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = r50j$ $d^* = o43y$



TLS70a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	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	
R _{Ma}	39.92	58.74	27.99	65.07	25	
J _{Ma}	81.26	-2.89	71.56	71.62	92	
G _{Ma}	52.23	-42.42	13.6	44.55	162	
B _{Ma}	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

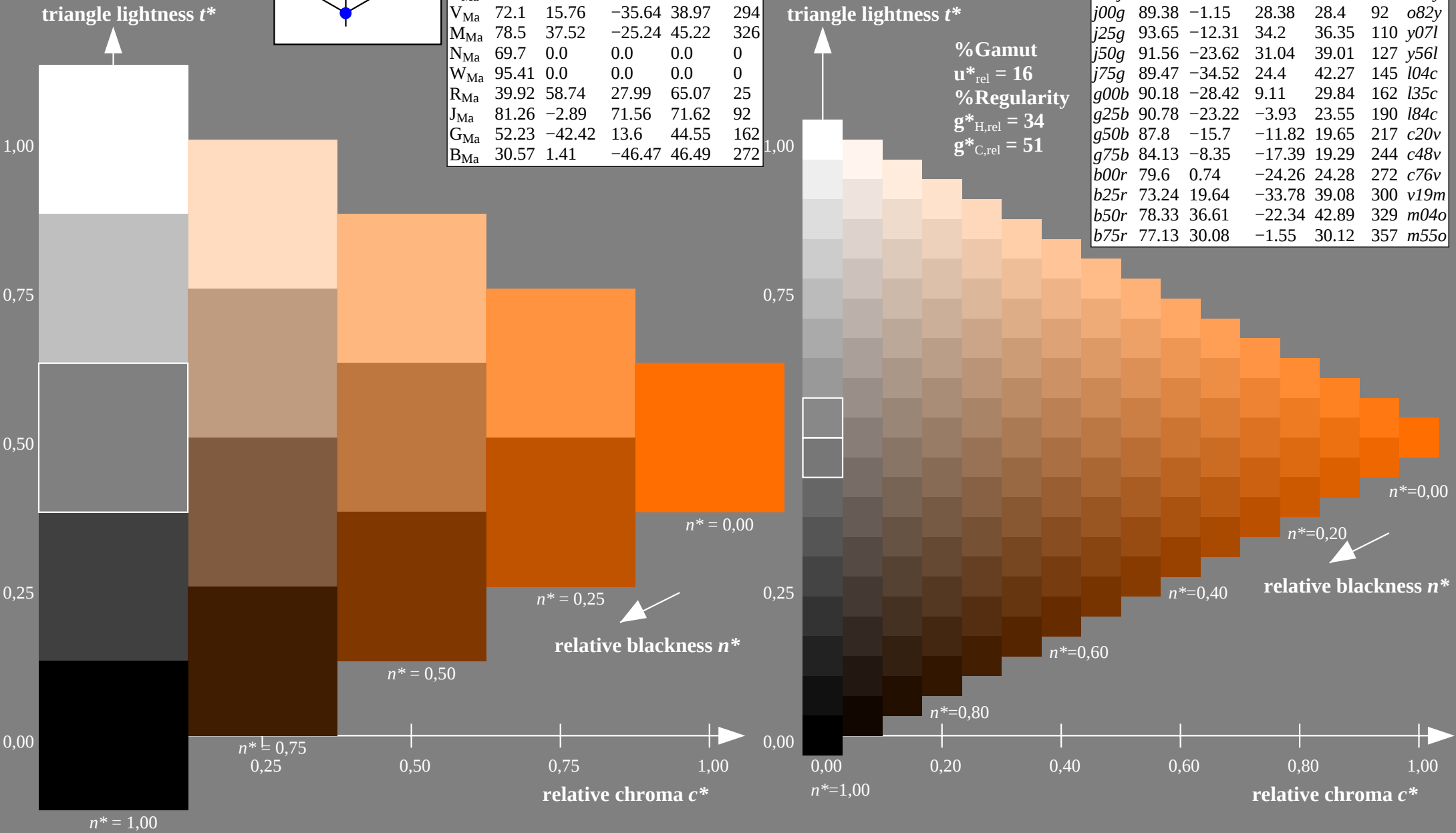
$LAB^*LAB^*_{Ma}$: 83 12 20

$LAB^*LCH^*_{Ma}$: 83 23 58

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

$lab^*olv^*_{Ma}$: 1.0 0.43 0.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	

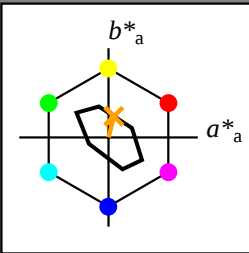


Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ $u^* = r75j$

data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = r75j$ $d^* = o62y$

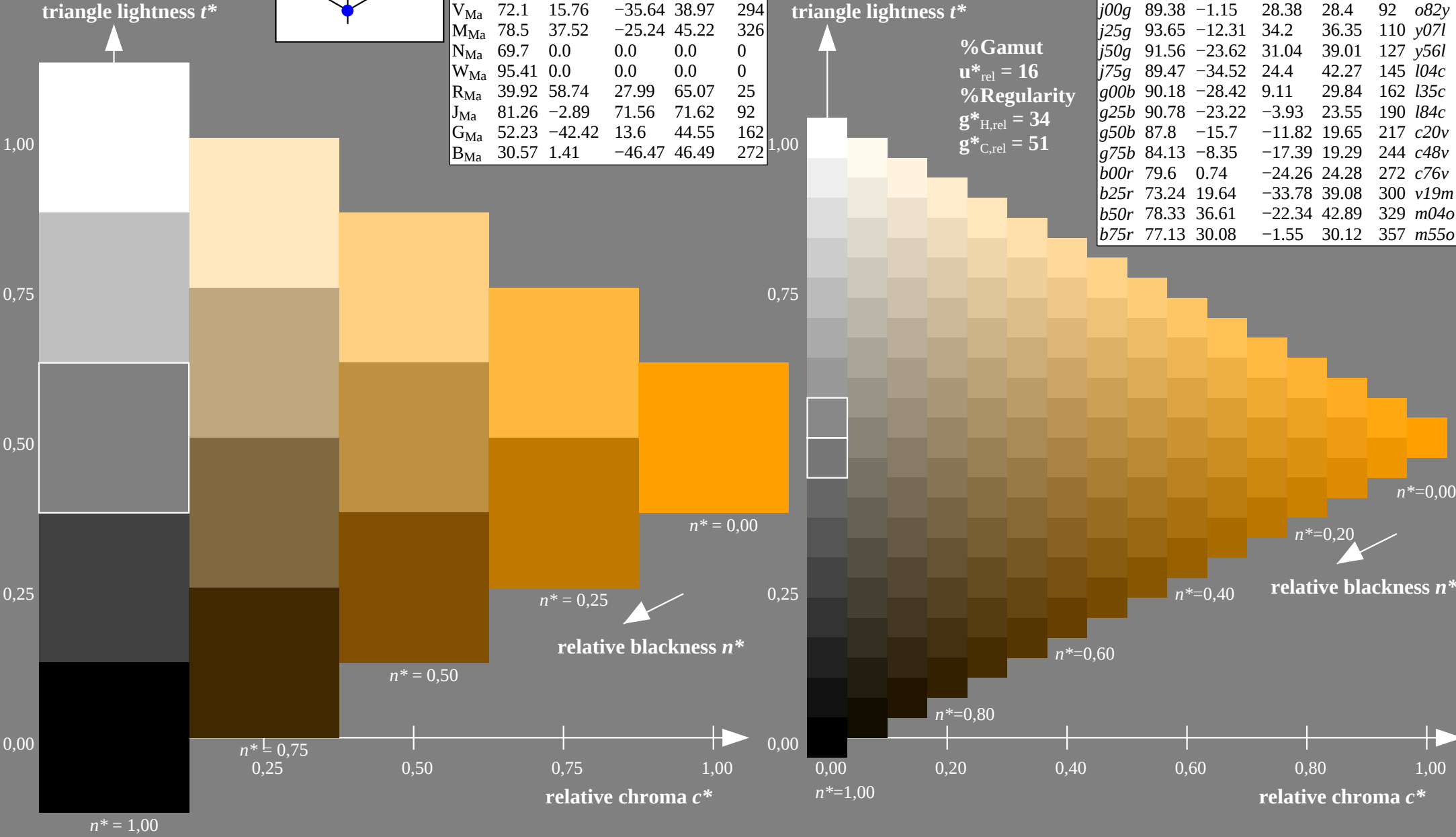


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 86 6 24
 $LAB^*LCH^*_{Ma}$: 86 24 75
 $lab^*rgb^*_{Ma}$: 1.0 0.75 0.0
 $lab^*olv^*_{Ma}$: 1.0 0.63 0.0

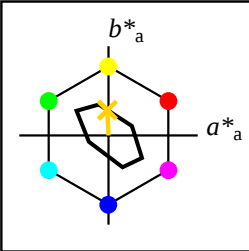
TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = j00g$ $d^* = o82y$



TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

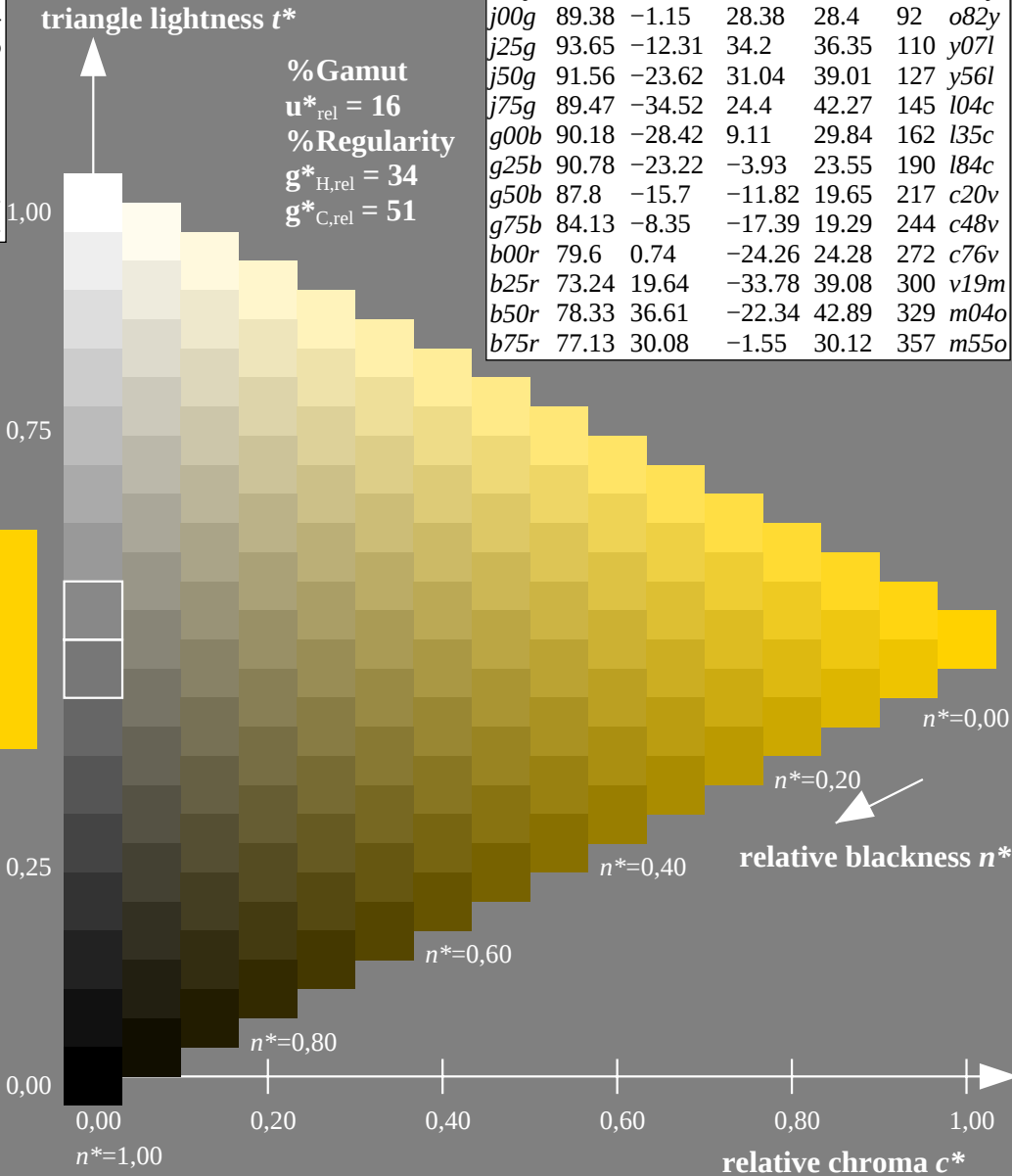
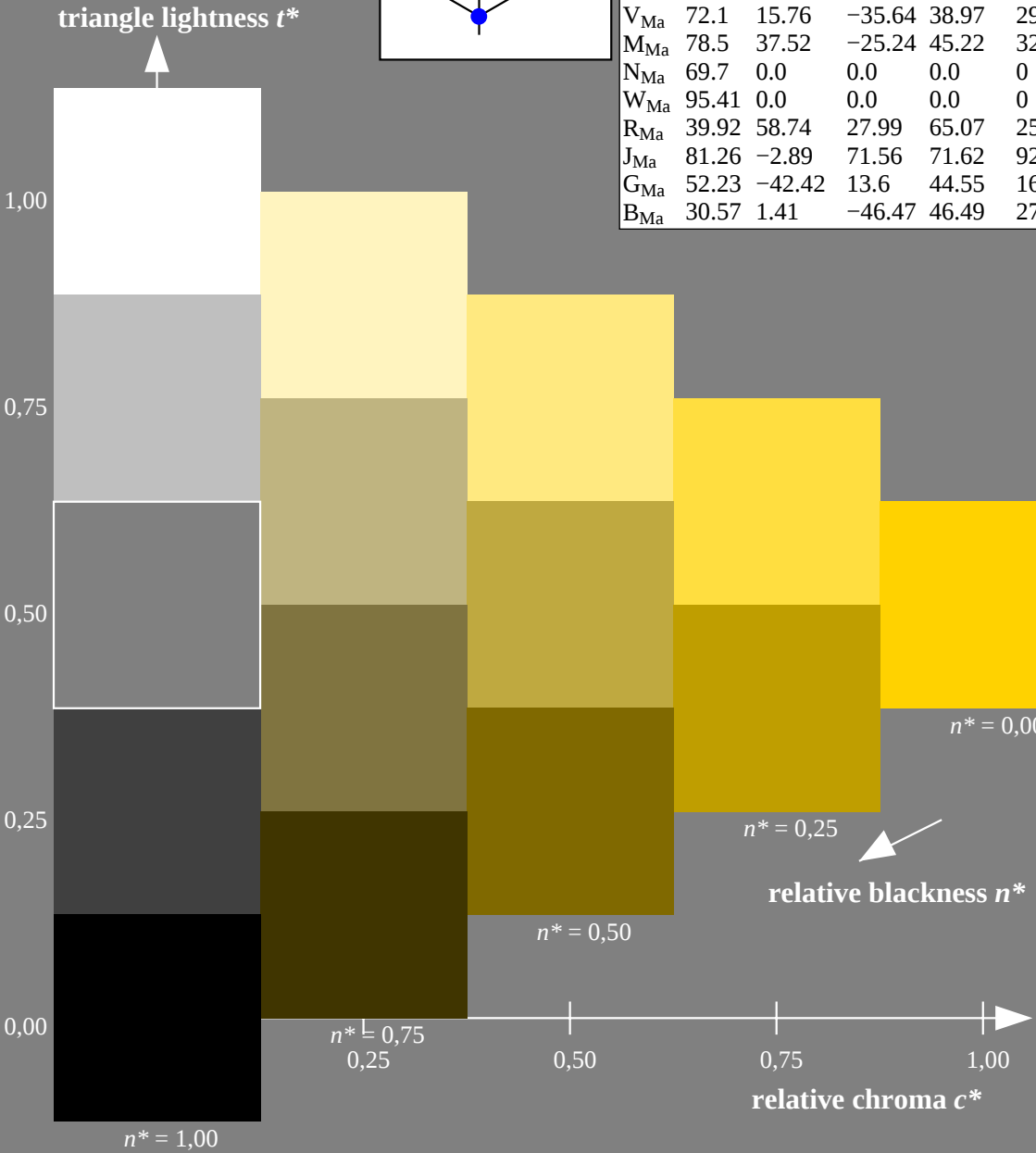
$LAB^*LAB^*_{Ma}$: 89 -1 28

$LAB^*LCH^*_{Ma}$: 89 28 92

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

$lab^*olv^*_{Ma}$: 1.0 0.82 0.0

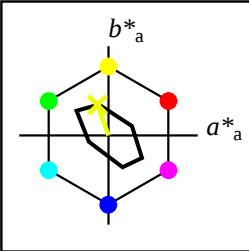
TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = j25g$ $d^* = y07l$



TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

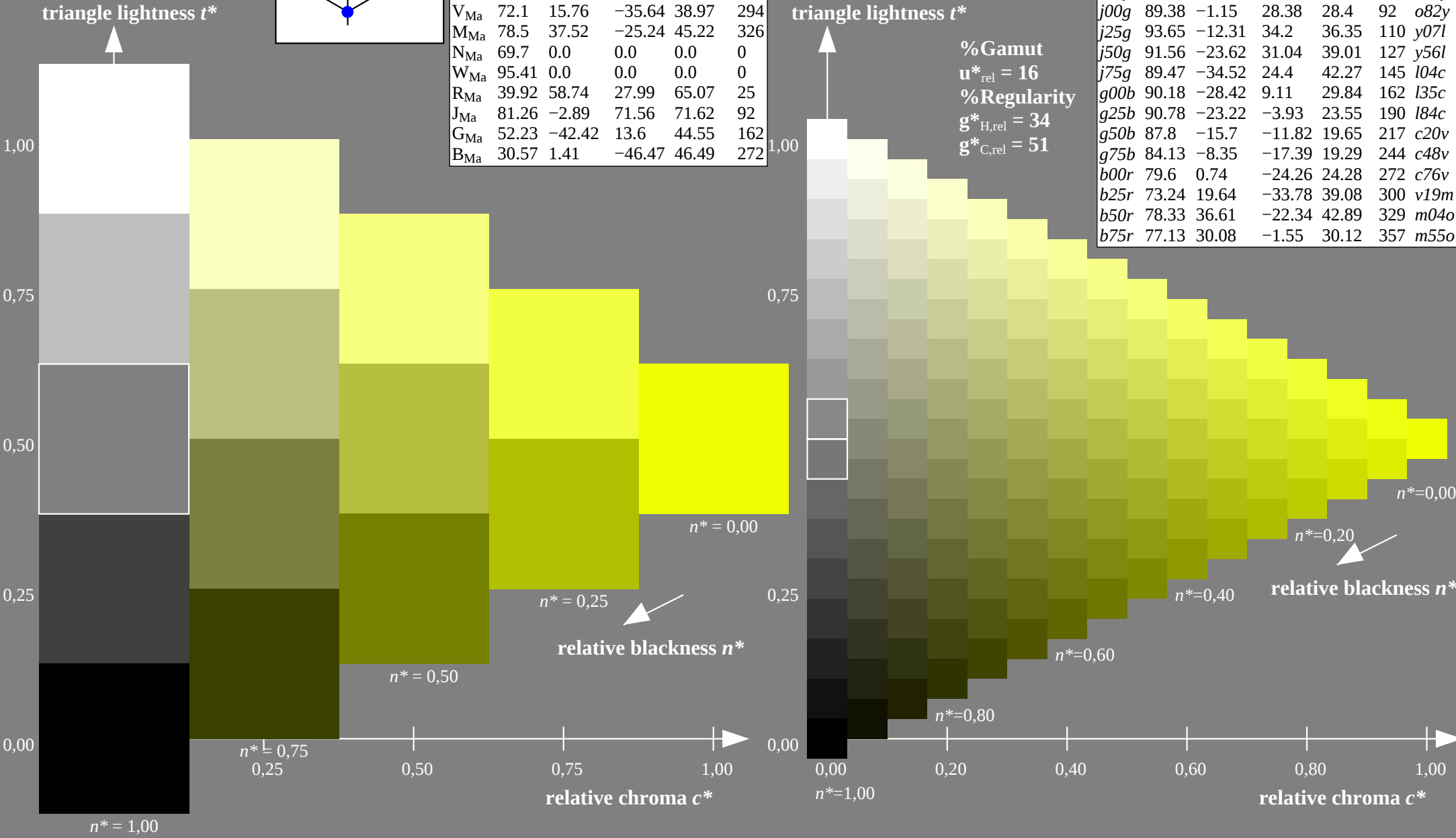
$LAB^*LAB^*_{Ma}$: 94 -12 34

$LAB^*LCH^*_{Ma}$: 94 36 109

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

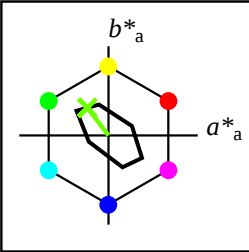
$lab^*olv^*_{Ma}$: 0.93 1.0 0.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = j50g$ $d^* = y56l$

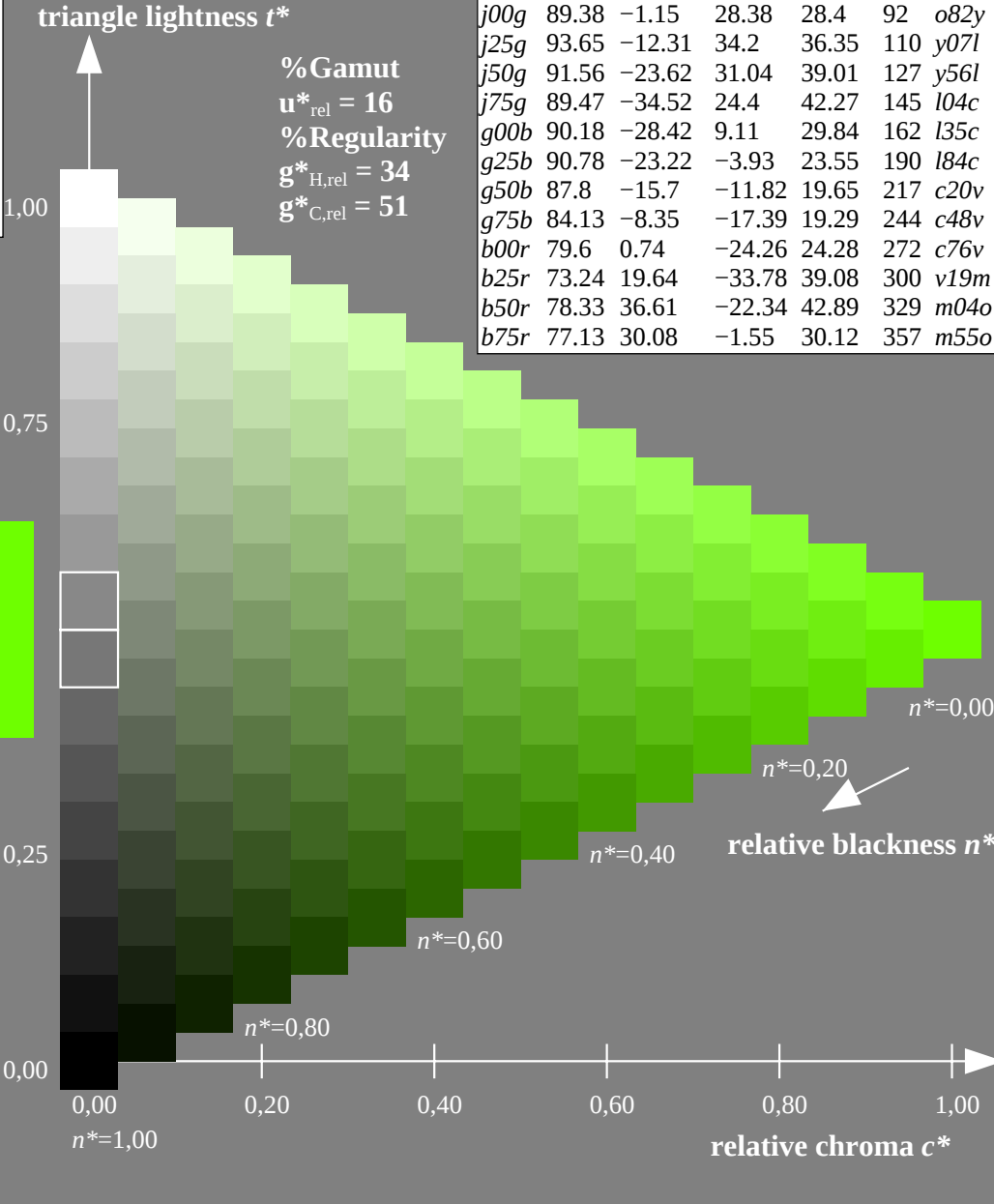
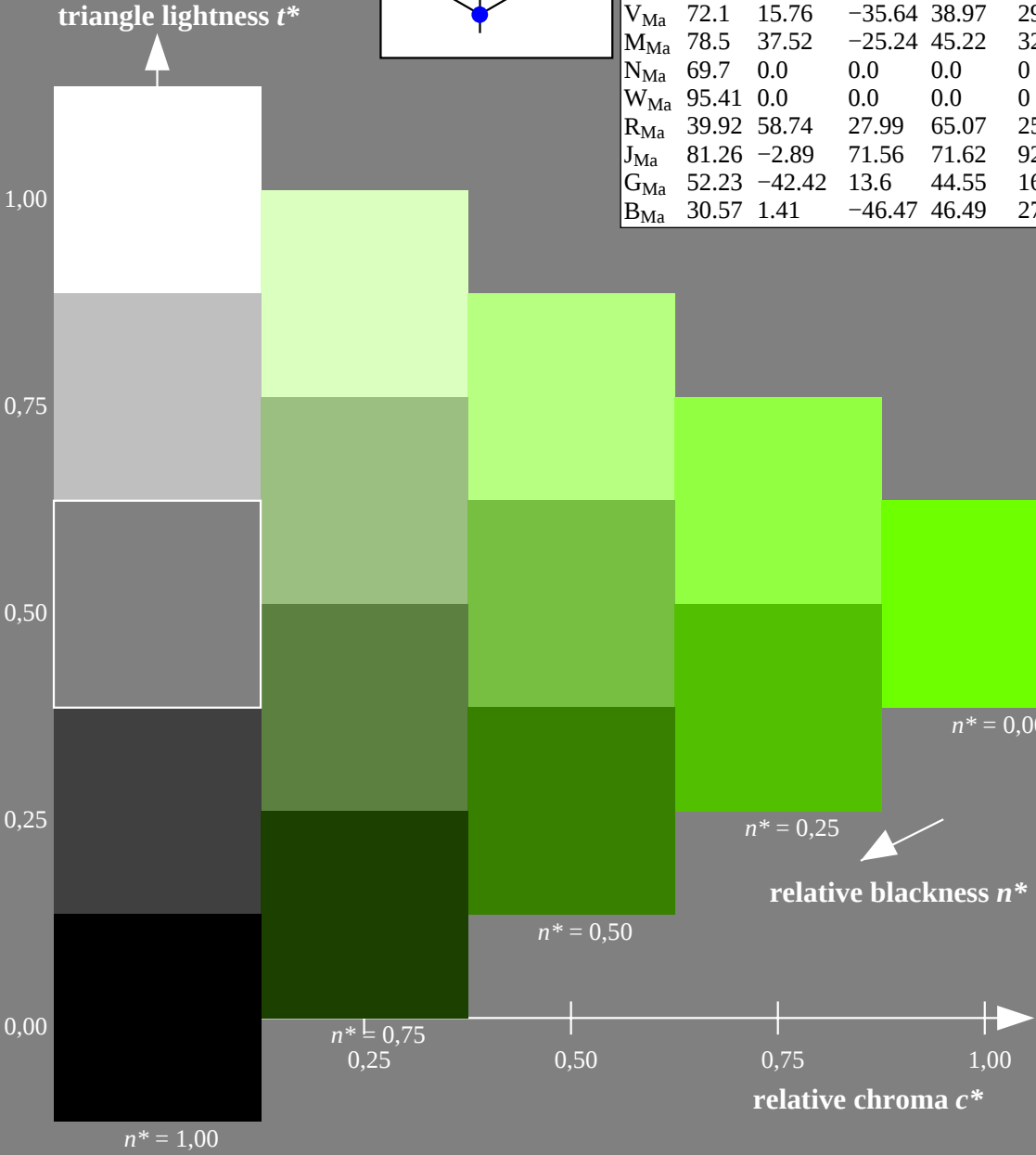


