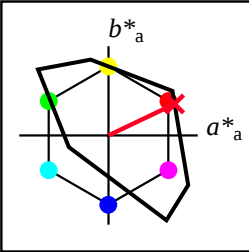


Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$
data for any colour:

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

$u^* = r00j$ $d^* = m85o$



TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

$LAB^*LAB^*_{Ma}$: 54 74 35

$LAB^*LCH^*_{Ma}$: 54 82 25

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

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

triangle lightness t^*

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	

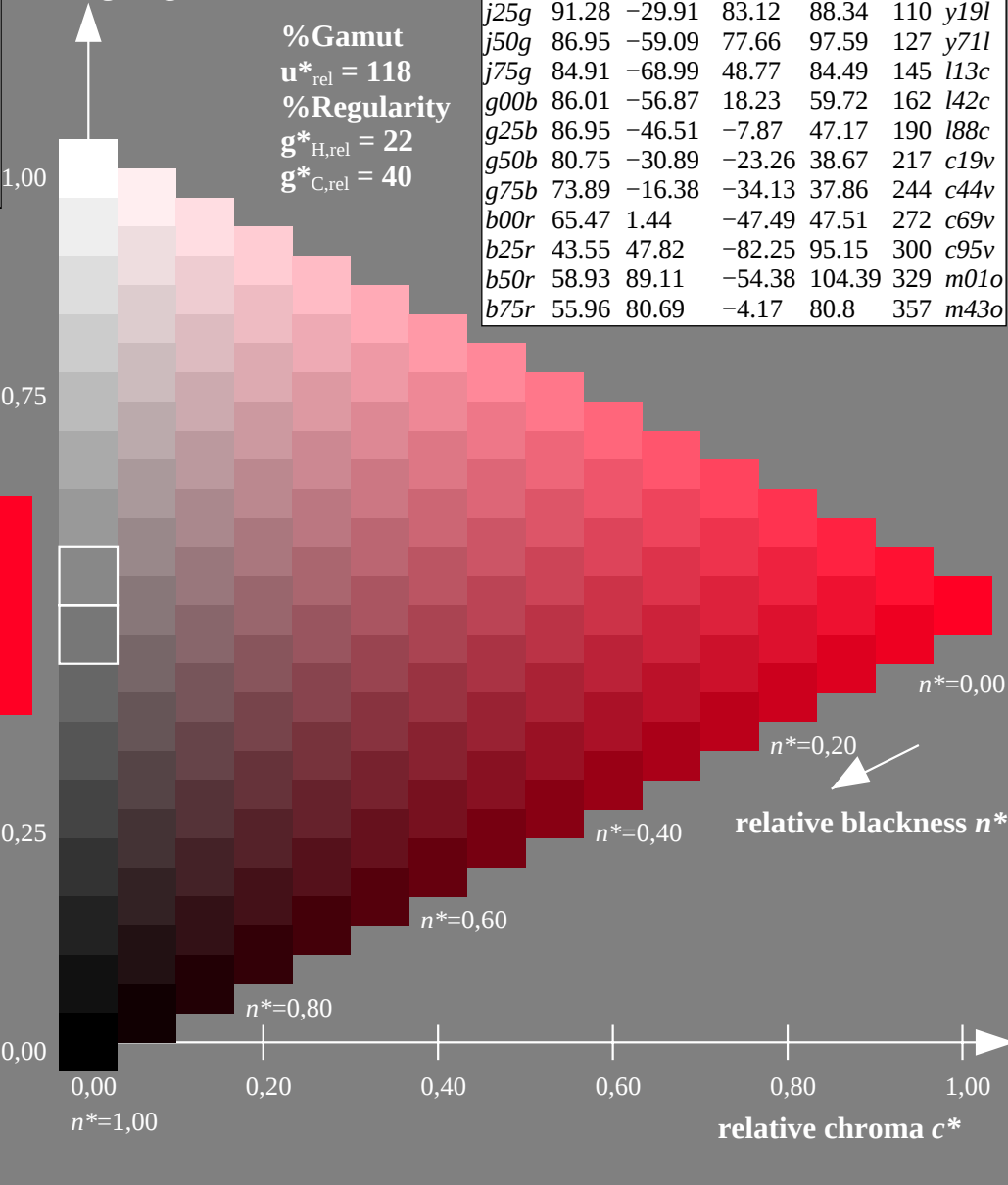
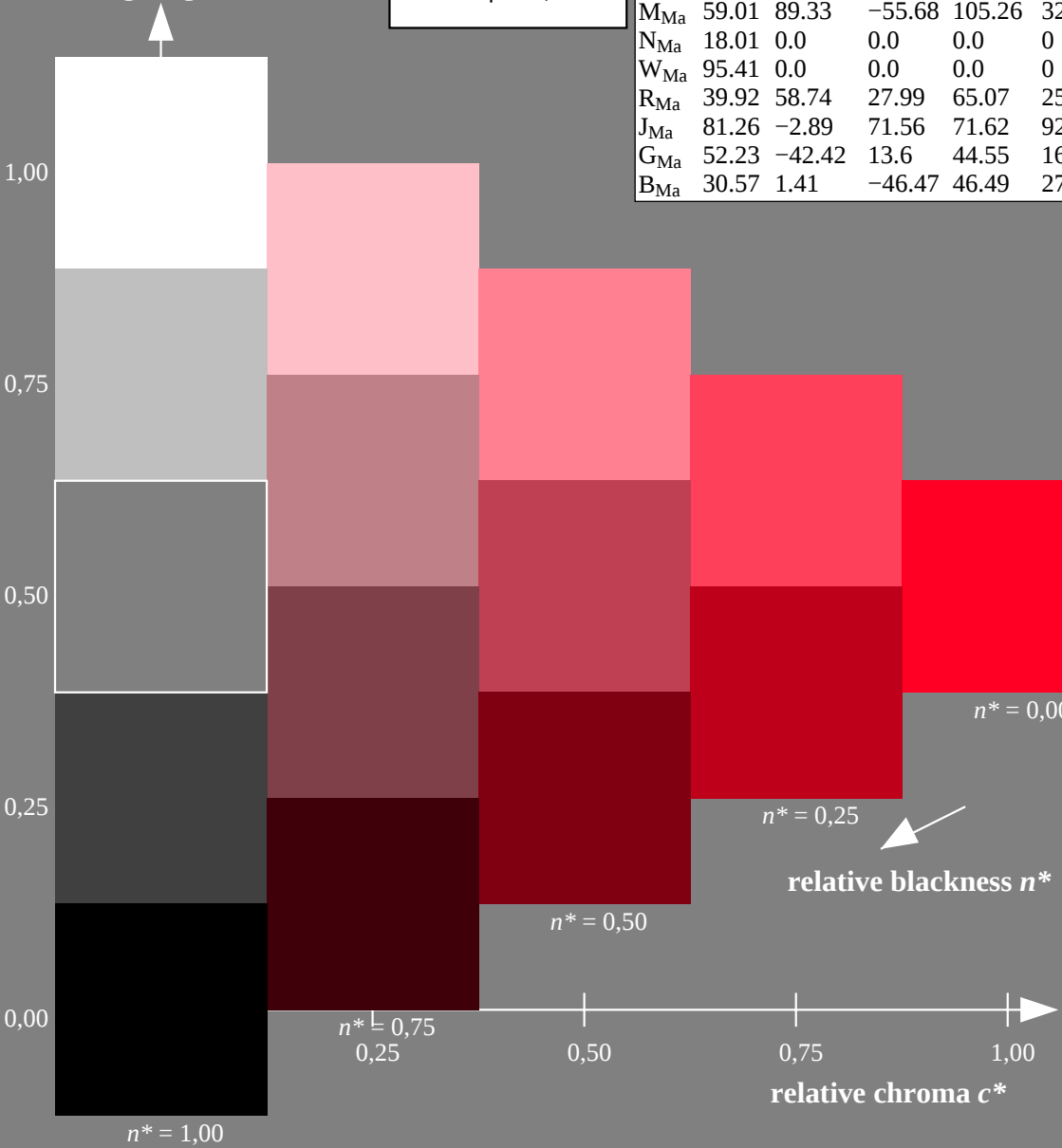
%Gamut

$u^*_{rel} = 118$

%Regularity

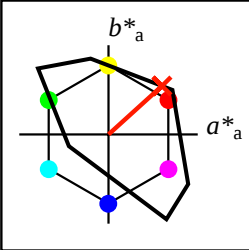
$g^*_{H,rel} = 22$

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$
data for any colour:
 lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = r25j$ $d^* = o11y$

$u^* = r25j$

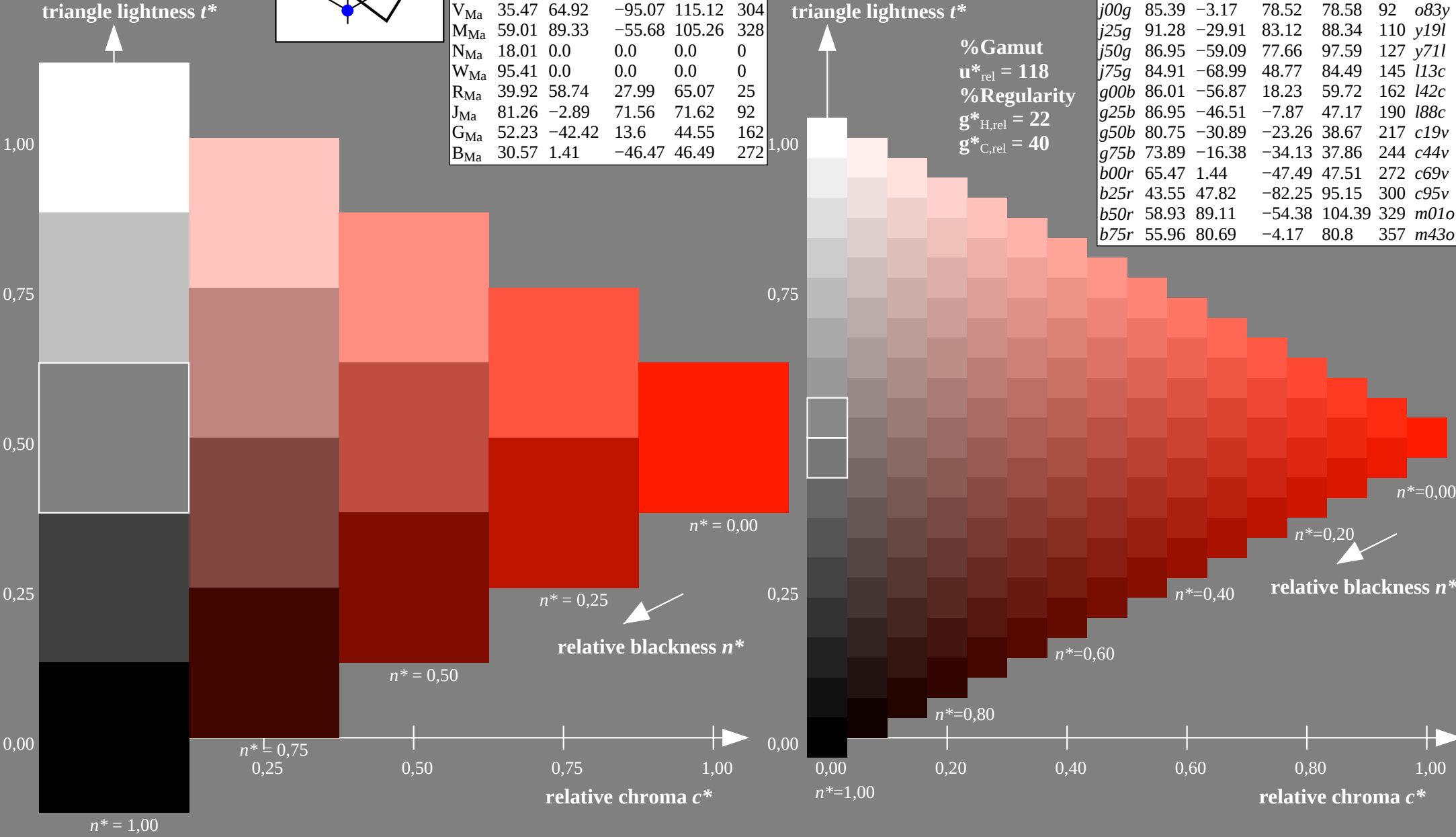


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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):

