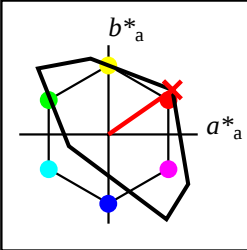


Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.097$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = o00y$ $u^* = r14j$

$d^* = o00y$



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
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

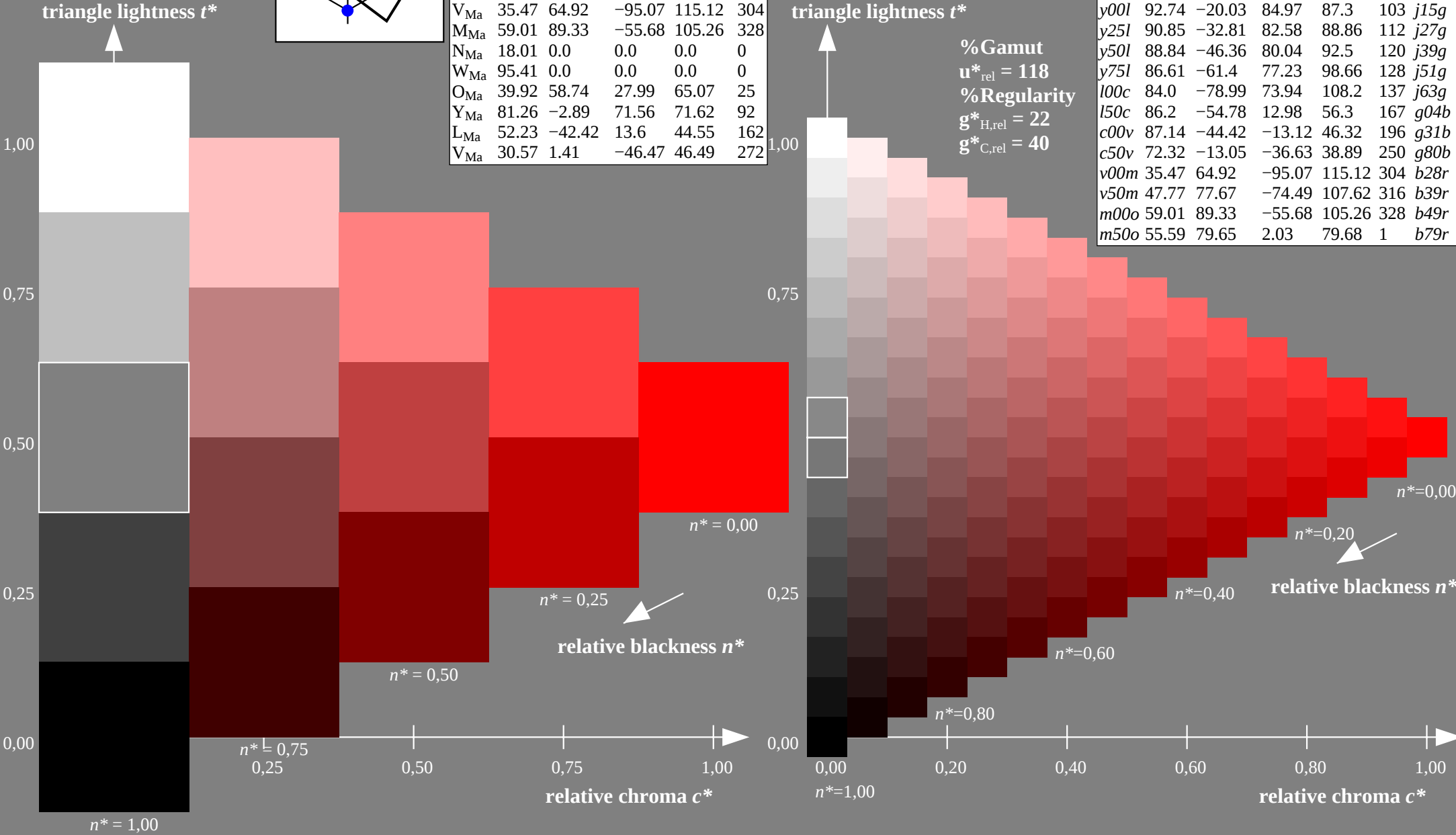
$LAB^*LAB^*_{Ma}$: 53 72 50

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

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

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

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



$$d^* = 0.25y$$

Data for maximum colour (Ma):

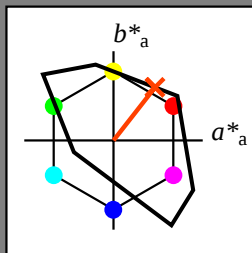
LAB*LAB*_{Ma}: 64 47 59

LAB*LCH*Ma: 64 76 51

lab*olv*Ma: 1.0 0.25 0.0

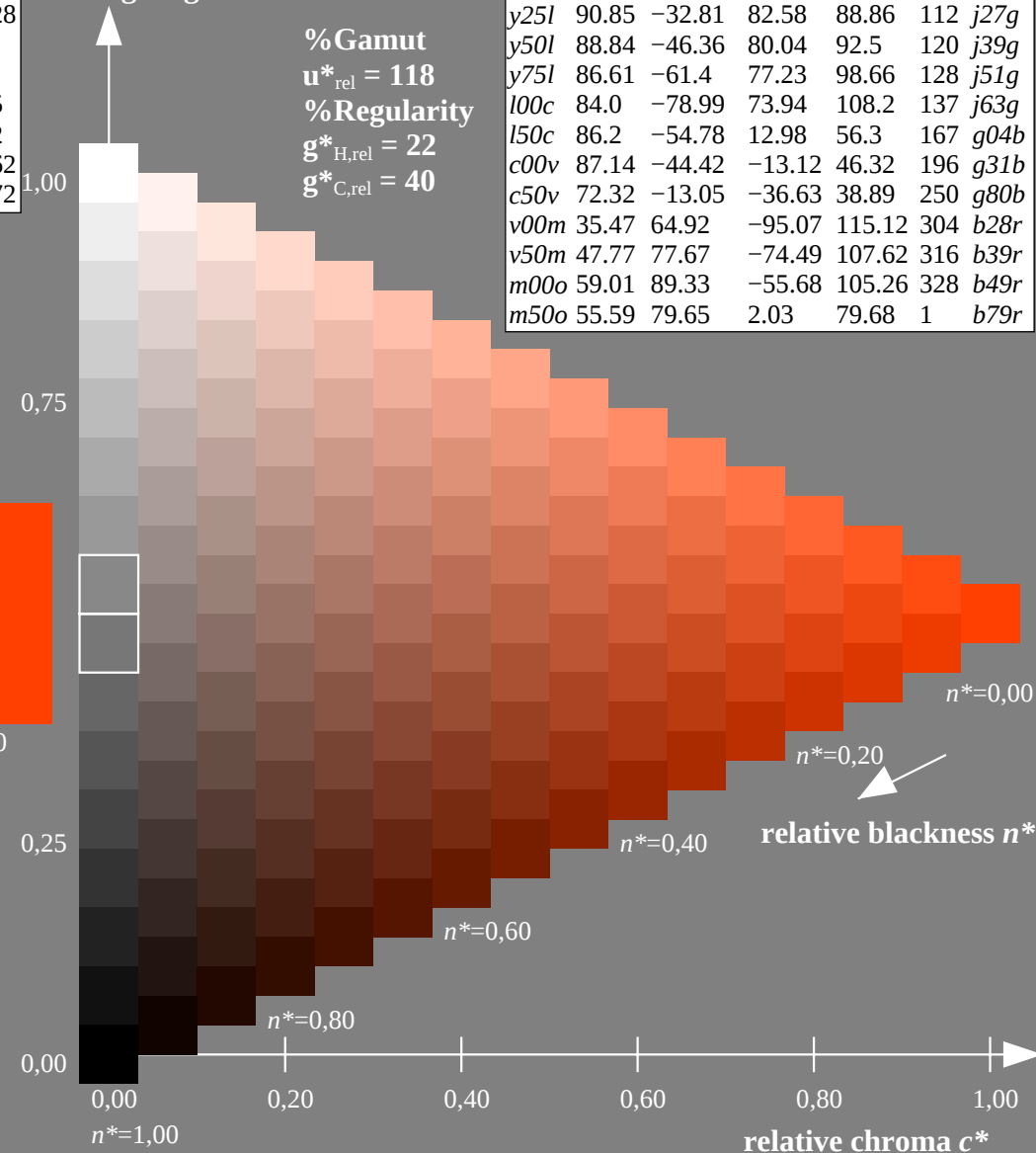
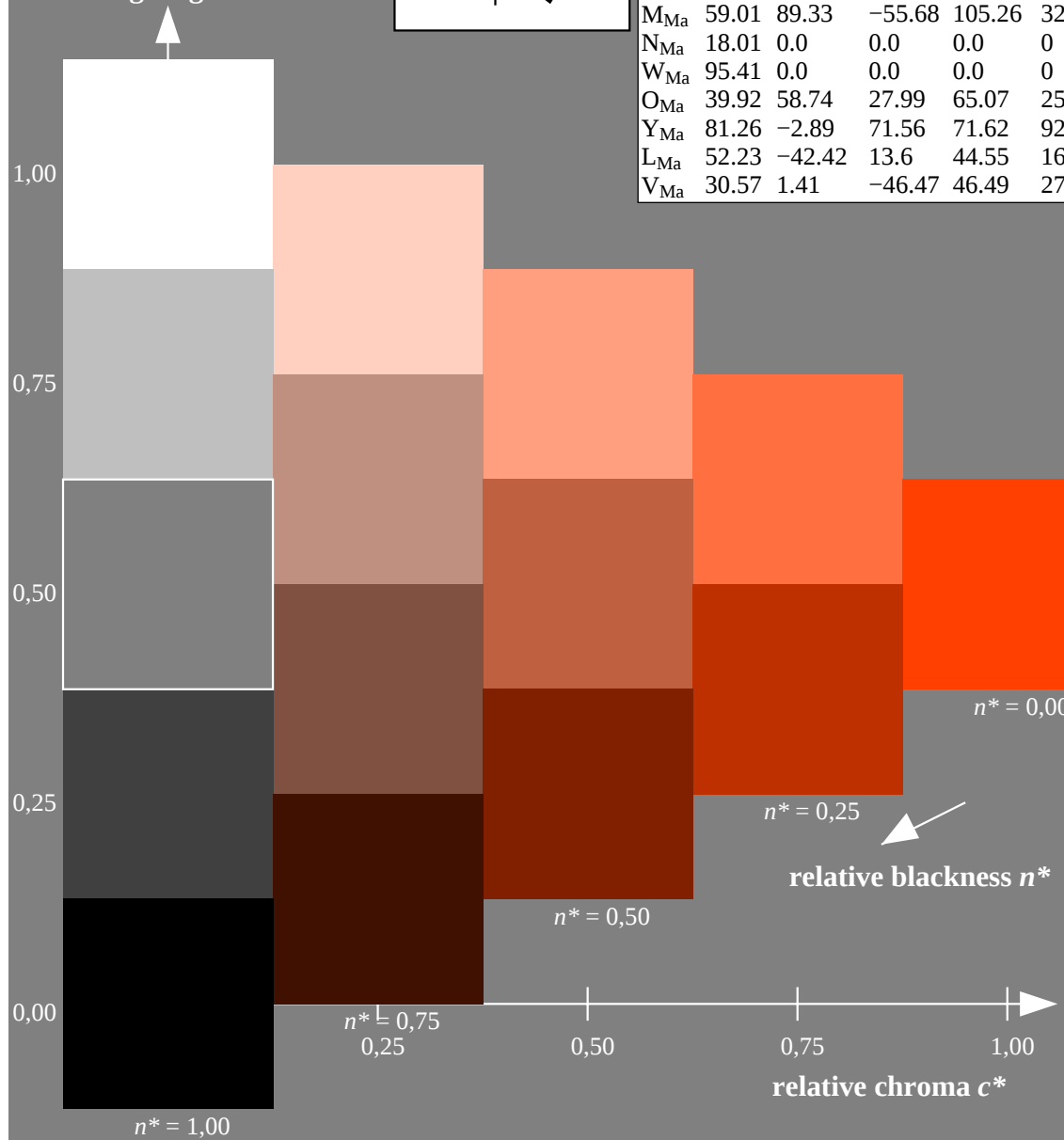
triangle lightness t^*