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

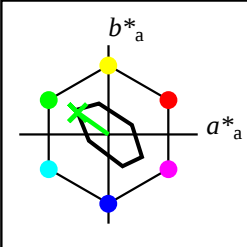
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 92 -24 31
 $LAB^*LCH^*_{Ma}$: 92 39 127
 $lab^*rgb^*_{Ma}$: 0.5 1.0 0.0
 $lab^*olv^*_{Ma}$: 0.43 1.0 0.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



data for any colour:
 lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = j75g$ $d^* = l04c$

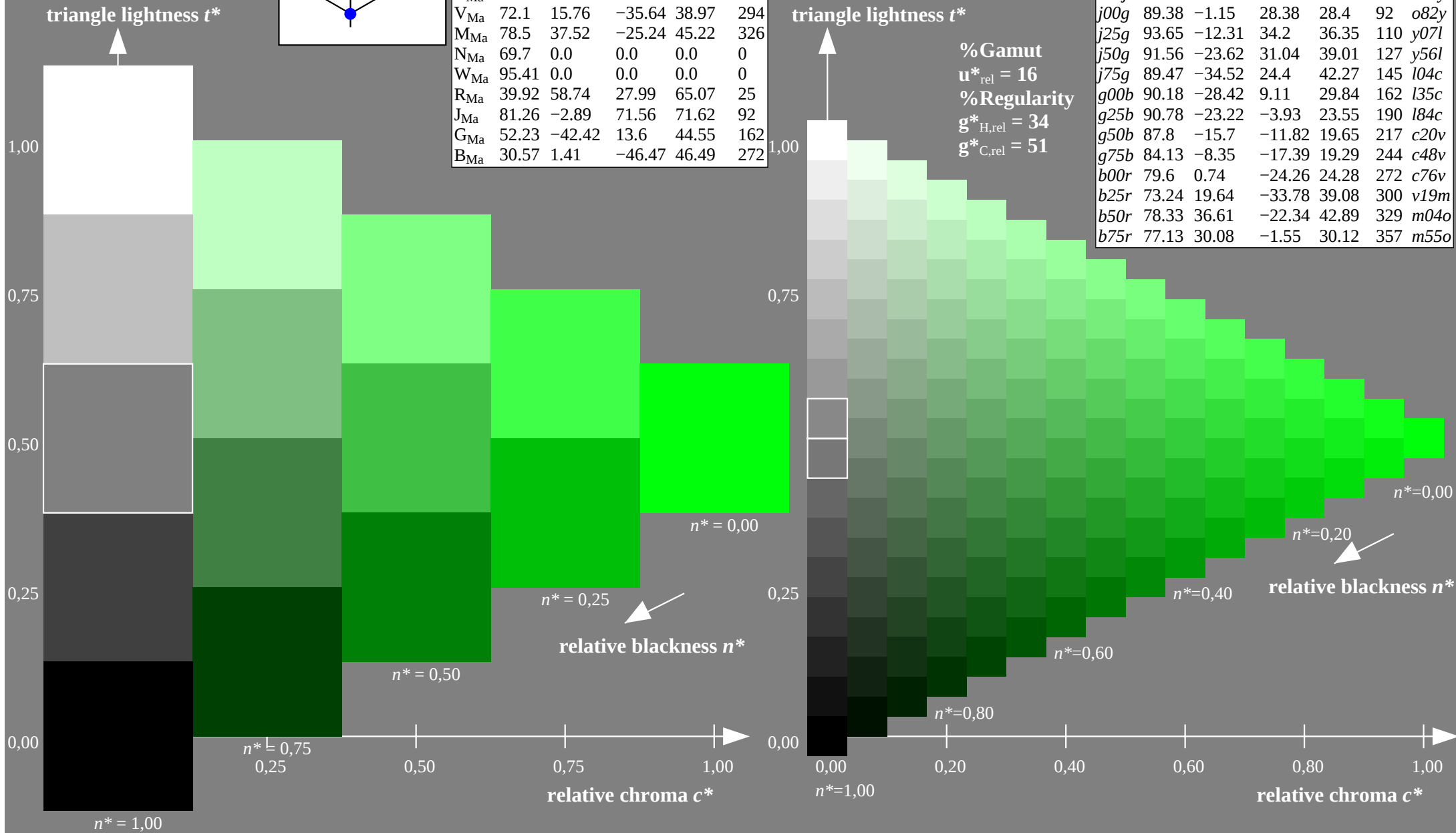


TLS70a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	76.43	26.27	10.57	28.32	22	
Y _{Ma}	93.93	-10.77	34.63	36.27	107	
L _{Ma}	89.32	-35.81	27.64	45.24	142	
C _{Ma}	90.93	-21.96	-7.08	23.07	198	
V _{Ma}	72.1	15.76	-35.64	38.97	294	
M _{Ma}	78.5	37.52	-25.24	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	
R _{Ma}	39.92	58.74	27.99	65.07	25	
J _{Ma}	81.26	-2.89	71.56	71.62	92	
G _{Ma}	52.23	-42.42	13.6	44.55	162	
B _{Ma}	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

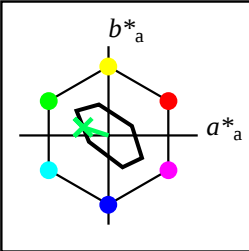
$LAB^*LAB^*_{Ma}$: 89 -35 24
 $LAB^*LCH^*_{Ma}$: 89 42 144
 $lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
 $lab^*olv^*_{Ma}$: 0.0 1.0 0.04

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = g00b$ $d^* = l35c$

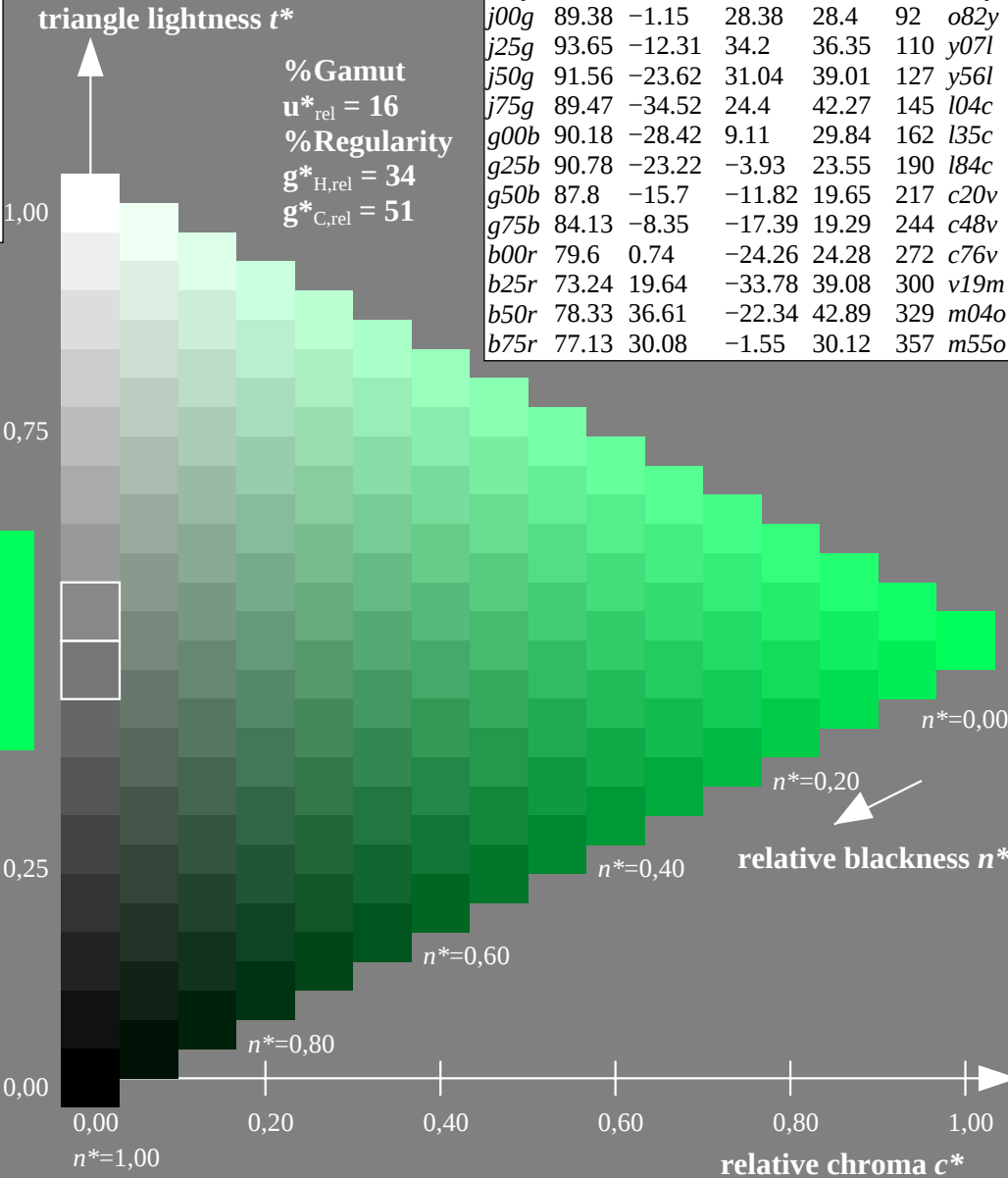
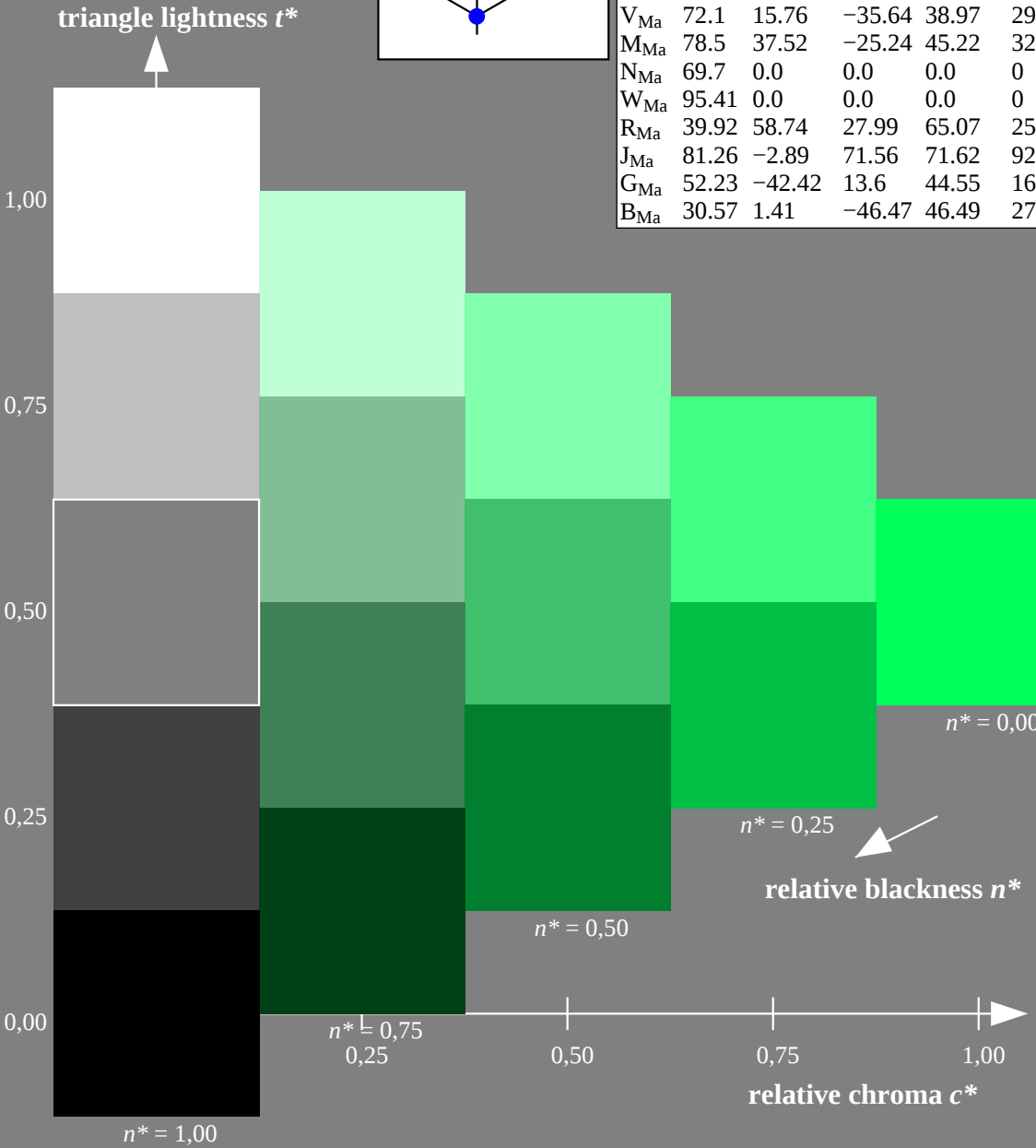