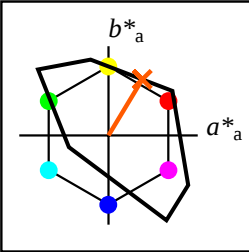
$LAB^*LAB^*_{Ma}$: 58 60 54
 $LAB^*LCH^*_{Ma}$: 58 81 42
 $lab^*rgb^*_{Ma}$: 1.0 0.25 0.0
 $lab^*olv^*_{Ma}$: 1.0 0.11 0.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = r50j$ $d^* = o35y$



TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

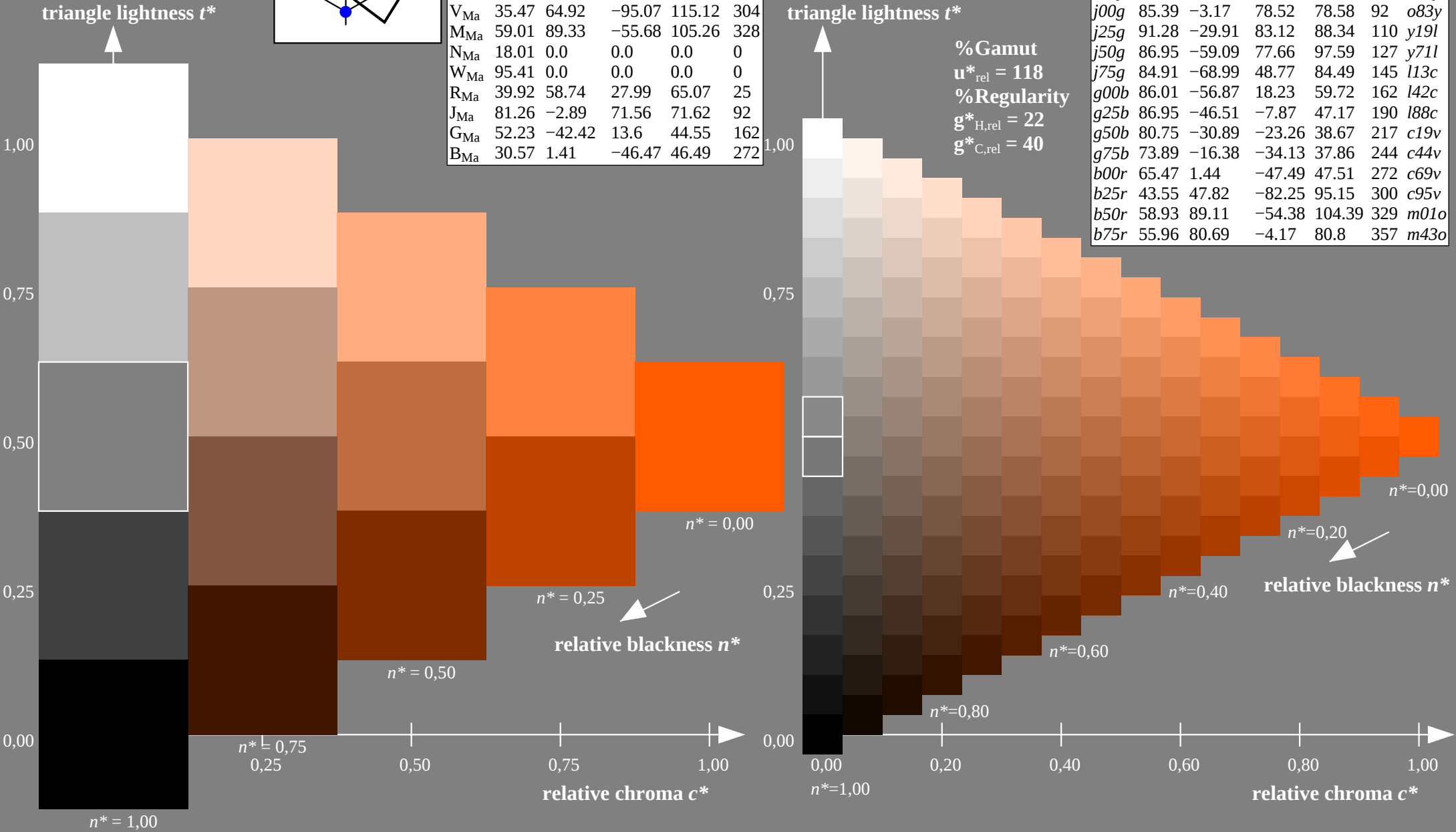
$LAB^*LAB^*_{Ma}$: 67 38 63

$LAB^*LCH^*_{Ma}$: 67 73 58

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

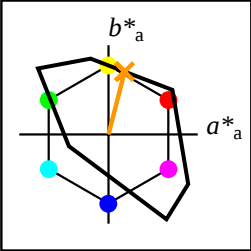
$lab^*olv^*_{Ma}$: 1.0 0.35 0.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = r75j$ $d^* = o59y$

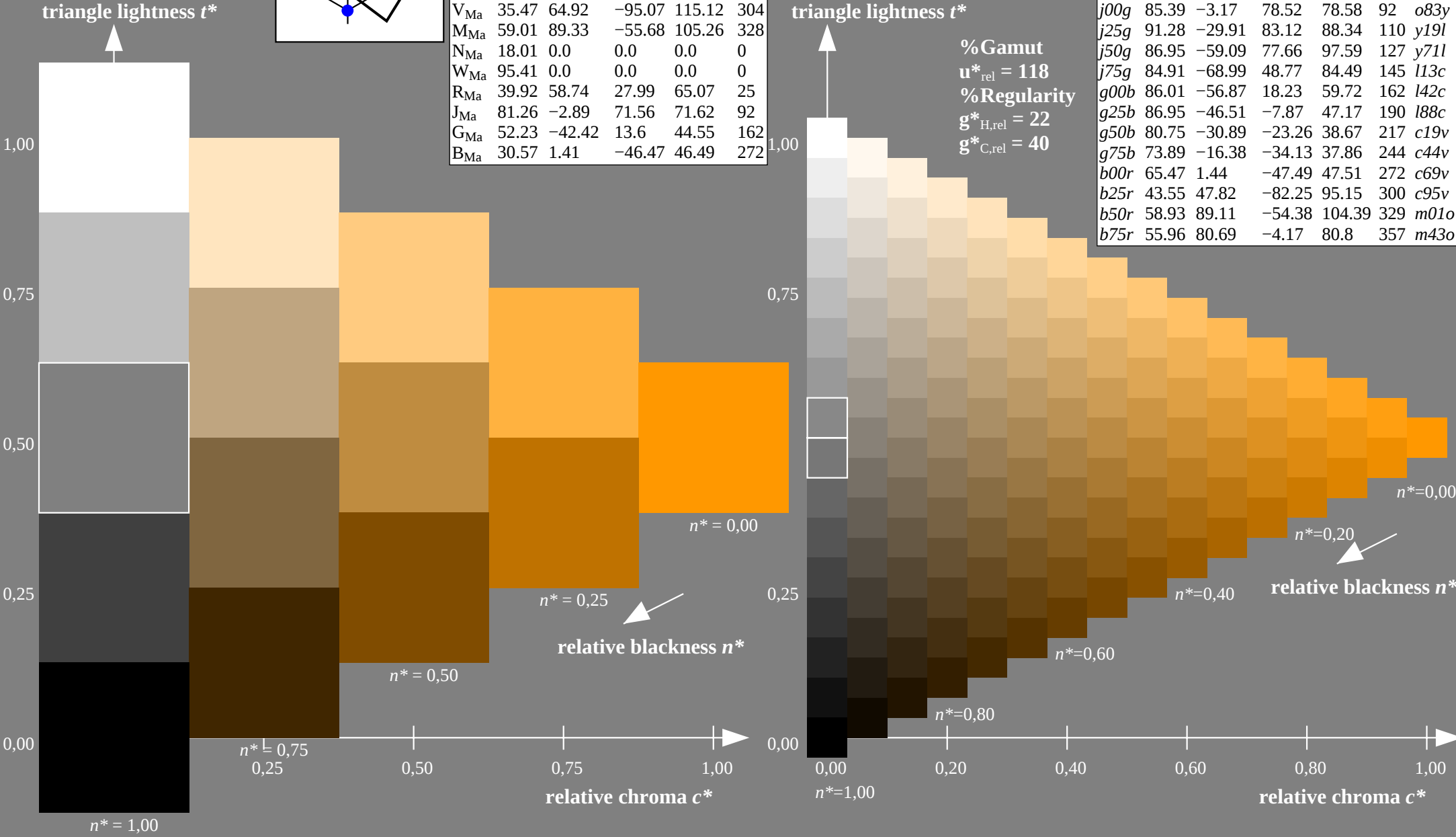


TLS18a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	52.76	71.63	49.88	87.29	35	
Y _{Ma}	92.74	-20.03	84.97	87.3	103	
L _{Ma}	84.0	-78.99	73.94	108.2	137	
C _{Ma}	87.14	-44.42	-13.12	46.32	196	
V _{Ma}	35.47	64.92	-95.07	115.12	304	
M _{Ma}	59.01	89.33	-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	
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):

$LAB^*LAB^*_{Ma}$: 76 18 70
 $LAB^*LCH^*_{Ma}$: 76 73 75
 $lab^*rgb^*_{Ma}$: 1.0 0.75 0.0
 $lab^*olv^*_{Ma}$: 1.0 0.6 0.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	

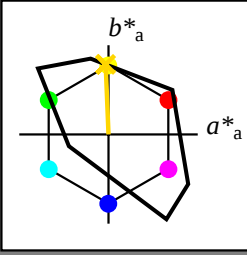


Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ $u^* = j00g$

data for any colour:

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

$u^* = j00g$ $d^* = o83y$

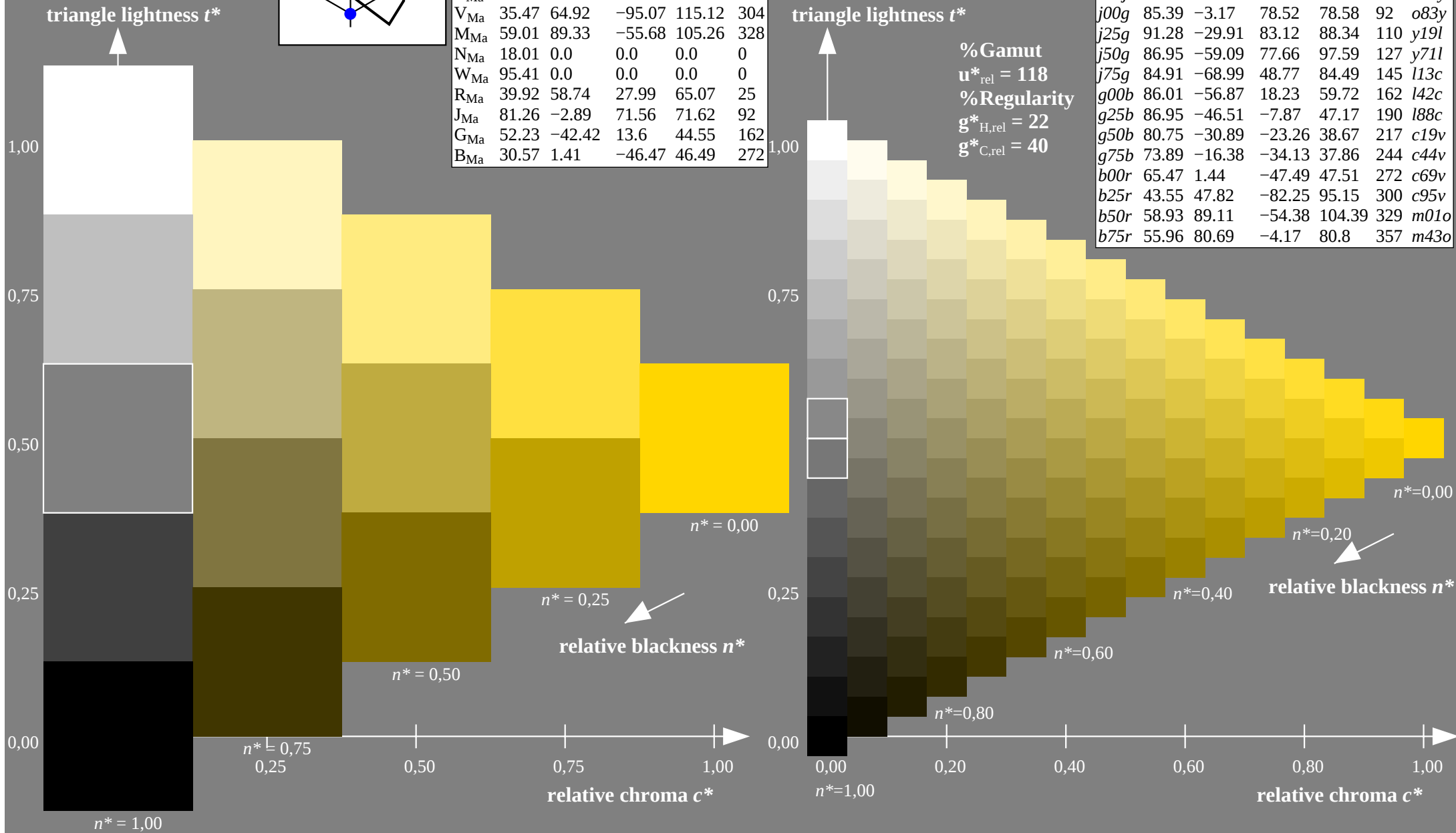


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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):

$LAB^*LAB^*_{Ma}$: 85 -3 79
 $LAB^*LCH^*_{Ma}$: 85 79 92
 $lab^*rgb^*_{Ma}$: 1.0 1.0 0.0
 $lab^*olv^*_{Ma}$: 1.0 0.84 0.0

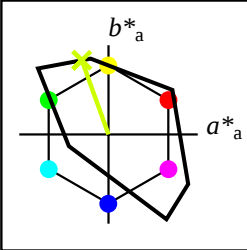
TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



data for any colour:

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

$u^* = j25g$ $d^* = y19l$



TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

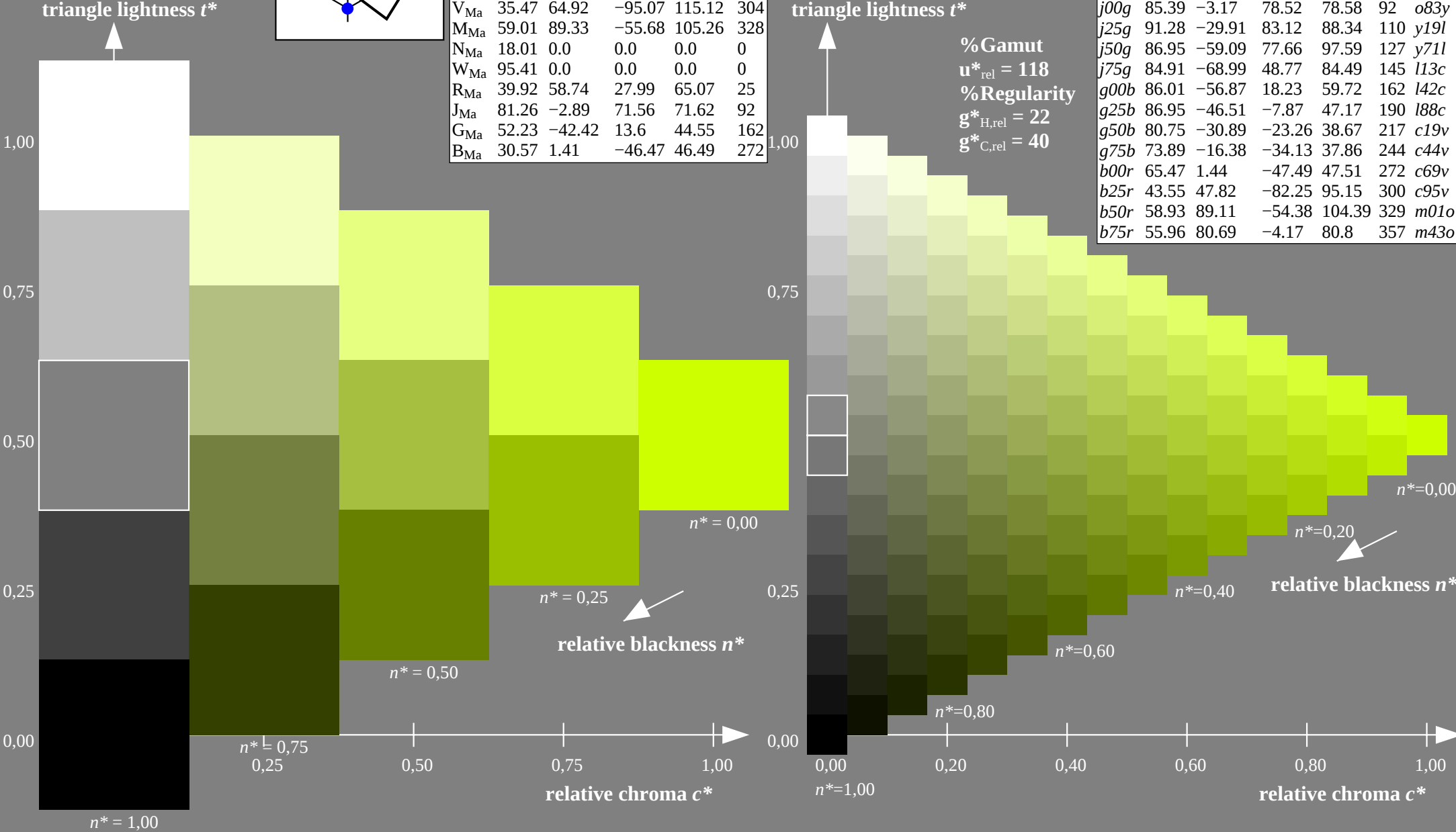
$LAB^*LAB^*_{Ma}$: 91 -30 83

$LAB^*LCH^*_{Ma}$: 91 88 109

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

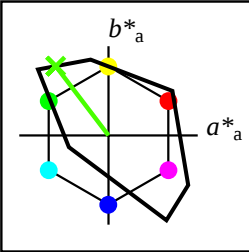
$lab^*olv^*_{Ma}$: 0.81 1.0 0.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = j50g$ $d^* = y71l$



TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

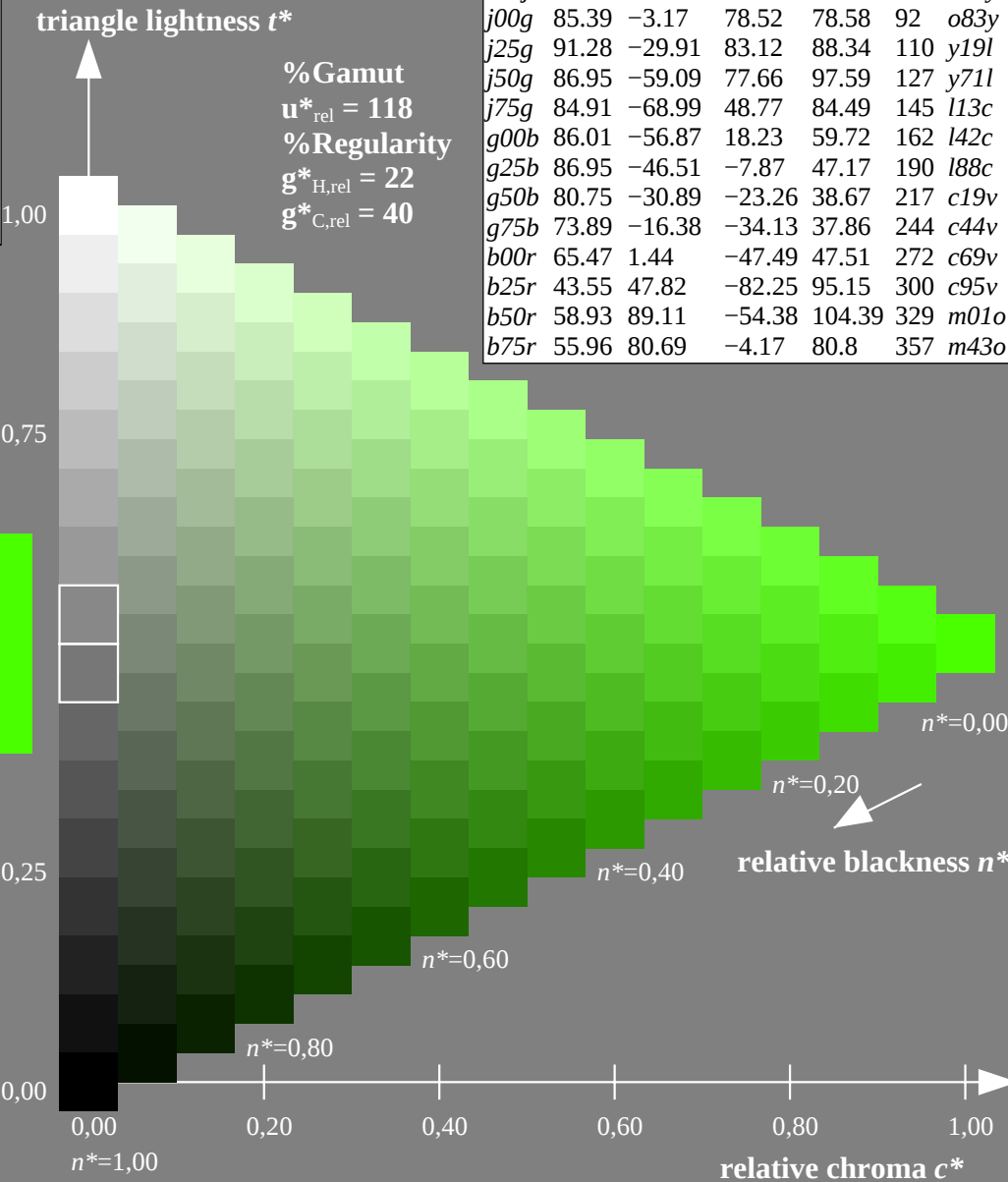
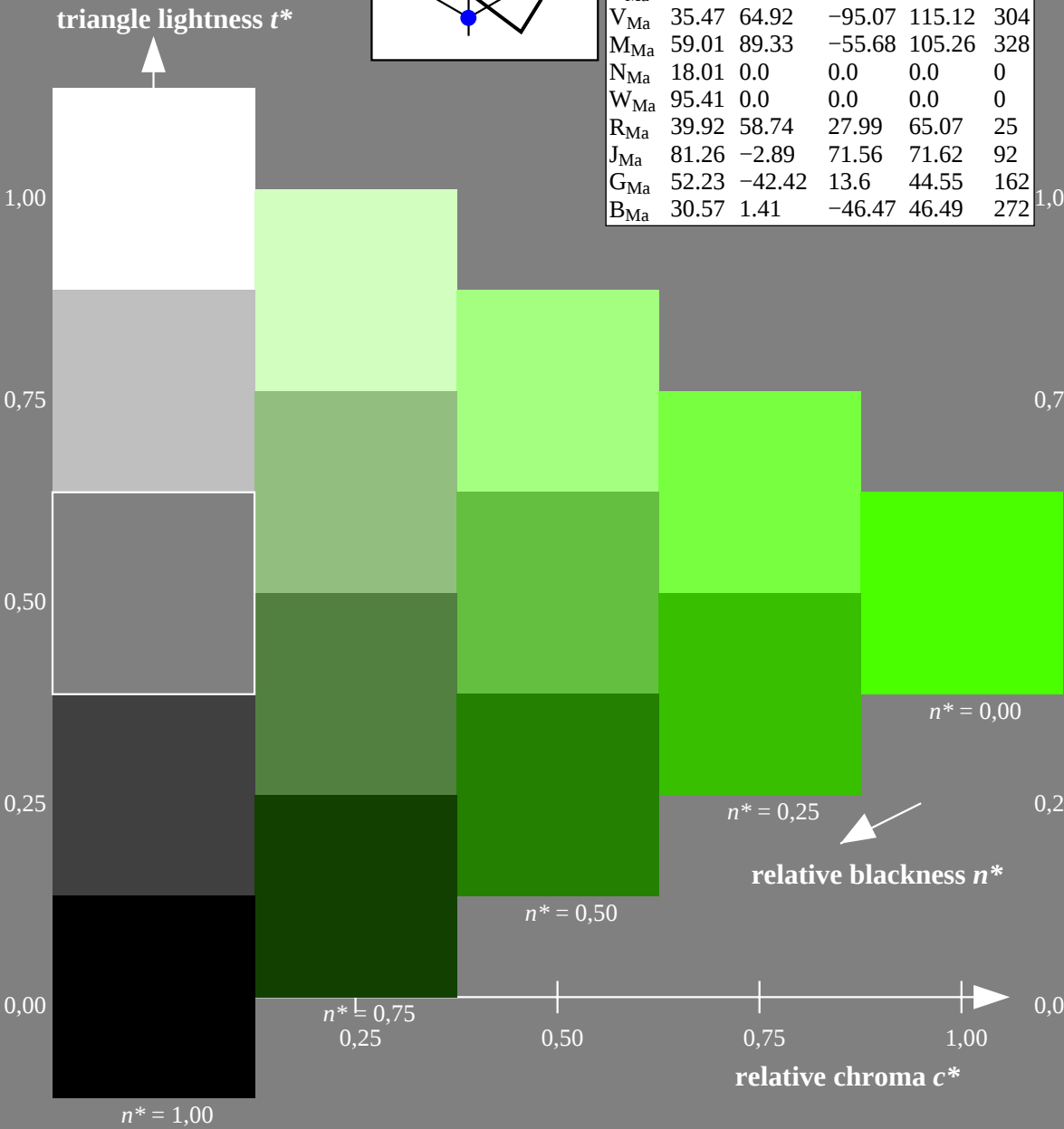
$LAB^*LAB^*_{Ma}$: 87 -59 78

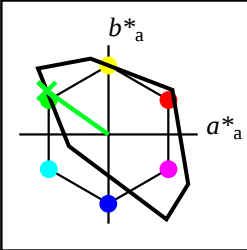
$LAB^*LCH^*_{Ma}$: 87 98 127

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

$lab^*olv^*_{Ma}$: 0.29 1.0 0.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	





TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

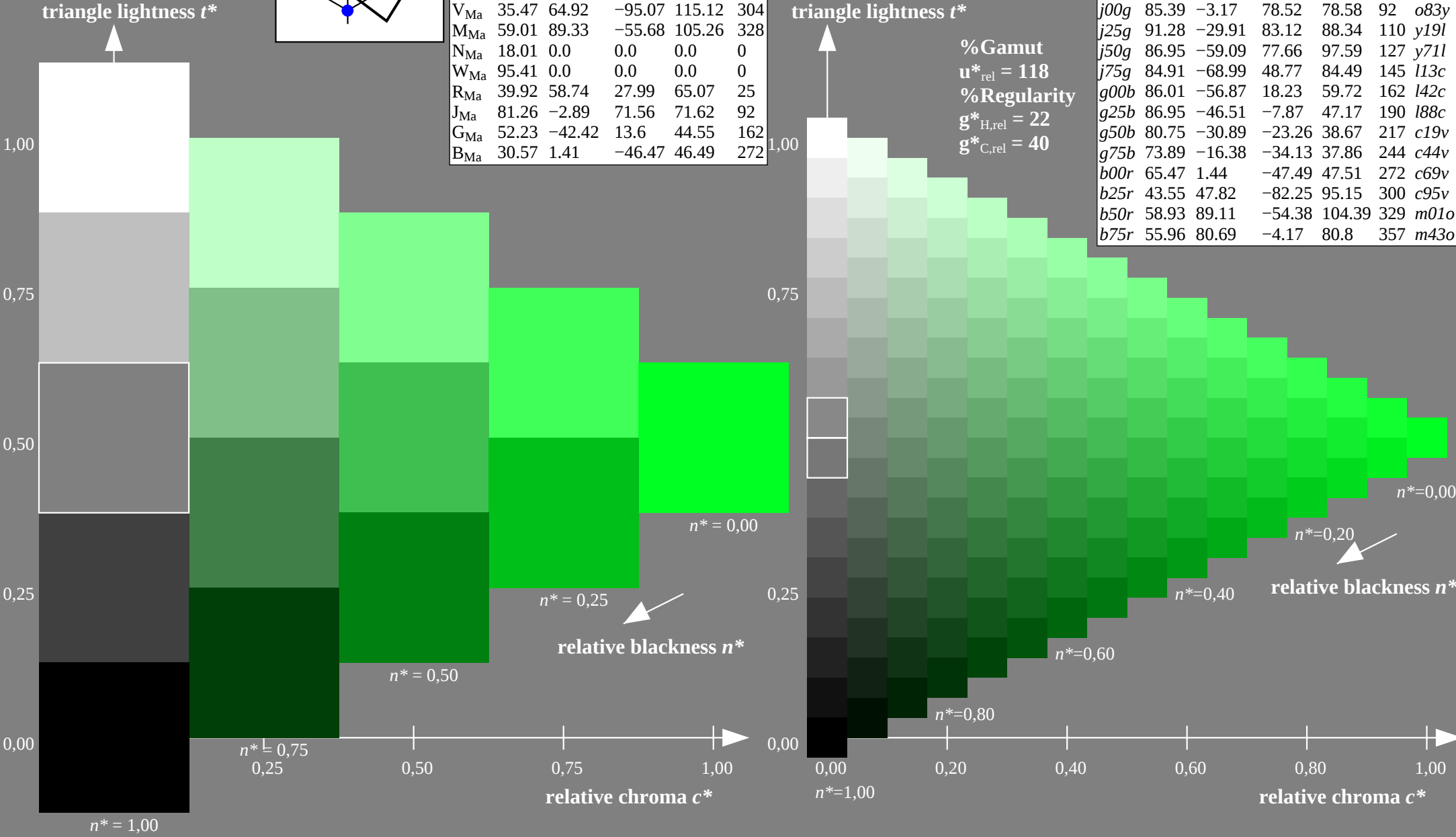
LAB*LAB*Ma: 85 -69 49

LAB*LCH*Ma: 85 84 144

lab*rgb*Ma: 0.25 1.0 0.0

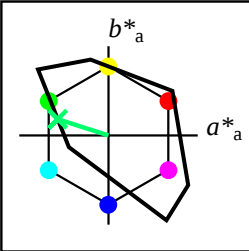
lab*olv*Ma: 0.0 1.0 0.13

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = g00b$ $d^* = l42c$

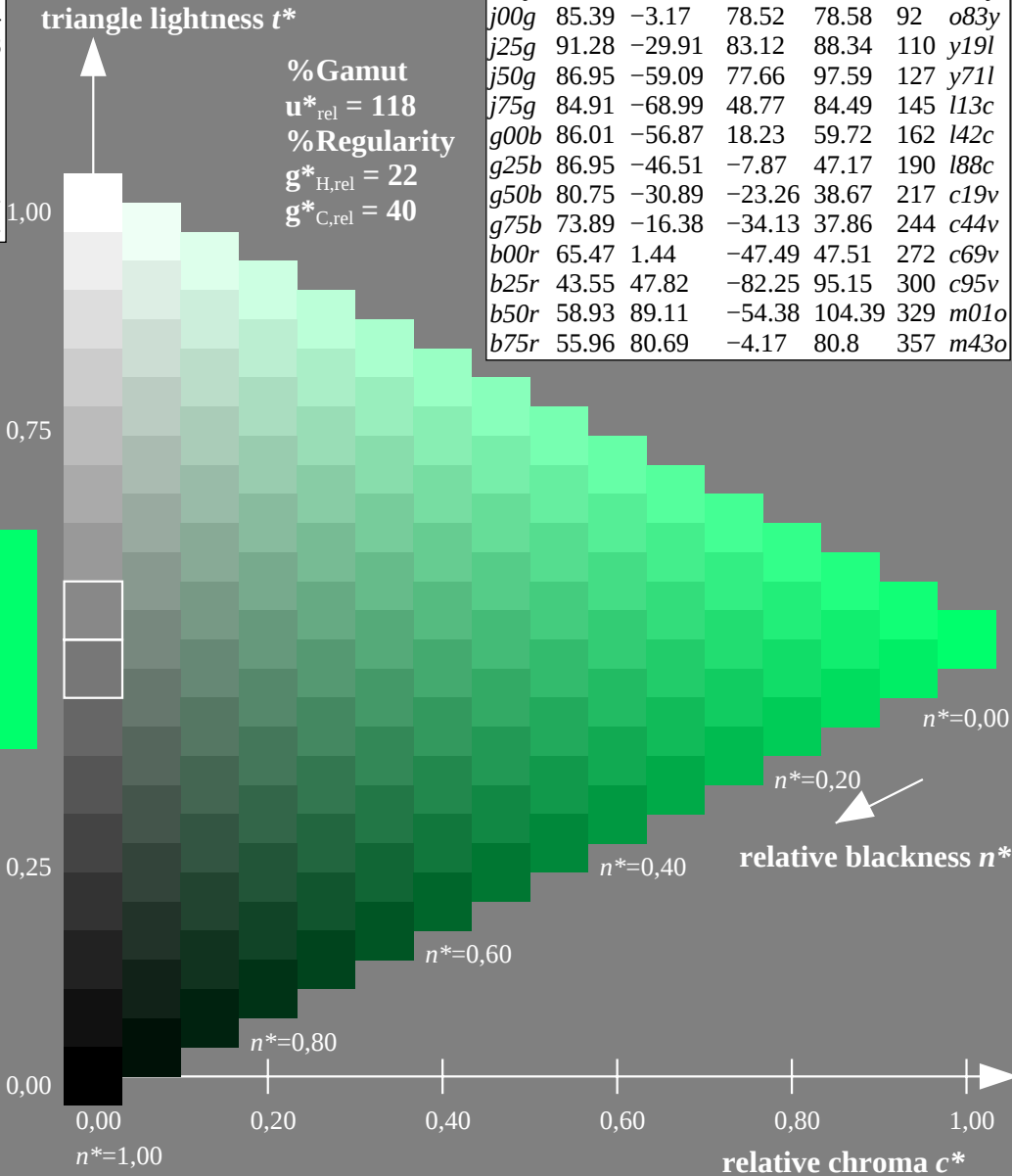
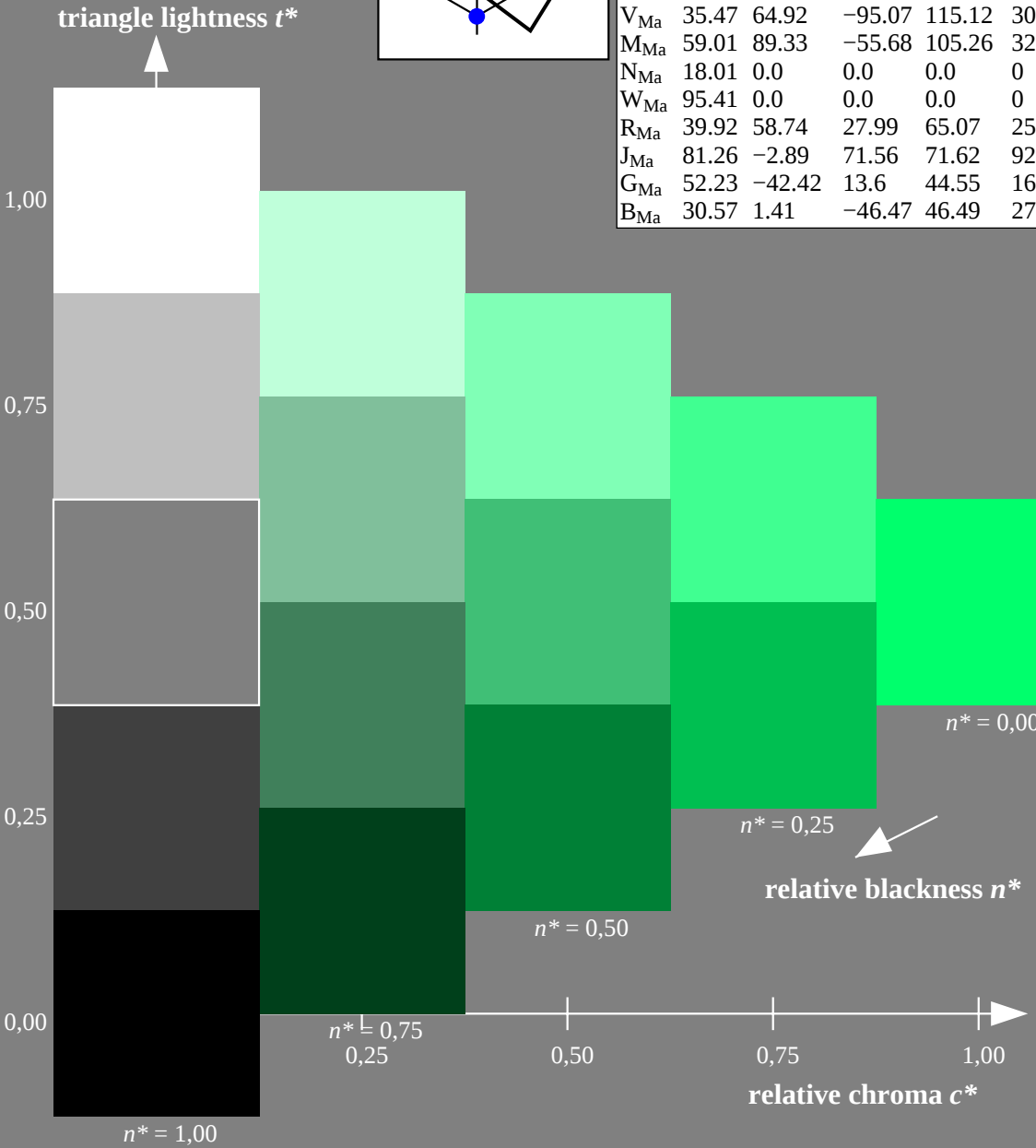


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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):

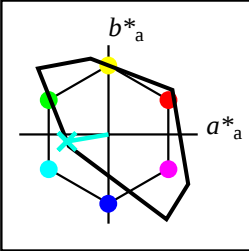
$LAB^*LAB^*_{Ma}$: 86 -57 18
 $LAB^*LCH^*_{Ma}$: 86 60 162
 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
 $lab^*olv^*_{Ma}$: 0.0 1.0 0.43

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$
data for any colour:
 lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = g25b$ $d^* = l88c$