triangle lightness t^*



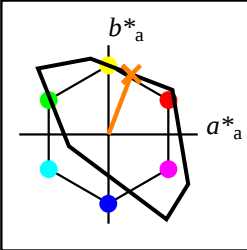
TLS18a; adapted (a) CIELAB data					
Name	L^*_{a}	a^*_{a}	b^*_{a}	$C^*_{\text{ab,a}}$	$h^*_{\text{ab,a}}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01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

TLS18a; adapted (a) CIELAB data						
d^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*
<i>o00y</i>	52.76	71.63	49.88	87.29	35	<i>r14i</i>
<i>o25y</i>	63.7	46.55	59.48	75.53	52	<i>r39j</i>
<i>o50y</i>	72.75	25.8	67.42	72.19	69	<i>r65j</i>
<i>o75y</i>	81.8	5.06	75.37	75.54	86	<i>r90j</i>
<i>y00l</i>	92.74	-20.03	84.97	87.3	103	<i>j15g</i>
<i>y25l</i>	90.85	-32.81	82.58	88.86	112	<i>j27g</i>
<i>y50l</i>	88.84	-46.36	80.04	92.5	120	<i>j39g</i>
<i>y75l</i>	86.61	-61.4	77.23	98.66	128	<i>j51g</i>
<i>l00c</i>	84.0	-78.99	73.94	108.2	137	<i>j63g</i>
<i>l50c</i>	86.2	-54.78	12.98	56.3	167	<i>g04b</i>
<i>c00v</i>	87.14	-44.42	-13.12	46.32	196	<i>g31b</i>
<i>c50v</i>	72.32	-13.05	-36.63	38.89	250	<i>g80b</i>
<i>v00m</i>	35.47	64.92	-95.07	115.12	304	<i>b28r</i>
<i>v50m</i>	47.77	77.67	-74.49	107.62	316	<i>b39r</i>
<i>m00o</i>	59.01	89.33	-55.68	105.26	328	<i>b49r</i>
<i>m50o</i>	55.59	79.65	2.03	79.68	1	<i>b79r</i>



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.192$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = o50y$ $u^* = r65j$

$d^* = o50y$

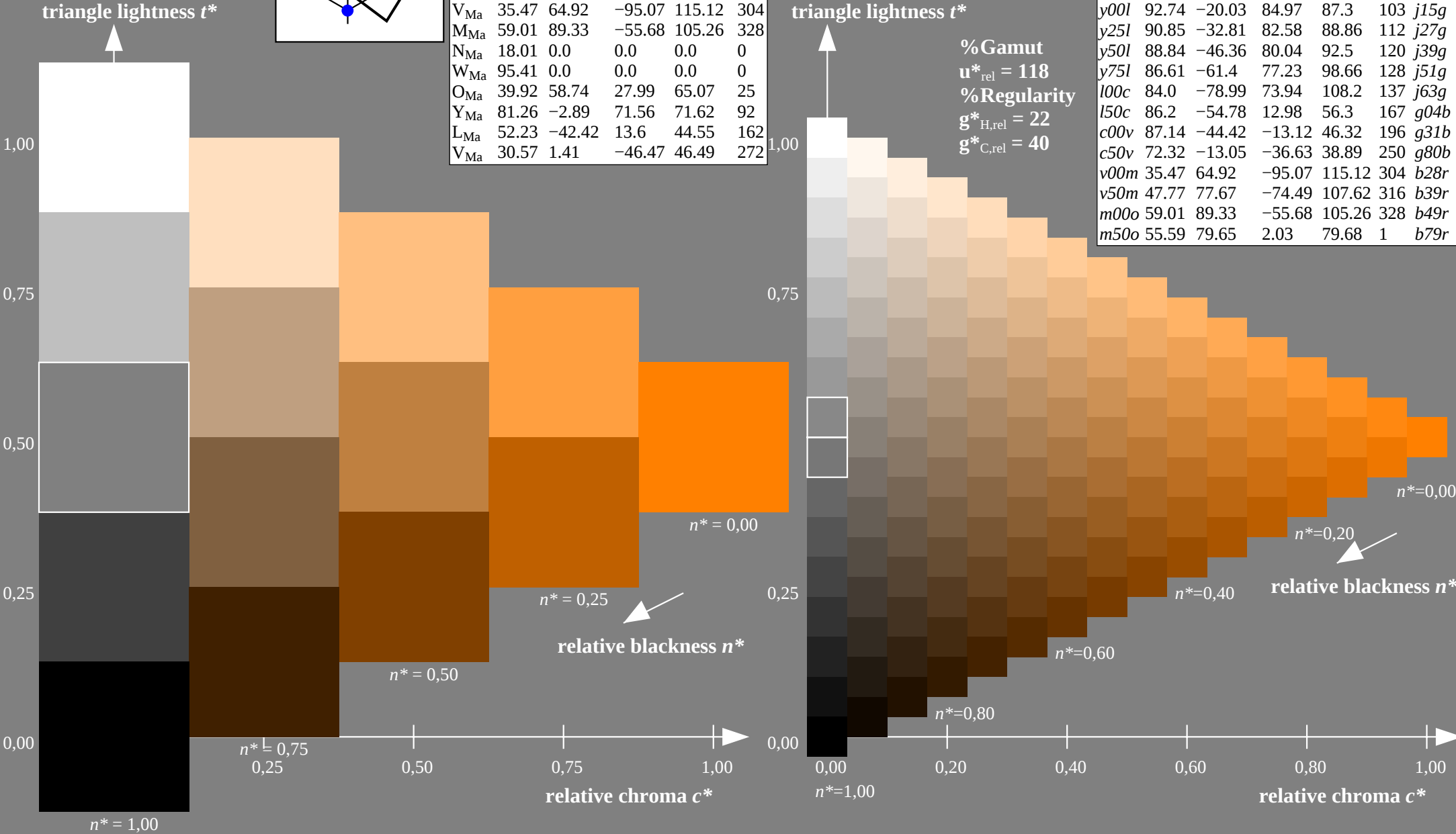


TLS18a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	52.76	71.63	49.88	87.29	35	
Y _{Ma}	92.74	-20.03	84.97	87.3	103	
L _{Ma}	84.0	-78.99	73.94	108.2	137	
C _{Ma}	87.14	-44.42	-13.12	46.32	196	
V _{Ma}	35.47	64.92	-95.07	115.12	304	
M _{Ma}	59.01	89.33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