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 90 -28 9
 $LAB^*LCH^*_{Ma}$: 90 30 162
 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
 $lab^*olv^*_{Ma}$: 0.0 1.0 0.36

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



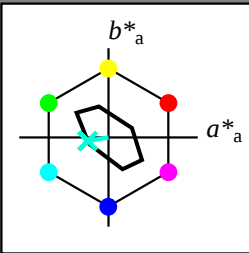
Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$

$u^* = g25b$

data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = g25b$ $d^* = l84c$

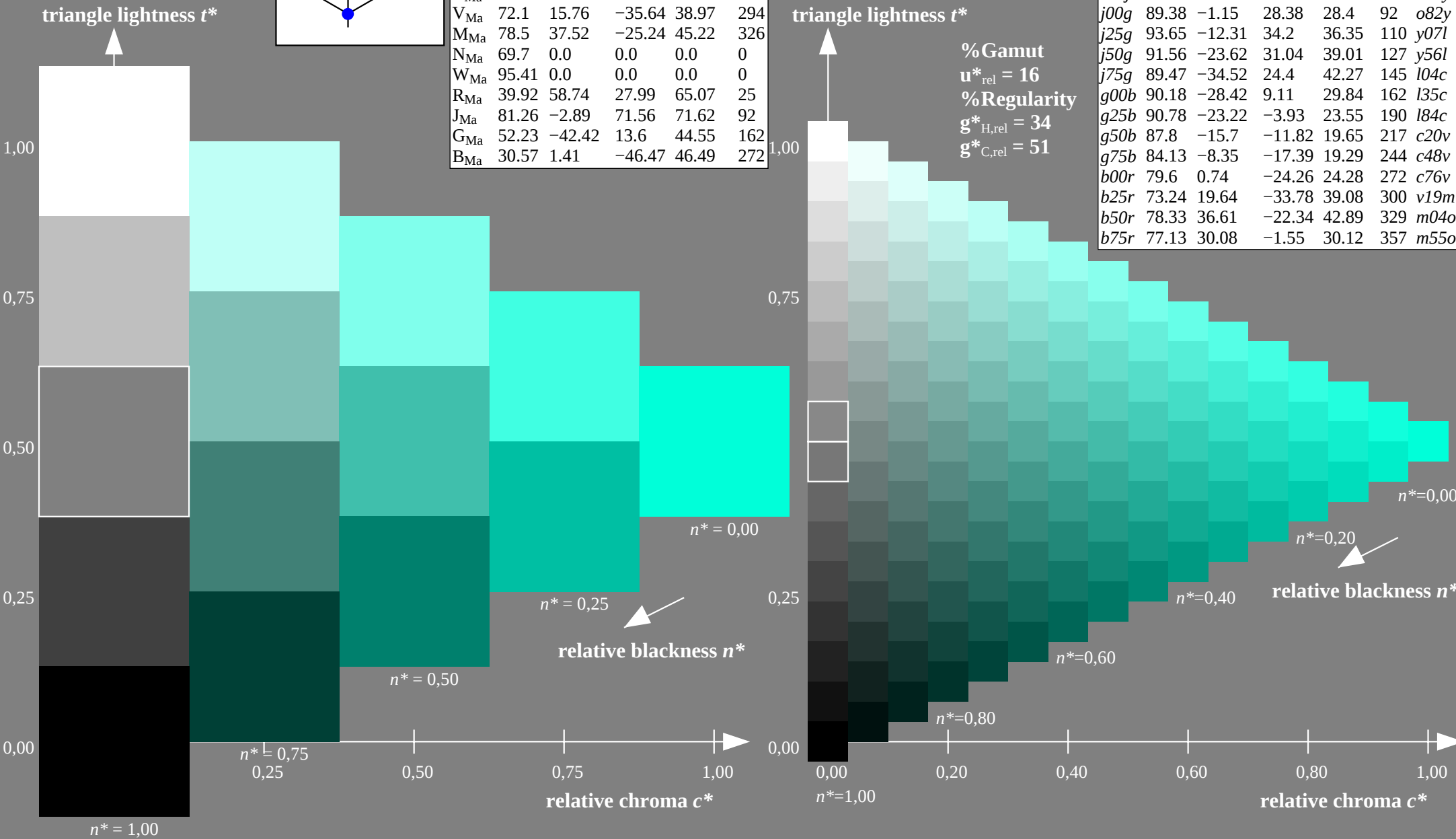


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

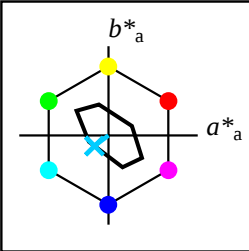
$LAB^*LAB^*_{Ma}$: 91 -23 -4
 $LAB^*LCH^*_{Ma}$: 91 24 189
 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
 $lab^*olv^*_{Ma}$: 0.0 1.0 0.85