$u^* = g25b$



TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

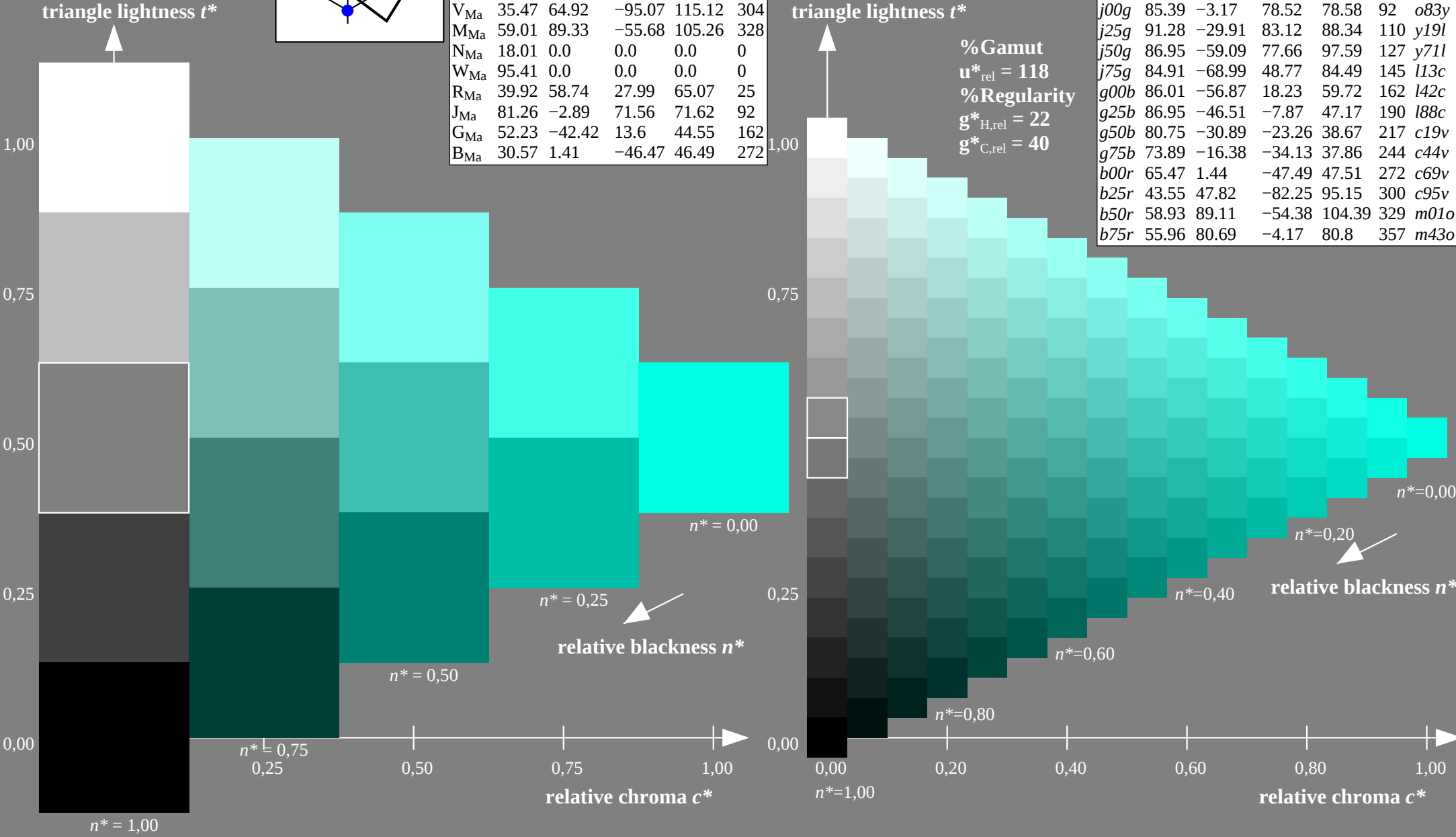
$LAB^*LAB^*_{Ma}$: 87 -47 -8

$LAB^*LCH^*_{Ma}$: 87 47 189

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

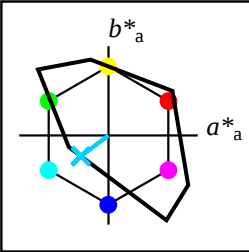
$lab^*olv^*_{Ma}$: 0.0 1.0 0.88

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = g50b$ $d^* = c19v$

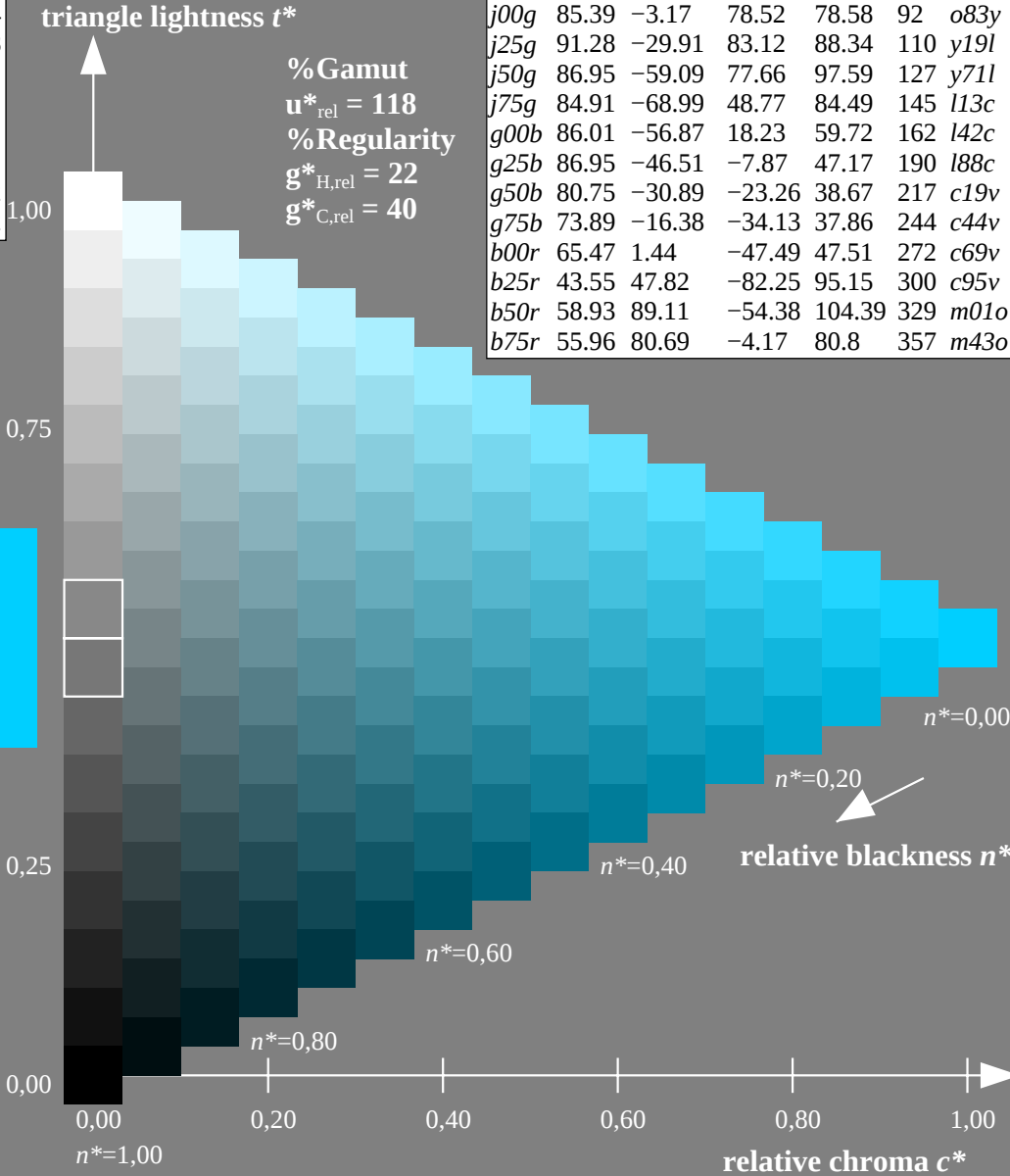
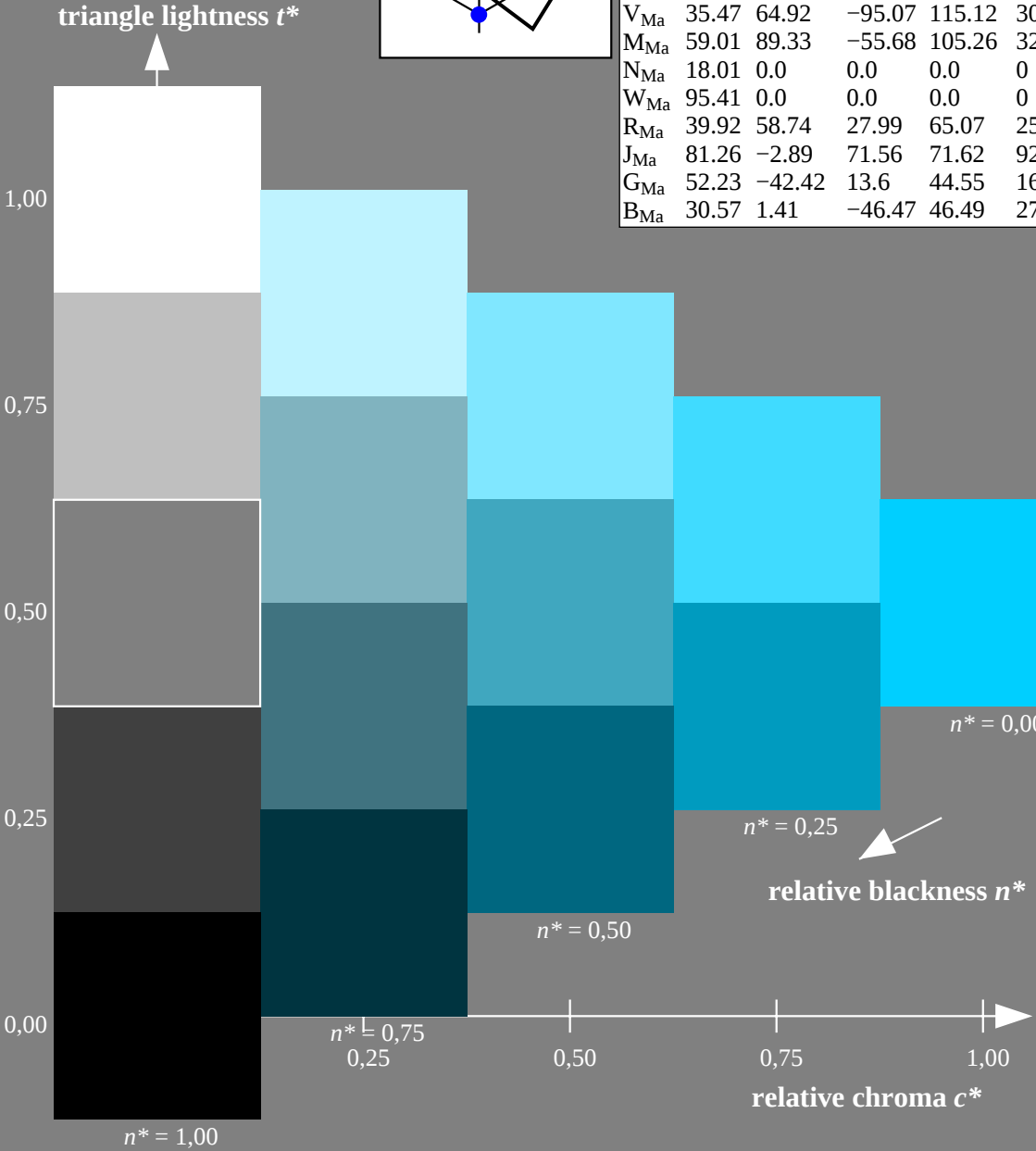


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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):

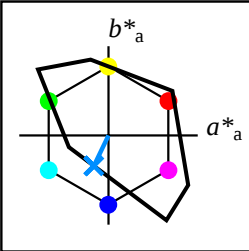
$LAB^*LAB^*_{Ma}$: 81 -31 -23
 $LAB^*LCH^*_{Ma}$: 81 39 216
 $lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
 $lab^*olv^*_{Ma}$: 0.0 0.81 1.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$
data for any colour:

lab^*tch^* and lab^*ncu^*
elementary and device
hue text:
 $u^* = g75b$ $d^* = c44v$

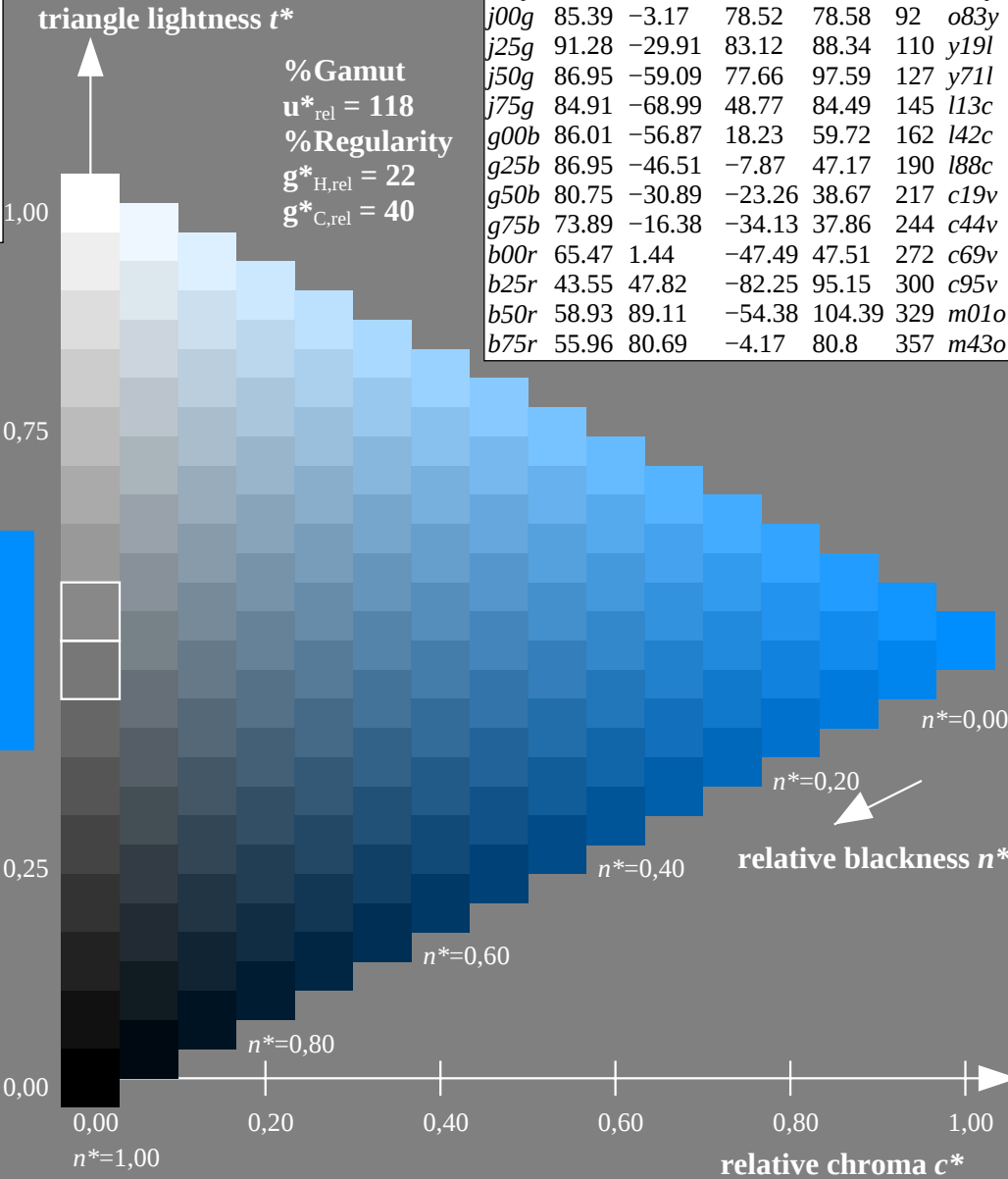
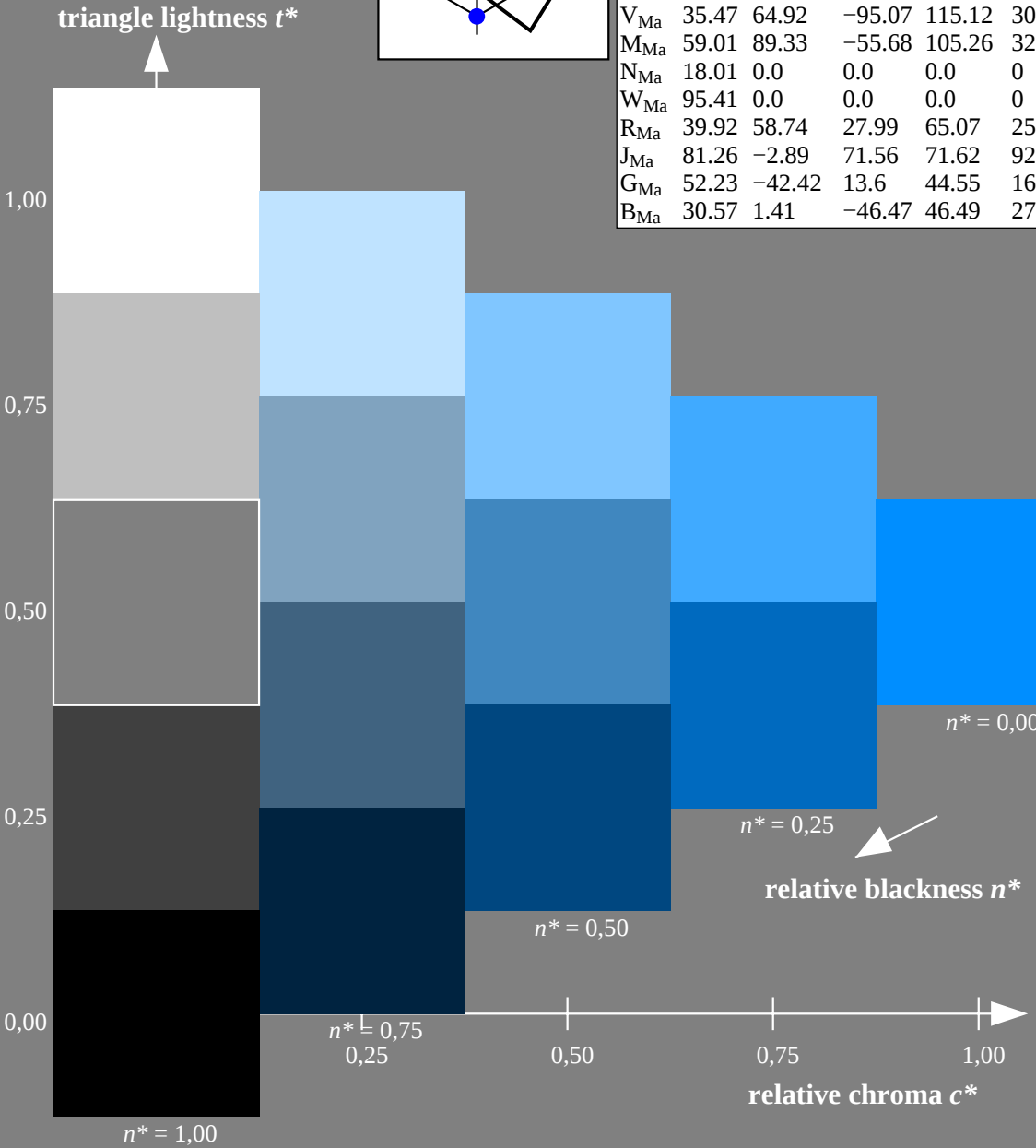