Data for maximum colour (Ma):

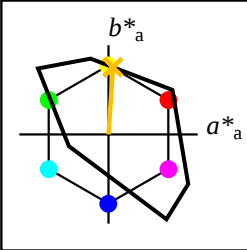
$LAB^*LAB^*_{Ma}$: 73 26 67
 $LAB^*LCH^*_{Ma}$: 73 72 69
 $lab^*olv^*_{Ma}$: 1.0 0.5 0.0
 $lab^*rgb^*_{Ma}$: 1.0 0.65 0.0

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.239$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = o75y$ $u^* = r90j$

$d^* = o75y$



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
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

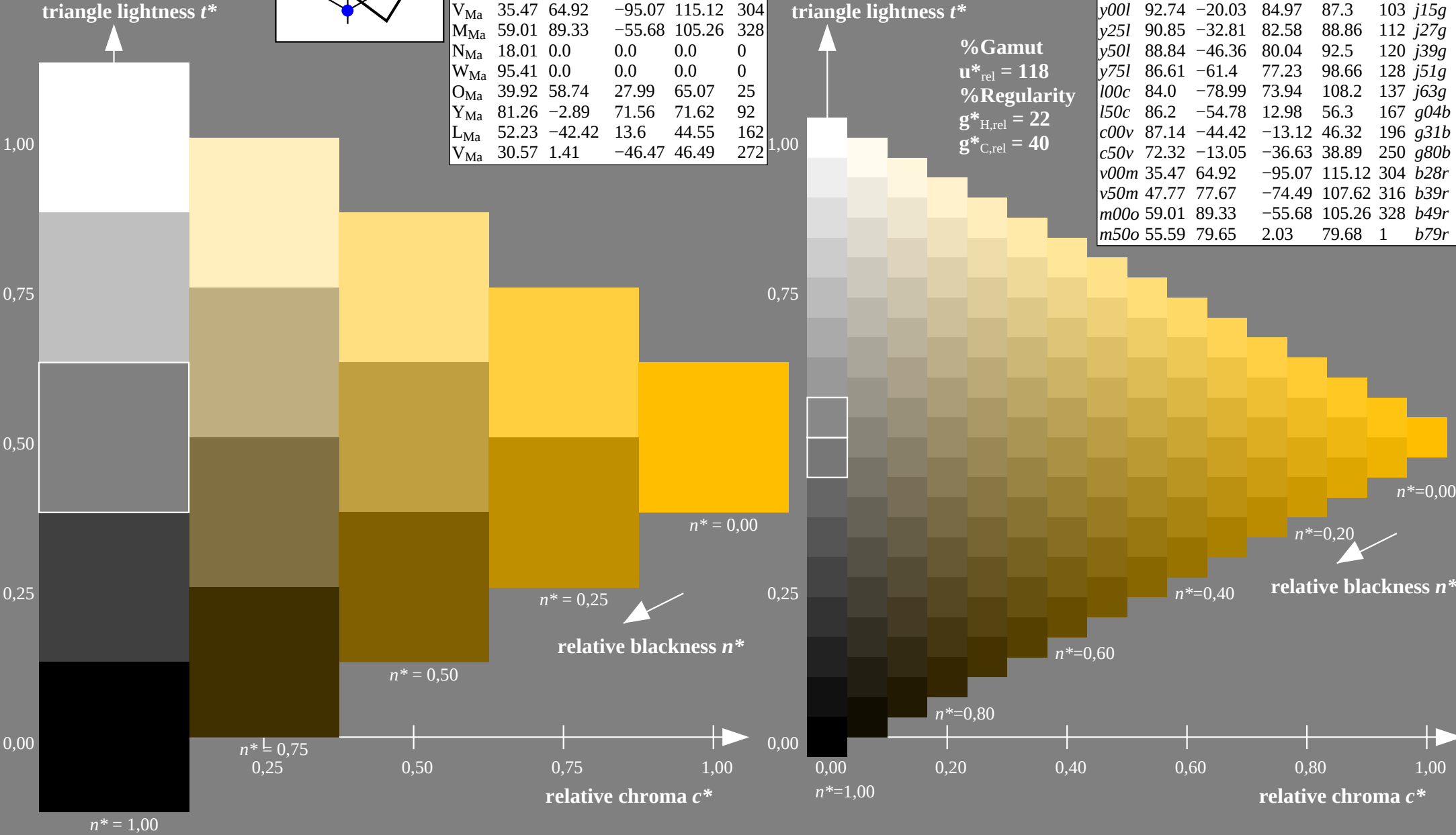
LAB*LAB*Ma: 82 5 75

LAB*LCH*Ma: 82 76 86

lab*olv*Ma: 1.0 0.75 0.0

lab*rgb*Ma: 1.0 0.91 0.0

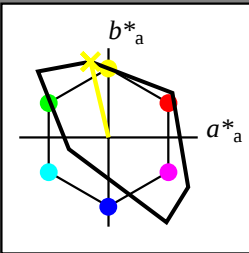
TLS18a; adapted (a) CIELAB data						
d^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*
o00y	52.76	71.63	49.88	87.29	35	r14j
o25y	63.7	46.55	59.48	75.53	52	r39j
o50y	72.75	25.8	67.42	72.19	69	r65j
o75y	81.8	5.06	75.37	75.54	86	r90j
y00l	92.74	-20.03	84.97	87.3	103	j15g
y25l	90.85	-32.81	82.58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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.287$ $d^* = y00l$

data for any colour:

lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = y00l$ $u^* = j15g$

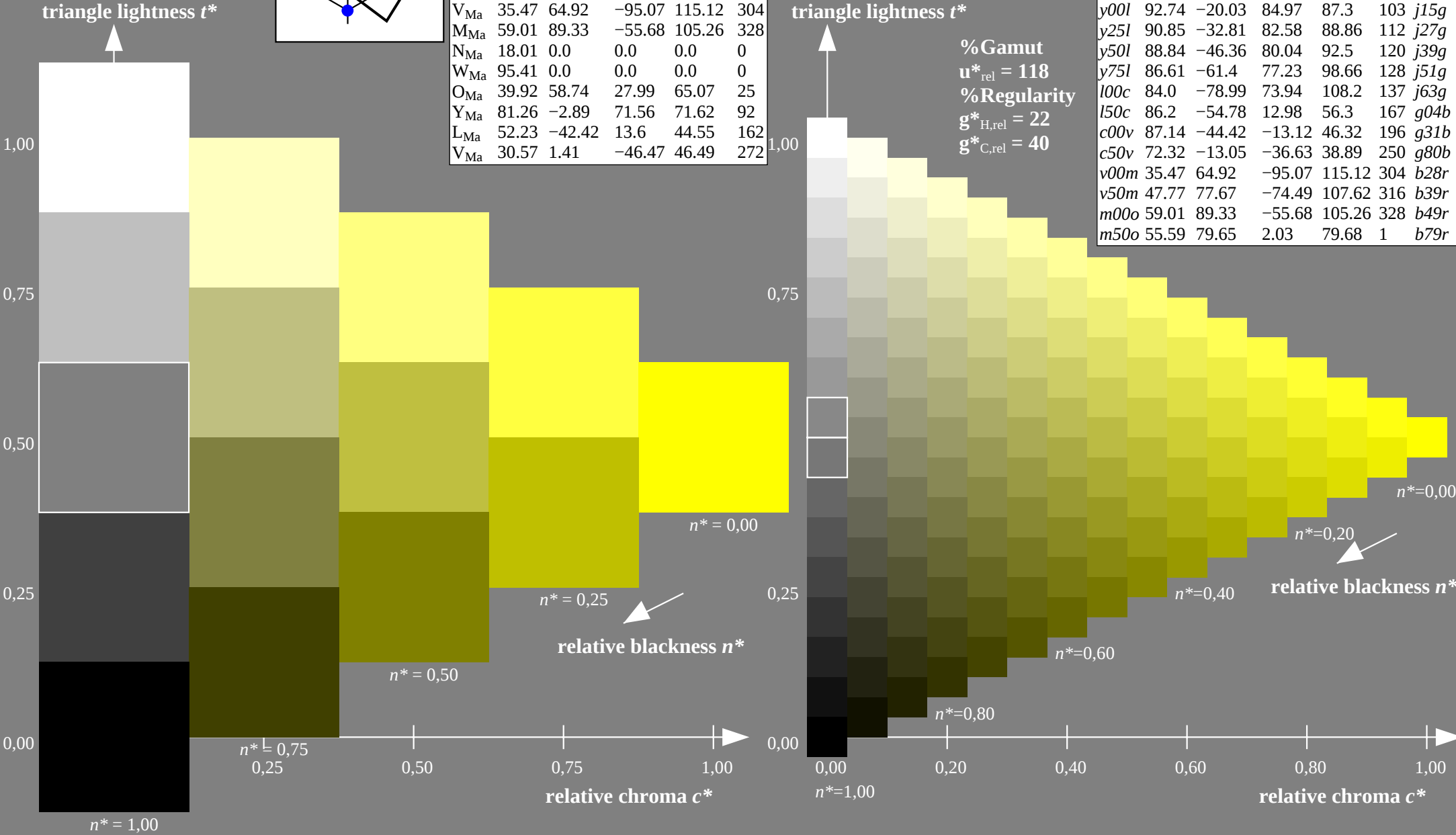


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68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

Data for maximum colour (Ma):

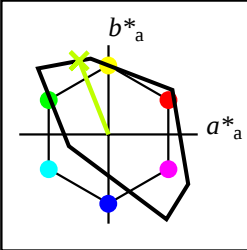
$LAB^*LAB^*_{Ma}$: 93 -20 85
 $LAB^*LCH^*_{Ma}$: 93 87 103
 $lab^*olv^*_{Ma}$: 1.0 1.0 0.0
 $lab^*rgb^*_{Ma}$: 0.84 1.0 0.0

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.31$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = y25l$ $u^* = j27g$

$d^* = y25l$

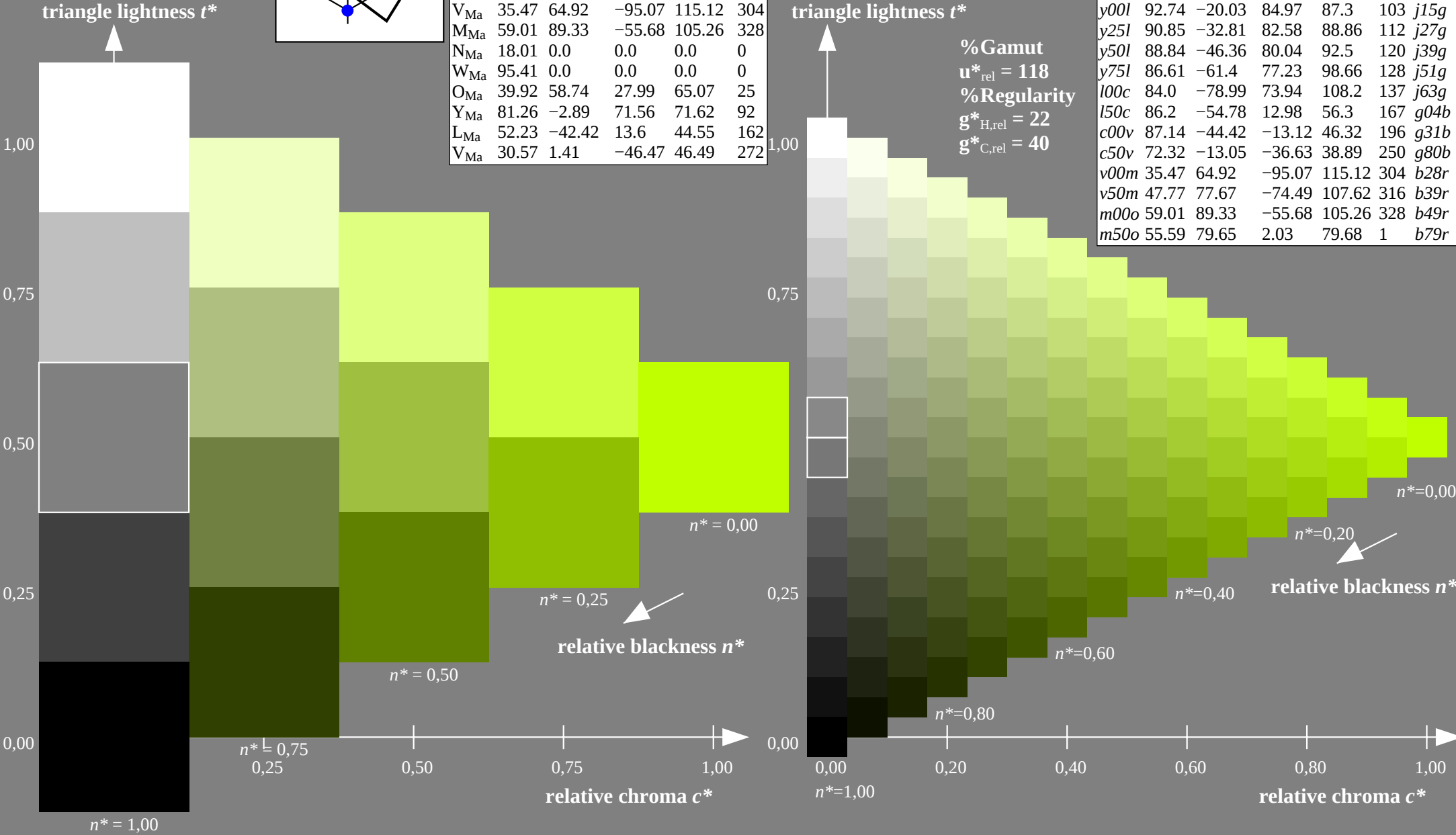


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68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

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 91 -33 83
 $LAB^*LCH^*_{Ma}$: 91 89 111
 $lab^*olv^*_{Ma}$: 0.75 1.0 0.0
 $lab^*rgb^*_{Ma}$: 0.72 1.0 0.0

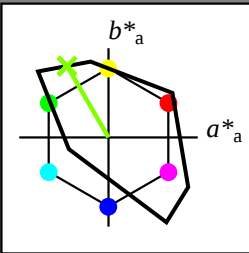
TLS18a; adapted (a) CIELAB data							
d^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*	
o00y	52.76	71.63	49.88	87.29	35	$r14j$	
o25y	63.7	46.55	59.48	75.53	52	$r39j$	
o50y	72.75	25.8	67.42	72.19	69	$r65j$	
o75y	81.8	5.06	75.37	75.54	86	$r90j$	
y00l	92.74	-20.03	84.97	87.3	103	$j15g$	
y25l	90.85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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.334$ $d^* = y50l$

data for any colour:

lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = y50l$ $u^* = j39g$

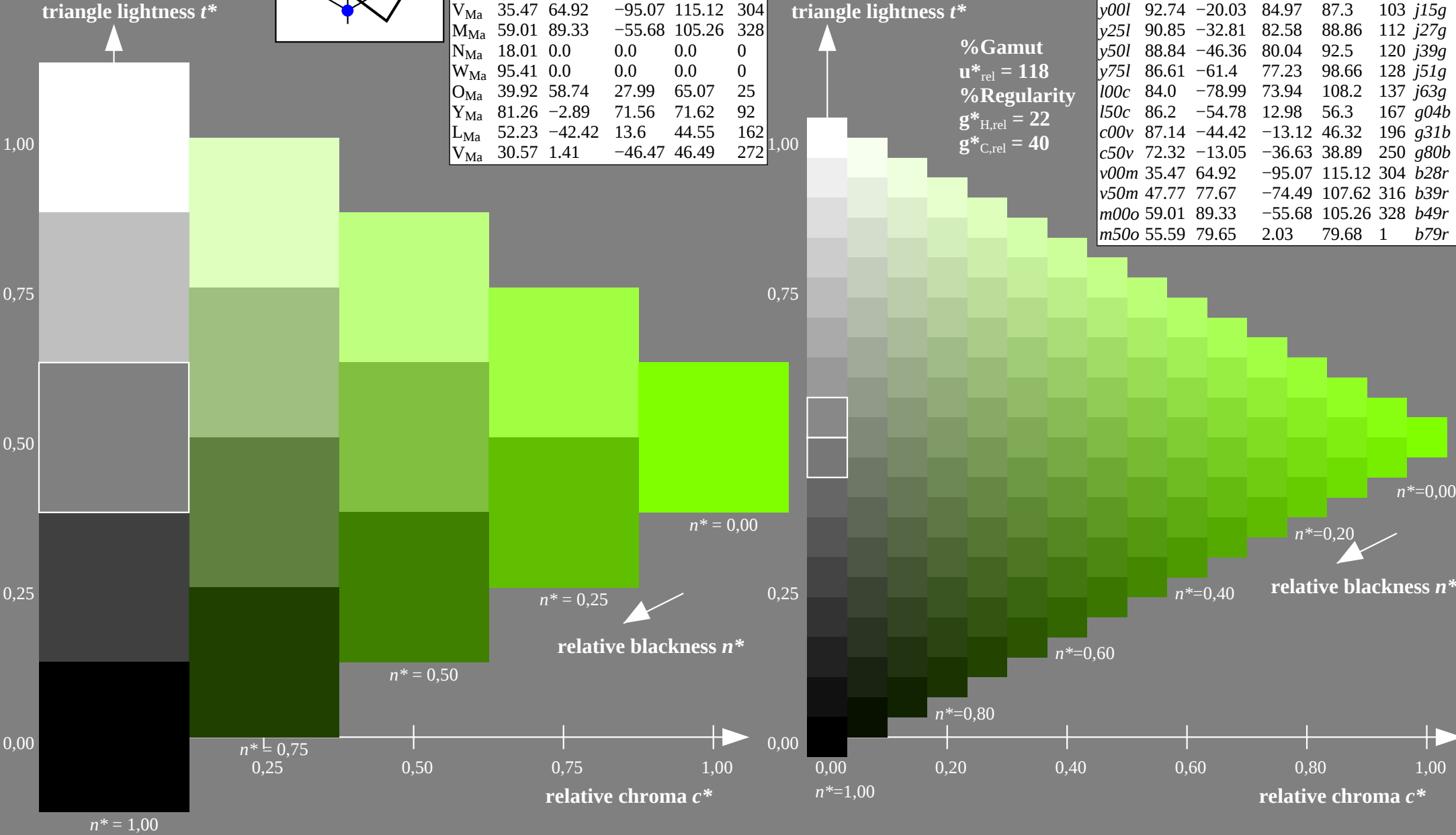


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68	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
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 -46 80
 $LAB^*LCH^*_{Ma}$: 89 93 120
 $lab^*olv^*_{Ma}$: 0.5 1.0 0.0
 $lab^*rgb^*_{Ma}$: 0.6 1.0 0.0

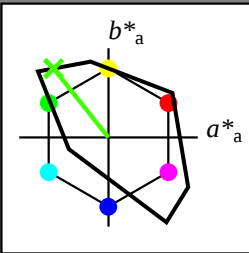
TLS18a; adapted (a) CIELAB data						
d^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*
o00y	52.76	71.63	49.88	87.29	35	r14j
o25y	63.7	46.55	59.48	75.53	52	r39j
o50y	72.75	25.8	67.42	72.19	69	r65j
o75y	81.8	5.06	75.37	75.54	86	r90j
y00l	92.74	-20.03	84.97	87.3	103	j15g
y25l	90.85	-32.81	82.58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



data for any colour:

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

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

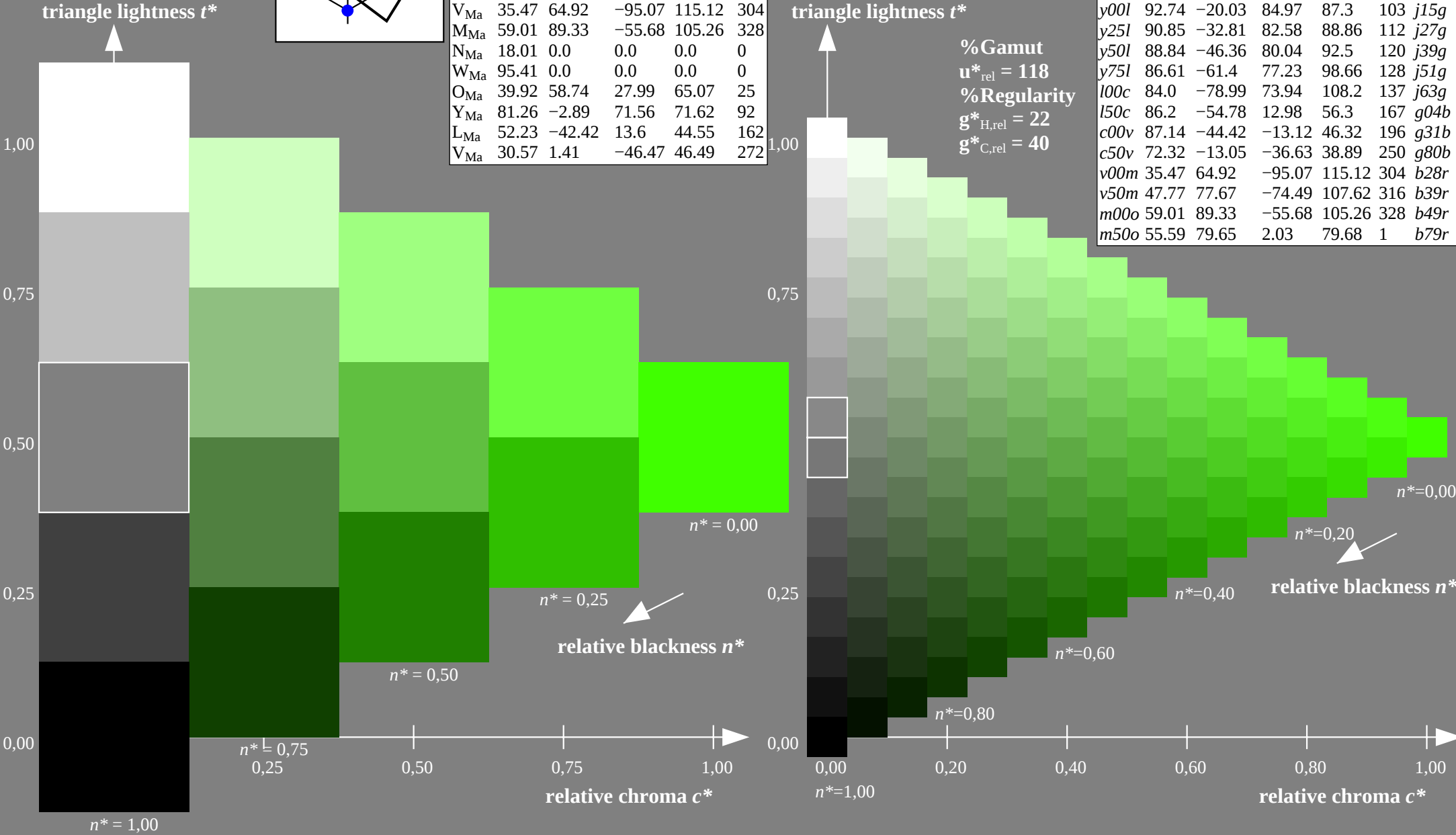


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68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

Data for maximum colour (Ma):

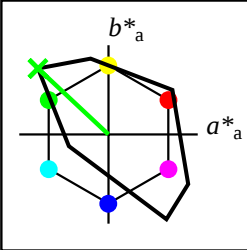
$LAB^*LAB^*_{Ma}$: 87 -61 77
 $LAB^*LCH^*_{Ma}$: 87 99 128
 $lab^*olv^*_{Ma}$: 0.25 1.0 0.0
 $lab^*rgb^*_{Ma}$: 0.48 1.0 0.0

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.38$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = l00c$ $u^* = j63g$