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = g50b$ $d^* = c20v$

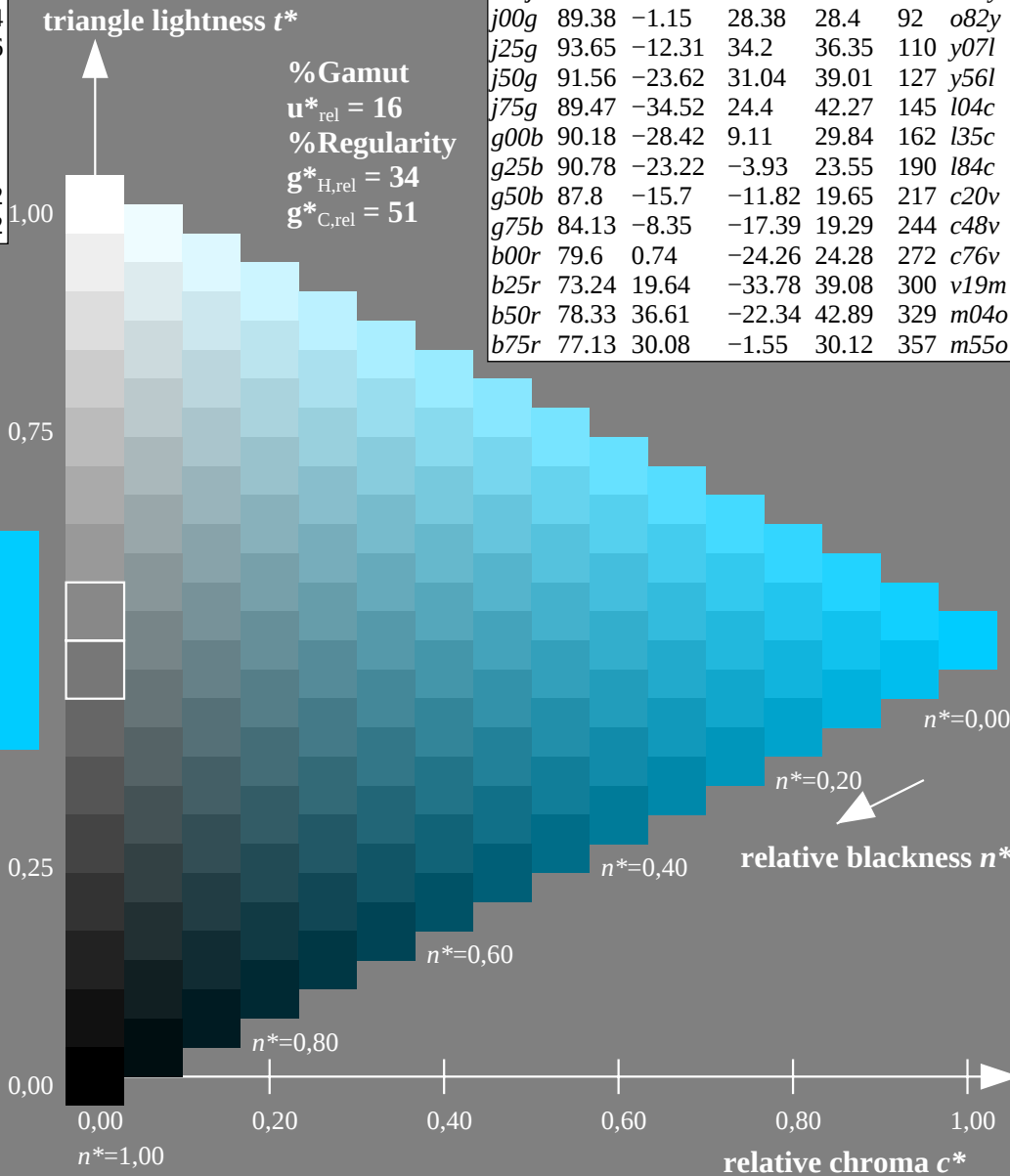
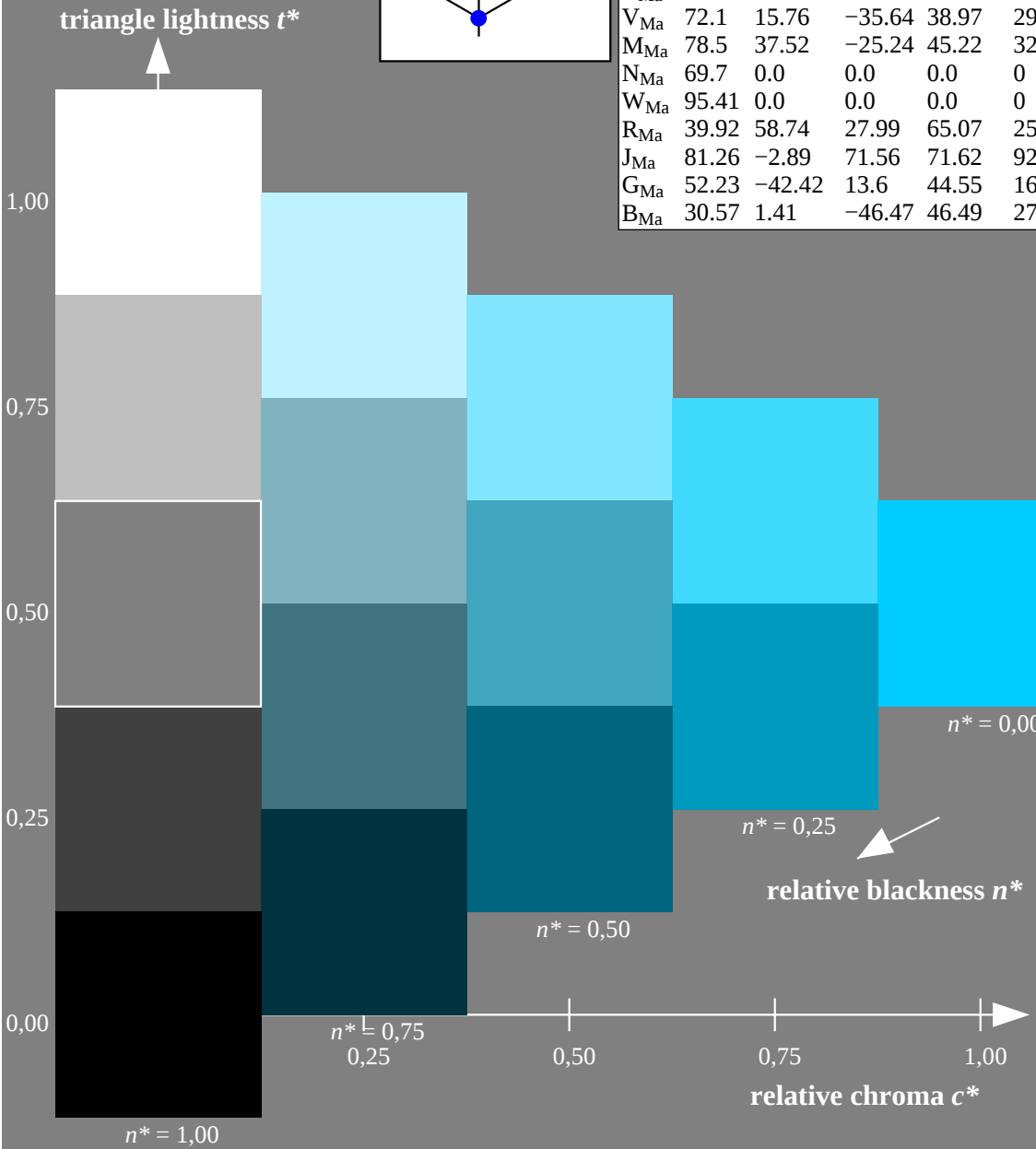


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 88 -16 -12
 $LAB^*LCH^*_{Ma}$: 88 20 216
 $lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
 $lab^*olv^*_{Ma}$: 0.0 0.8 1.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



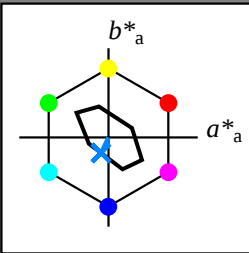
Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$

$u^* = g75b$

data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:

$u^* = g75b$ $d^* = c48v$

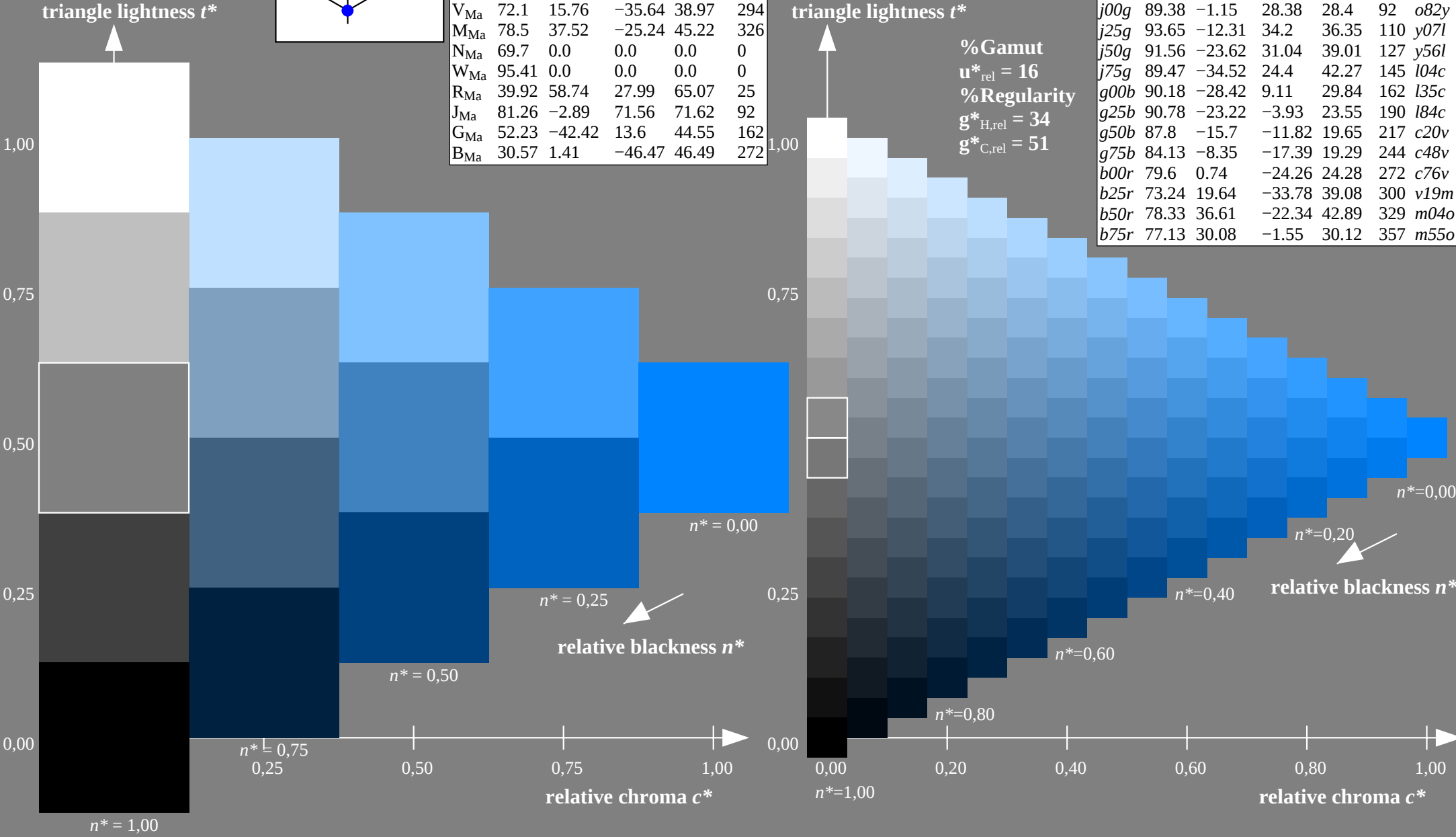


TLS70a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	76.43	26.27	10.57	28.32	22	
Y _{Ma}	93.93	-10.77	34.63	36.27	107	
L _{Ma}	89.32	-35.81	27.64	45.24	142	
C _{Ma}	90.93	-21.96	-7.08	23.07	198	
V _{Ma}	72.1	15.76	-35.64	38.97	294	
M _{Ma}	78.5	37.52	-25.24	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	
R _{Ma}	39.92	58.74	27.99	65.07	25	
J _{Ma}	81.26	-2.89	71.56	71.62	92	
G _{Ma}	52.23	-42.42	13.6	44.55	162	
B _{Ma}	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

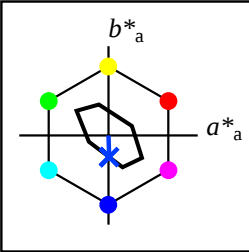
$LAB^*LAB^*_{Ma}$: 84 -8 -17
 $LAB^*LCH^*_{Ma}$: 84 19 244
 $lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
 $lab^*olv^*_{Ma}$: 0.0 0.52 1.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = b00r$ $d^* = c76v$

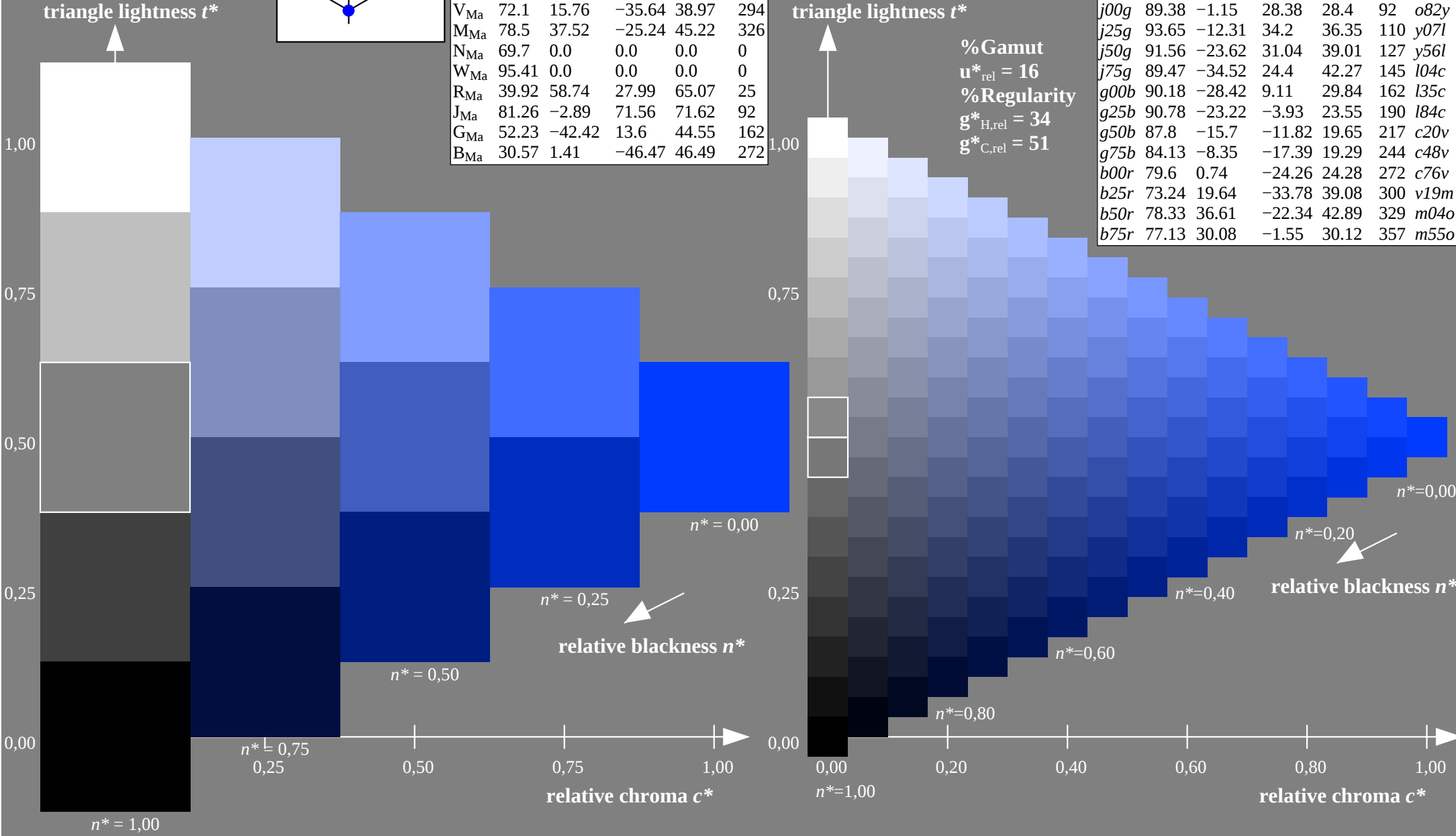


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

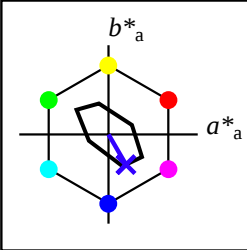
$LAB^*LAB^*_{Ma}$: 80 1 -24
 $LAB^*LCH^*_{Ma}$: 80 24 271
 $lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
 $lab^*olv^*_{Ma}$: 0.0 0.23 1.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$
data for any colour:
 lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = b25r$ $d^* = v19m$

$u^* = b25r$

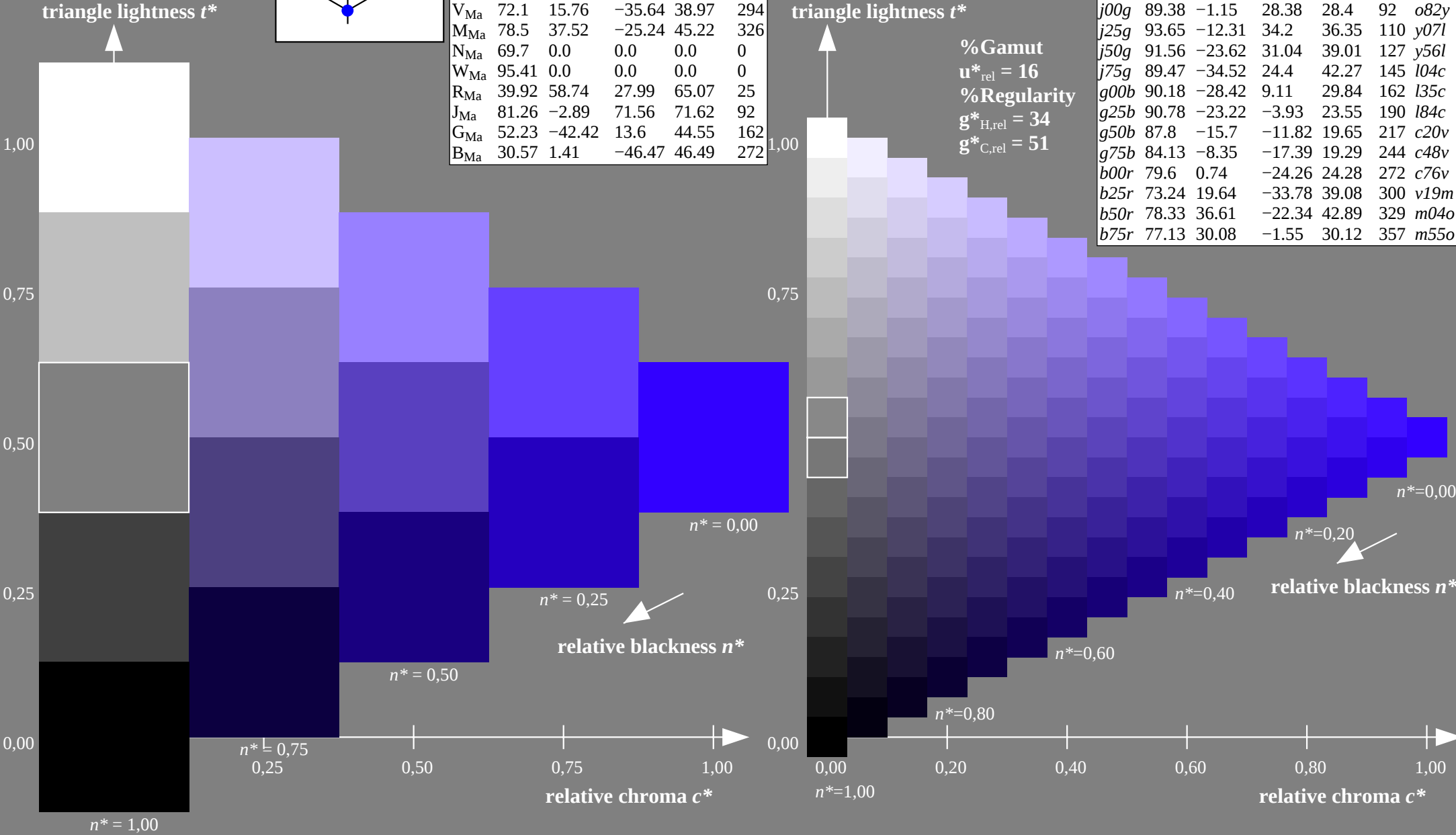


TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.77	34.63	36.27	107
L _{Ma}	89.32	-35.81	27.64	45.24	142
C _{Ma}	90.93	-21.96	-7.08	23.07	198
V _{Ma}	72.1	15.76	-35.64	38.97	294
M _{Ma}	78.5	37.52	-25.24	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