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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):

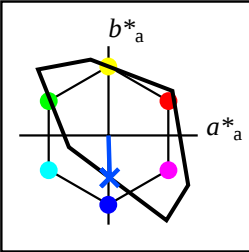
$LAB^*LAB^*_{Ma}$: 74 -16 -34
 $LAB^*LCH^*_{Ma}$: 74 38 244
 $lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
 $lab^*olv^*_{Ma}$: 0.0 0.56 1.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = b00r$ $d^* = c69v$

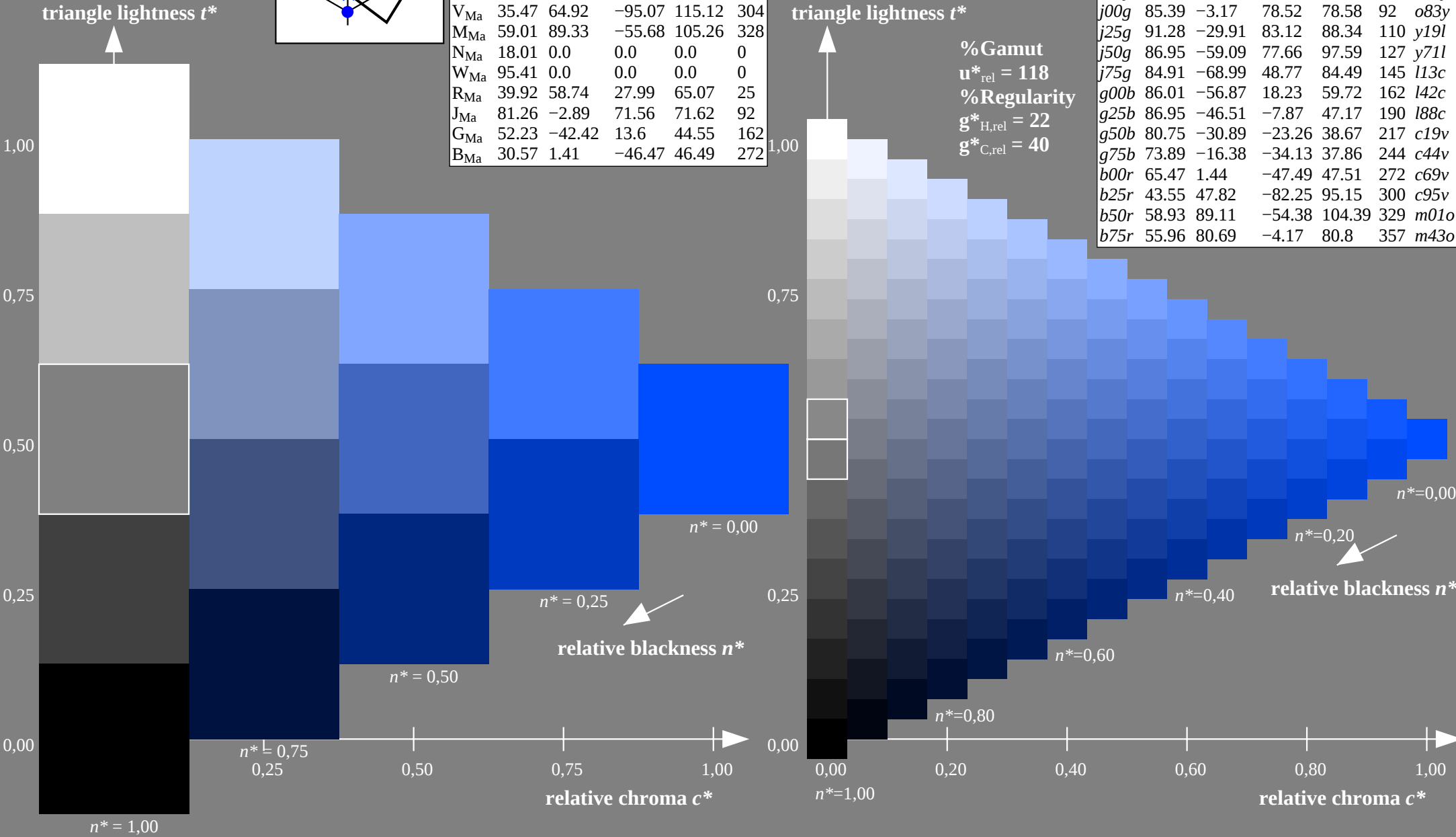


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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):

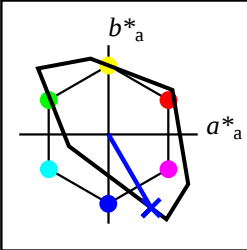
$LAB^*LAB^*_{Ma}$: 65 1 -47
 $LAB^*LCH^*_{Ma}$: 65 48 271
 $lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
 $lab^*olv^*_{Ma}$: 0.0 0.3 1.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = b25r$ $d^* = c95v$