$d^* = l00c$

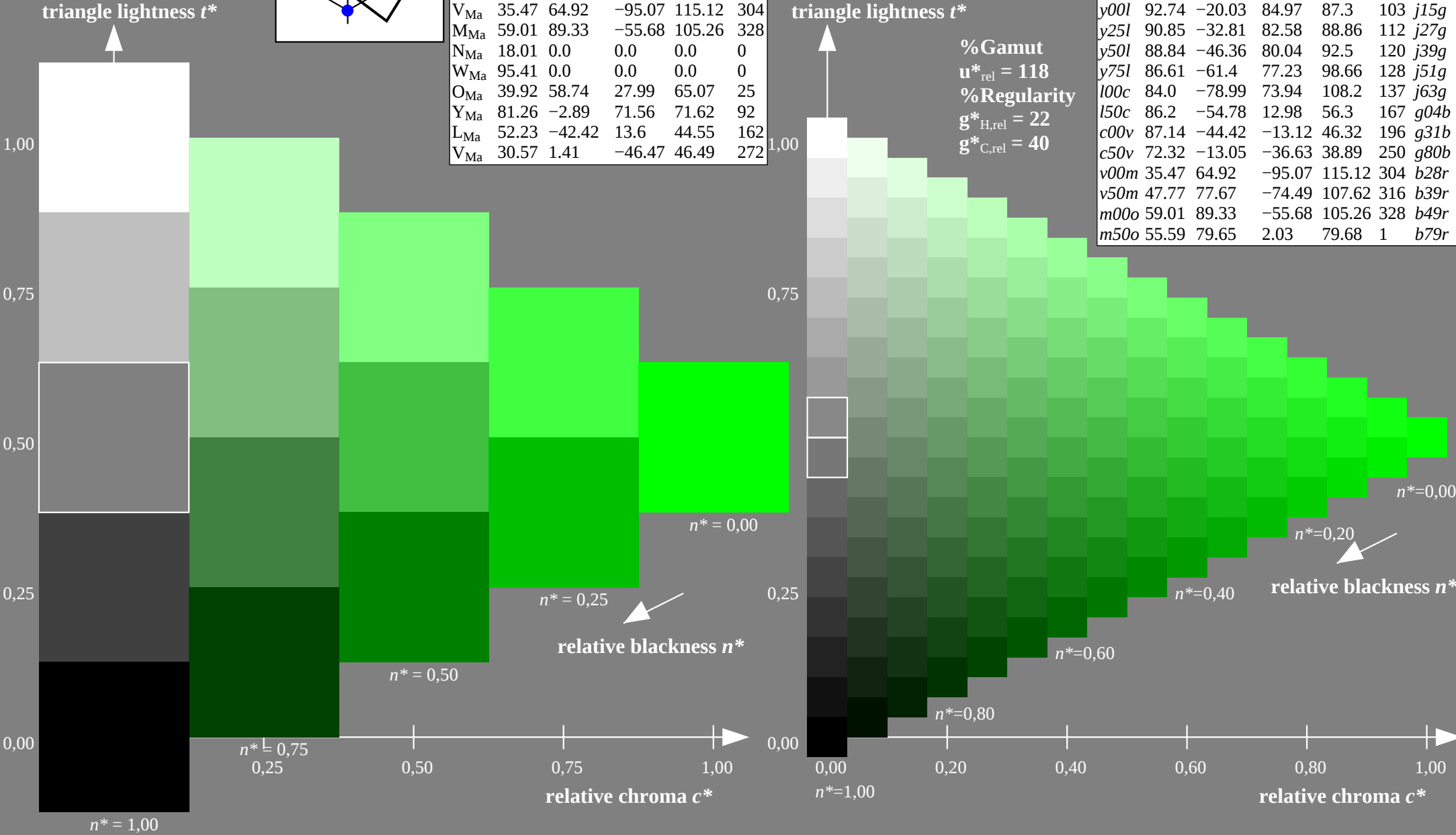


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68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

Data for maximum colour (Ma):

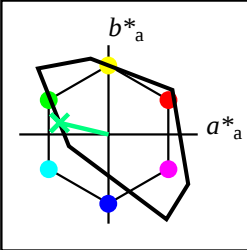
$LAB^*LAB^*_{Ma}$: 84 -79 74
 $LAB^*LCH^*_{Ma}$: 84 108 136
 $lab^*olv^*_{Ma}$: 0.0 1.0 0.0
 $lab^*rgb^*_{Ma}$: 0.36 1.0 0.0

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.463$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = l50c$ $u^* = g04b$

$d^* = l50c$

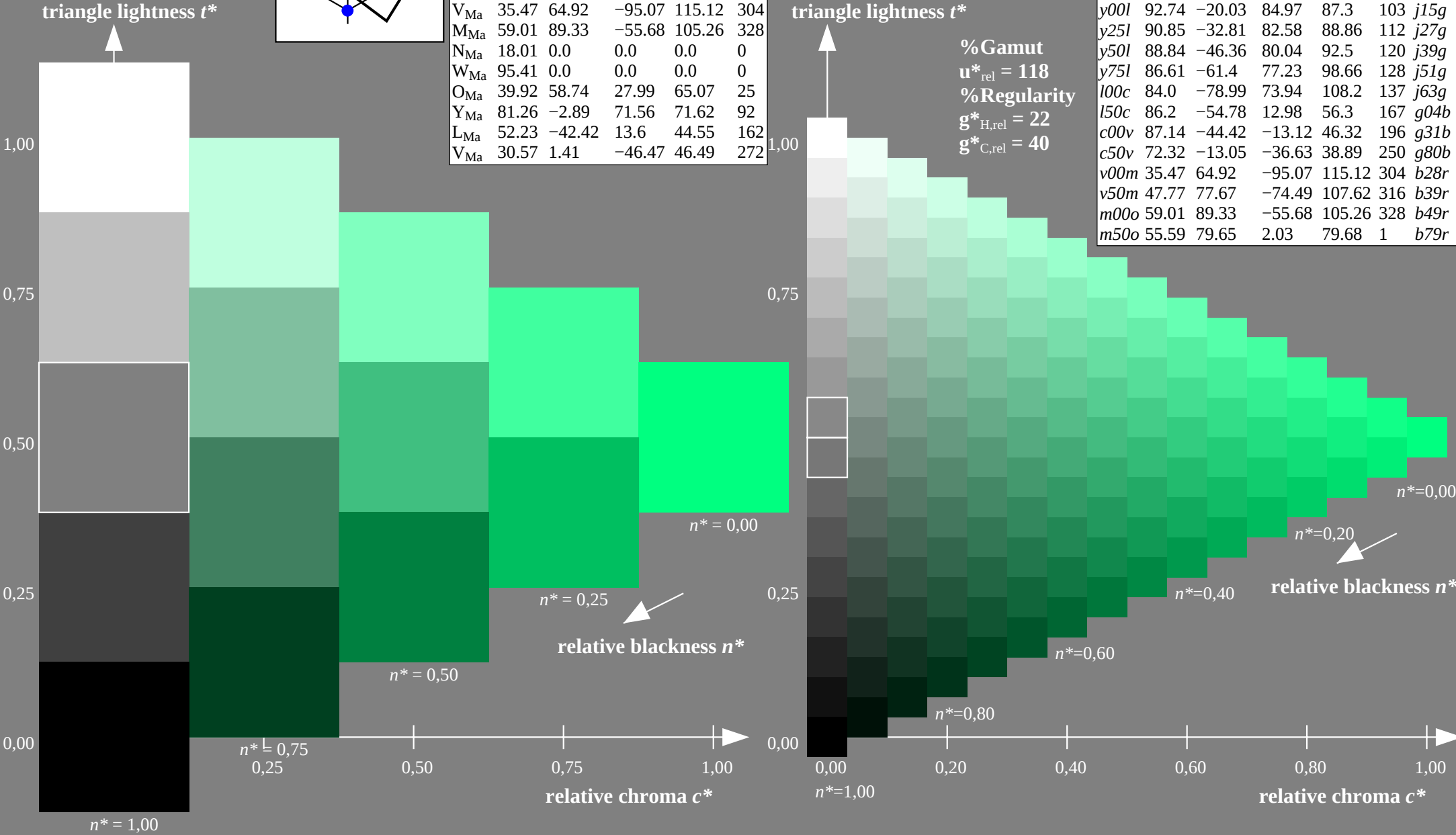


TLS18a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	52.76	71.63	49.88	87.29	35	
Y _{Ma}	92.74	-20.03	84.97	87.3	103	
L _{Ma}	84.0	-78.99	73.94	108.2	137	
C _{Ma}	87.14	-44.42	-13.12	46.32	196	
V _{Ma}	35.47	64.92	-95.07	115.12	304	
M _{Ma}	59.01	89.33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

Data for maximum colour (Ma):

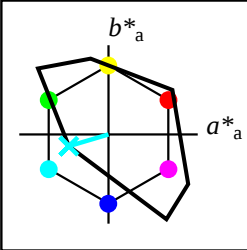
$LAB^*LAB^*_{Ma}$: 86 -55 13
 $LAB^*LCH^*_{Ma}$: 86 56 166
 $lab^*olv^*_{Ma}$: 0.0 1.0 0.5
 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.08

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.546$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = c00v$ $u^* = g31b$

$d^* = c00v$



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
O _{Ma}	39.92	58.74	27.99	65.07	25
Y _{Ma}	81.26	-2.89	71.56	71.62	92
L _{Ma}	52.23	-42.42	13.6	44.55	162
V _{Ma}	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