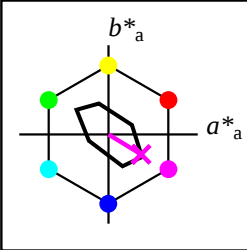
$LAB^*LAB^*_{Ma}$: 73 20 -34
 $LAB^*LCH^*_{Ma}$: 73 39 300
 $lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
 $lab^*olv^*_{Ma}$: 0.2 0.0 1.0

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25		o04y
r25j	80.45	17.76	16.1	23.97	42		o23y
r50j	83.18	11.98	19.85	23.19	59		o43y
r75j	85.97	6.08	23.69	24.45	76		o62y
j00g	89.38	-1.15	28.38	28.4	92		o82y
j25g	93.65	-12.31	34.2	36.35	110		y07l
j50g	91.56	-23.62	31.04	39.01	127		y56l
j75g	89.47	-34.52	24.4	42.27	145		l04c
g00b	90.18	-28.42	9.11	29.84	162		l35c
g25b	90.78	-23.22	-3.93	23.55	190		l84c
g50b	87.8	-15.7	-11.82	19.65	217		c20v
g75b	84.13	-8.35	-17.39	19.29	244		c48v
b00r	79.6	0.74	-24.26	24.28	272		c76v
b25r	73.24	19.64	-33.78	39.08	300		v19m
b50r	78.33	36.61	-22.34	42.89	329		m04o
b75r	77.13	30.08	-1.55	30.12	357		m55o



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$
data for any colour:
 lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = b50r$ $d^* = m04o$

$u^* = b50r$



TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

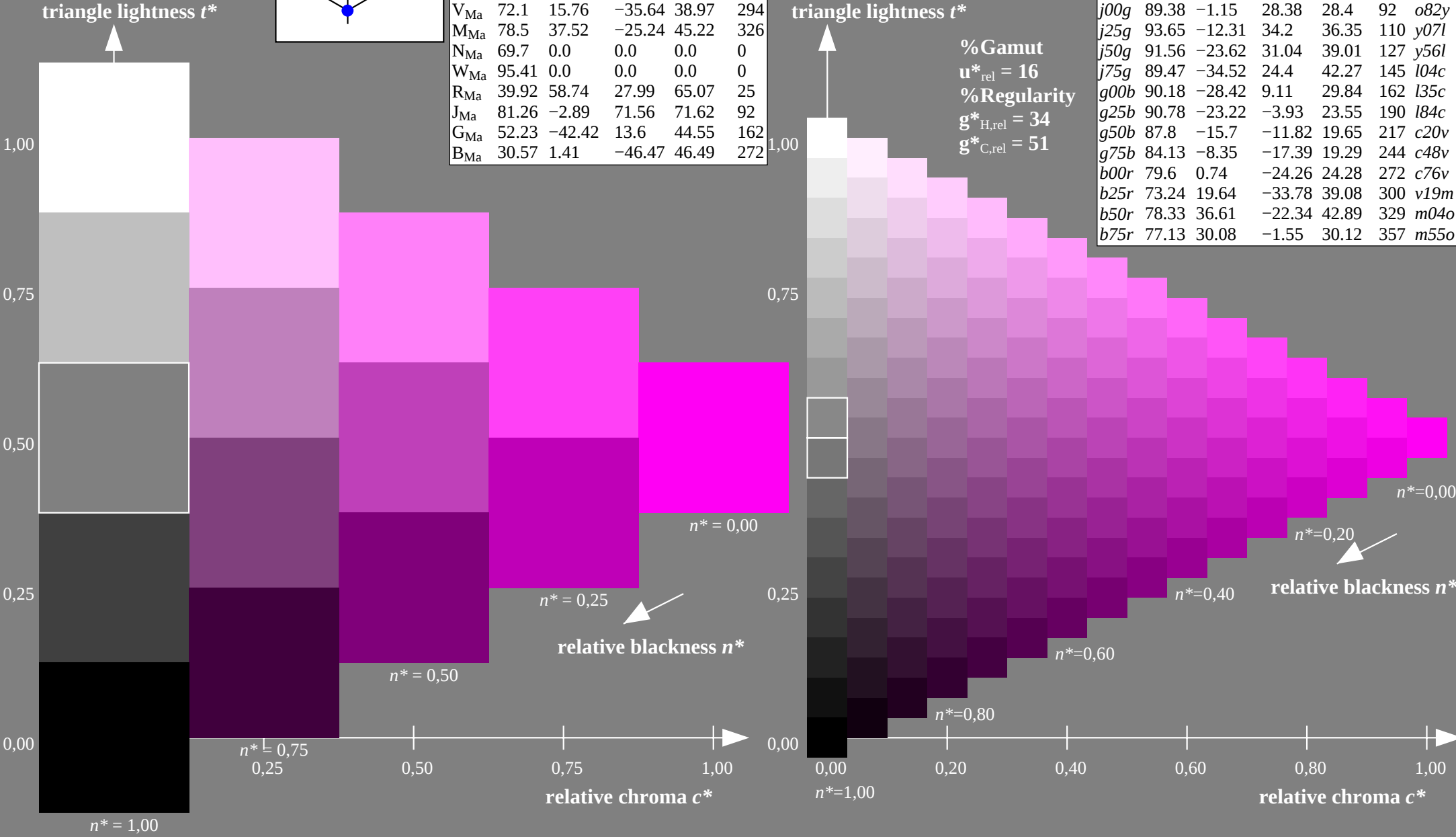
$LAB^*LAB^*_{Ma}$: 78 37 -22

$LAB^*LCH^*_{Ma}$: 78 43 328

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

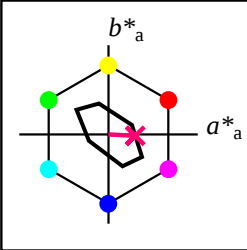
$lab^*olv^*_{Ma}$: 1.0 0.0 0.95

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25		o04y
r25j	80.45	17.76	16.1	23.97	42		o23y
r50j	83.18	11.98	19.85	23.19	59		o43y
r75j	85.97	6.08	23.69	24.45	76		o62y
j00g	89.38	-1.15	28.38	28.4	92		o82y
j25g	93.65	-12.31	34.2	36.35	110		y07l
j50g	91.56	-23.62	31.04	39.01	127		y56l
j75g	89.47	-34.52	24.4	42.27	145		l04c
g00b	90.18	-28.42	9.11	29.84	162		l35c
g25b	90.78	-23.22	-3.93	23.55	190		l84c
g50b	87.8	-15.7	-11.82	19.65	217		c20v
g75b	84.13	-8.35	-17.39	19.29	244		c48v
b00r	79.6	0.74	-24.26	24.28	272		c76v
b25r	73.24	19.64	-33.78	39.08	300		v19m
b50r	78.33	36.61	-22.34	42.89	329		m04o
b75r	77.13	30.08	-1.55	30.12	357		m55o



Input and output: Colorimetric Television Luminous System TLS70a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$
data for any colour:
 lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = b75r$ $d^* = m55o$

$u^* = b75r$



TLS70a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
R _{Ma}	39.92	58.74	27.99	65.07	25
J _{Ma}	81.26	-2.89	71.56	71.62	92
G _{Ma}	52.23	-42.42	13.6	44.55	162
B _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 77 30 -2
 $LAB^*LCH^*_{Ma}$: 77 30 357
 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
 $lab^*olv^*_{Ma}$: 1.0 0.0 0.45

TLS70a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	77.25	24.54	11.69	27.18	25	o04y	
r25j	80.45	17.76	16.1	23.97	42	o23y	
r50j	83.18	11.98	19.85	23.19	59	o43y	
r75j	85.97	6.08	23.69	24.45	76	o62y	
j00g	89.38	-1.15	28.38	28.4	92	o82y	
j25g	93.65	-12.31	34.2	36.35	110	y07l	
j50g	91.56	-23.62	31.04	39.01	127	y56l	
j75g	89.47	-34.52	24.4	42.27	145	l04c	
g00b	90.18	-28.42	9.11	29.84	162	l35c	
g25b	90.78	-23.22	-3.93	23.55	190	l84c	
g50b	87.8	-15.7	-11.82	19.65	217	c20v	
g75b	84.13	-8.35	-17.39	19.29	244	c48v	
b00r	79.6	0.74	-24.26	24.28	272	c76v	
b25r	73.24	19.64	-33.78	39.08	300	v19m	
b50r	78.33	36.61	-22.34	42.89	329	m04o	
b75r	77.13	30.08	-1.55	30.12	357	m55o	