$u^* = b25r$



TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

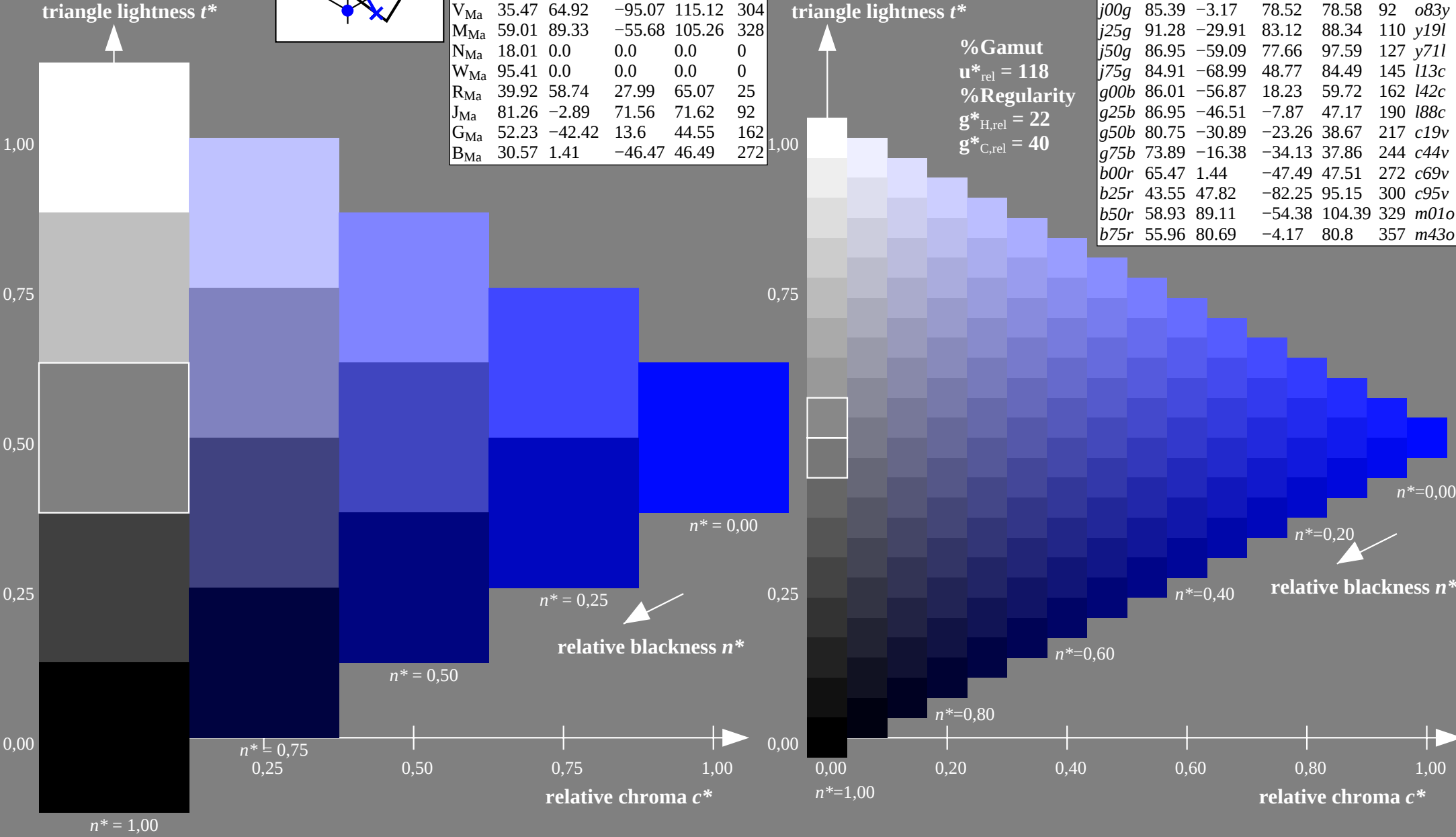
$LAB^*LAB^*_{Ma}$: 44 48 -82

$LAB^*LCH^*_{Ma}$: 44 95 300

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

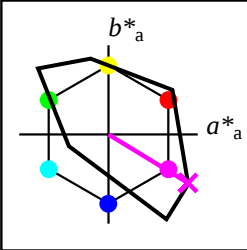
$lab^*olv^*_{Ma}$: 0.0 0.04 1.0

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = b50r$ $d^* = m01o$

$u^* = b50r$

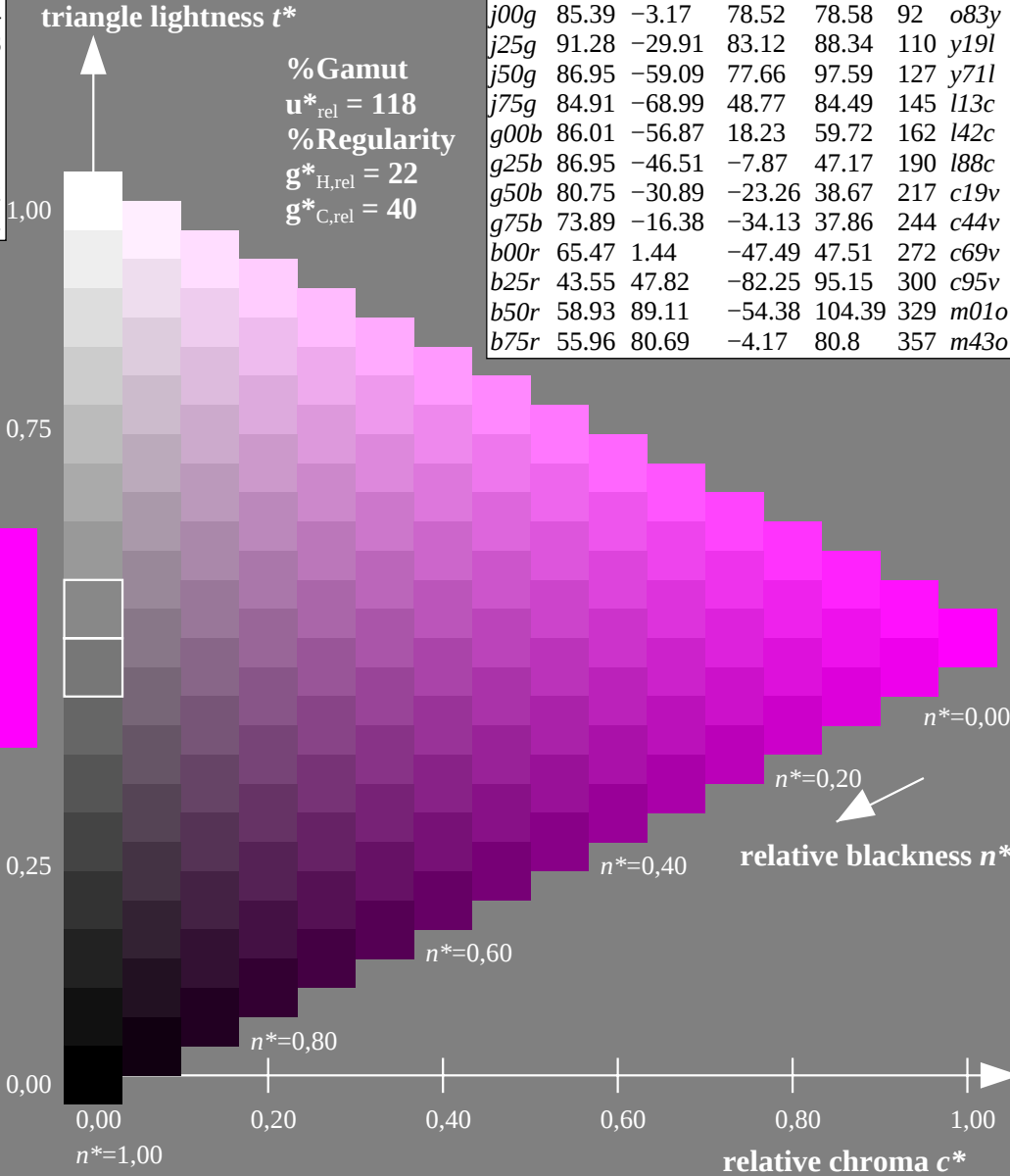
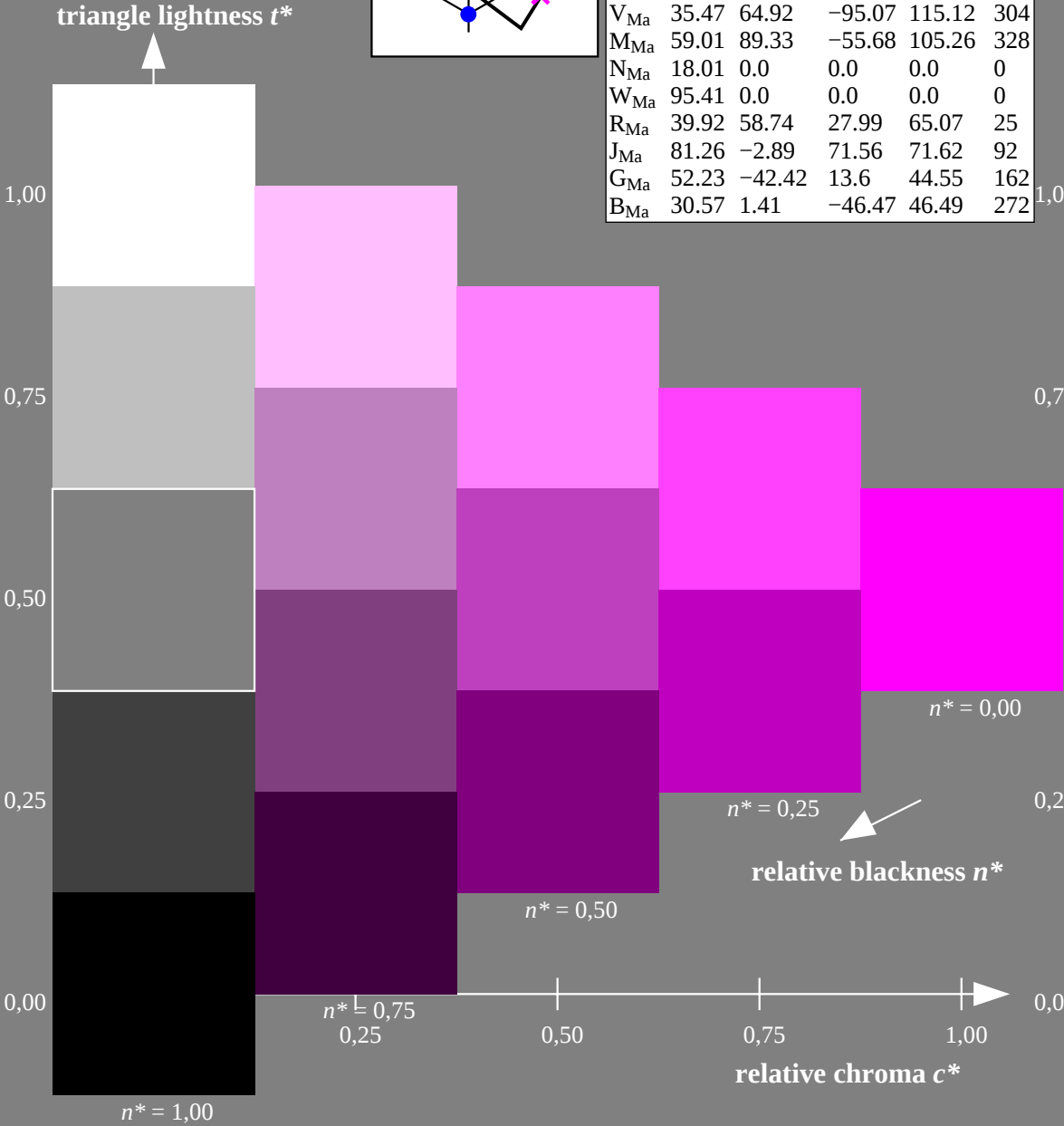


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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):

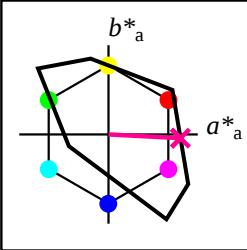
$LAB^*LAB^*_{Ma}$: 59 89 -54
 $LAB^*LCH^*_{Ma}$: 59 104 328
 $lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
 $lab^*olv^*_{Ma}$: 1.0 0.0 0.99

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	



Input and output: Colorimetric Television Luminous System TLS18a 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:
 $u^* = b75r$ $d^* = m43o$

$u^* = b75r$



TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	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
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):

$LAB^*LAB^*_{Ma}$: 56 81 -4
 $LAB^*LCH^*_{Ma}$: 56 81 357
 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
 $lab^*olv^*_{Ma}$: 1.0 0.0 0.57

TLS18a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	d^*	
r00j	53.62	74.08	35.3	82.06	25	m85o	
r25j	57.85	59.96	54.35	80.93	42	o11y	
r50j	67.48	37.89	62.8	73.34	59	o35y	
r75j	76.12	18.07	70.39	72.67	76	o59y	
j00g	85.39	-3.17	78.52	78.58	92	o83y	
j25g	91.28	-29.91	83.12	88.34	110	y19l	
j50g	86.95	-59.09	77.66	97.59	127	y71l	
j75g	84.91	-68.99	48.77	84.49	145	l13c	
g00b	86.01	-56.87	18.23	59.72	162	l42c	
g25b	86.95	-46.51	-7.87	47.17	190	l88c	
g50b	80.75	-30.89	-23.26	38.67	217	c19v	
g75b	73.89	-16.38	-34.13	37.86	244	c44v	
b00r	65.47	1.44	-47.49	47.51	272	c69v	
b25r	43.55	47.82	-82.25	95.15	300	c95v	
b50r	58.93	89.11	-54.38	104.39	329	m01o	
b75r	55.96	80.69	-4.17	80.8	357	m43o	