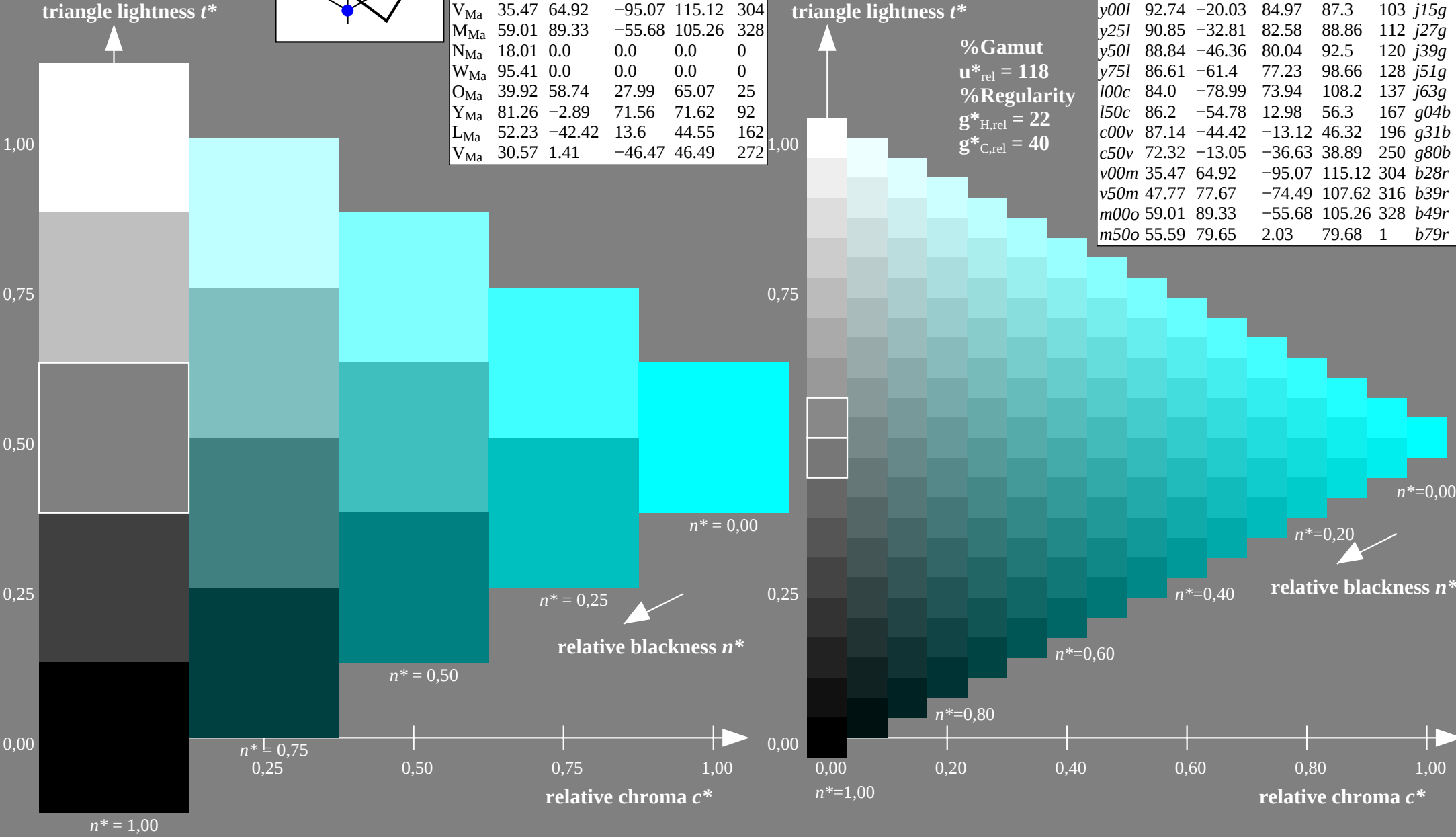
LAB*LAB*Ma: 87 -44 -13

LAB*LCH*Ma: 87 46 196

lab*olv*Ma: 0.0 1.0 1.0

lab*rgb*Ma: 0.0 1.0 0.63

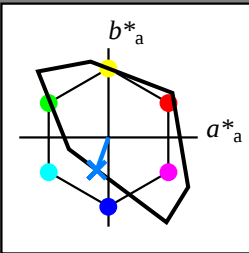
TLS18a; adapted (a) CIELAB data							
d^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*	
o00y	52.76	71.63	49.88	87.29	35	r14j	
o25y	63.7	46.55	59.48	75.53	52	r39j	
o50y	72.75	25.8	67.42	72.19	69	r65j	
o75y	81.8	5.06	75.37	75.54	86	r90j	
y00l	92.74	-20.03	84.97	87.3	103	j15g	
y25l	90.85	-32.81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



data for any colour:

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

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

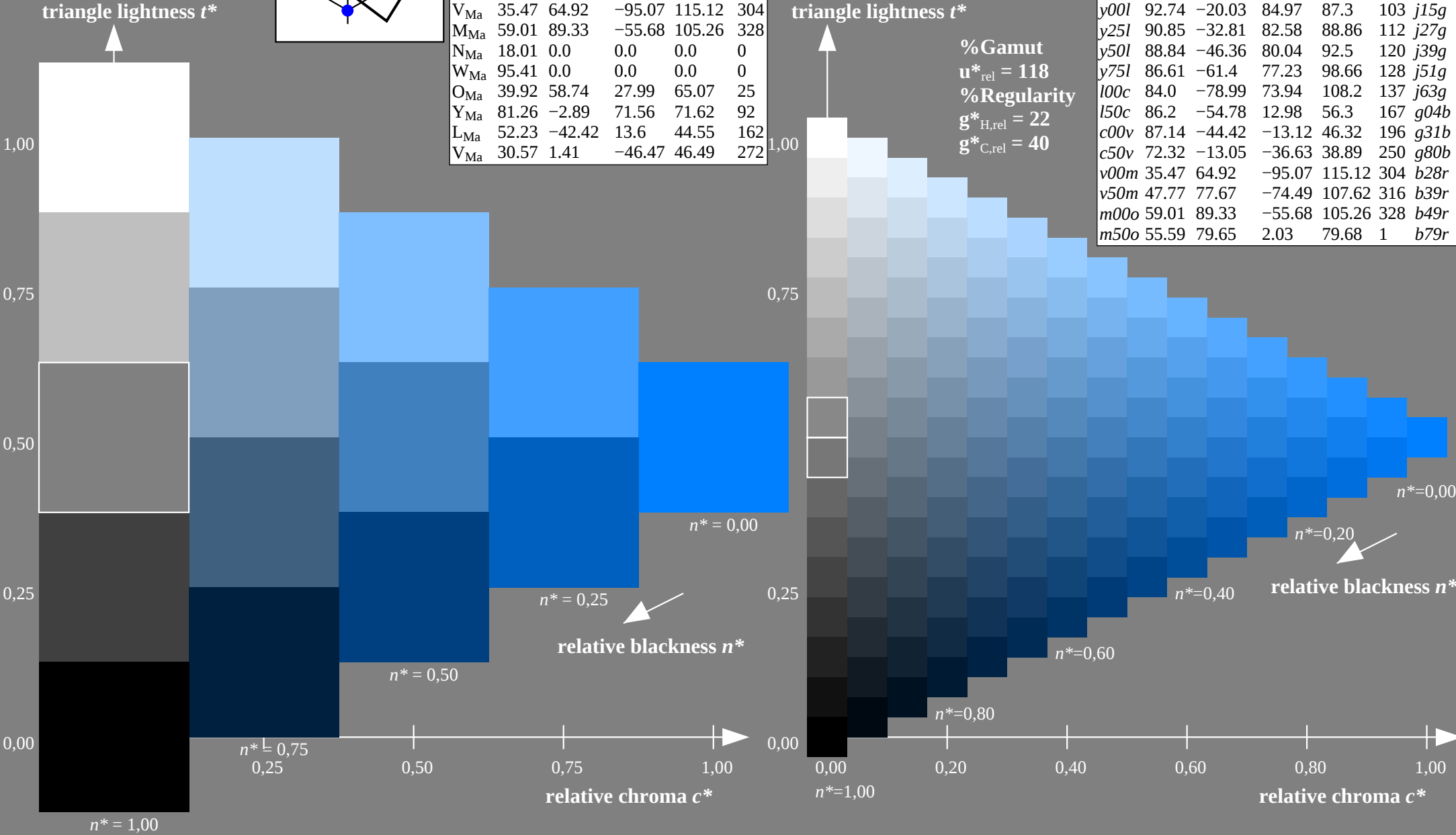


TLS18a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	52.76	71.63	49.88	87.29	35	
Y _{Ma}	92.74	-20.03	84.97	87.3	103	
L _{Ma}	84.0	-78.99	73.94	108.2	137	
C _{Ma}	87.14	-44.42	-13.12	46.32	196	
V _{Ma}	35.47	64.92	-95.07	115.12	304	
M _{Ma}	59.01	89.33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

Data for maximum colour (Ma):

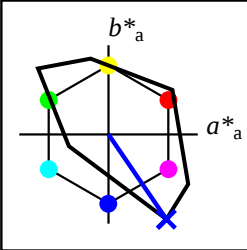
$LAB^*LAB^*_{Ma}$: 72 -13 -37
 $LAB^*LCH^*_{Ma}$: 72 39 250
 $lab^*olv^*_{Ma}$: 0.0 0.5 1.0
 $lab^*rgb^*_{Ma}$: 0.0 0.39 1.0

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.845$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = v00m$ $u^* = b28r$

$d^* = v00m$

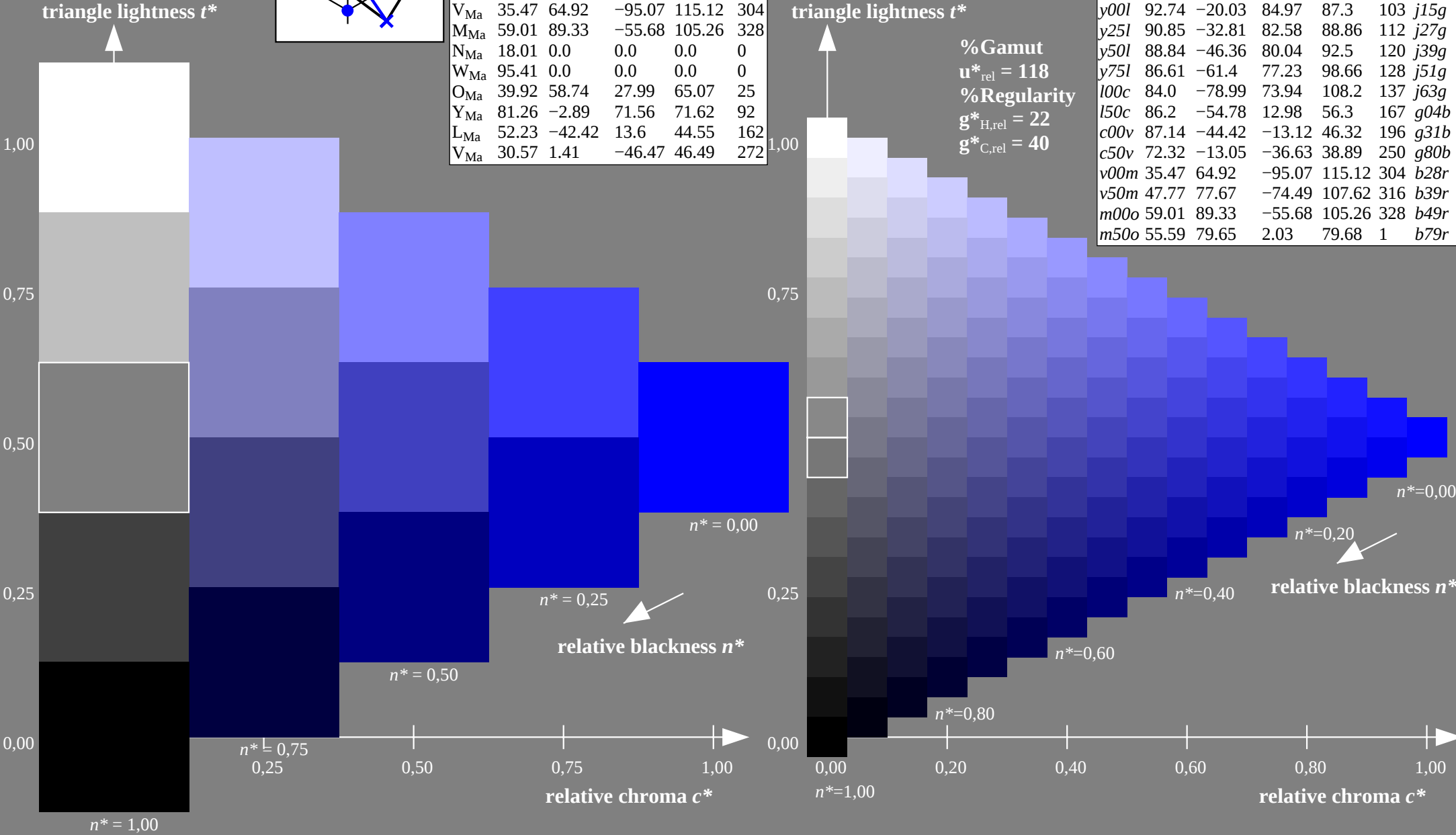


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68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

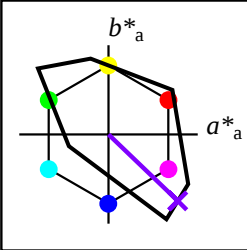
$LAB^*LAB^*_{Ma}$: 35 65 -95
 $LAB^*LCH^*_{Ma}$: 35 115 304
 $lab^*olv^*_{Ma}$: 0.0 0.0 1.0
 $lab^*rgb^*_{Ma}$: 0.57 0.0 1.0

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



Input and output: Colorimetric Television Luminous System TLS18a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.878$
data for any colour:
 lab^*tch^* and lab^*ncu^*
device and elementary
hue text:
 $d^* = v50m$ $u^* = b39r$

$d^* = v50m$

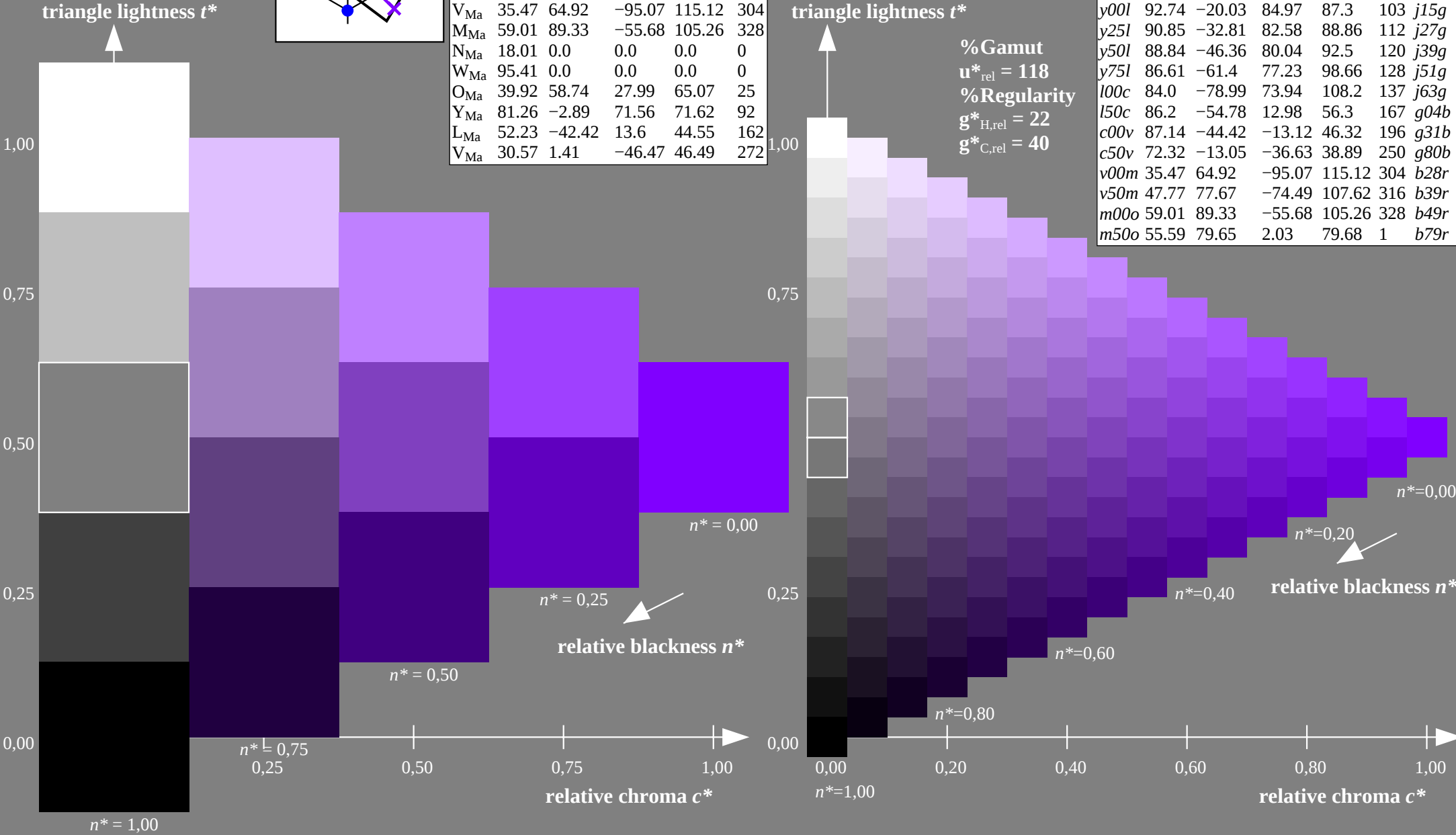


TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68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

Data for maximum colour (Ma):

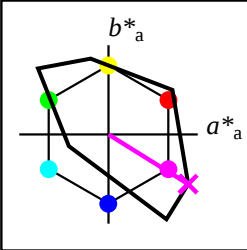
$LAB^*LAB^*_{Ma}$: 48 78 -74
 $LAB^*LCH^*_{Ma}$: 48 108 316
 $lab^*olv^*_{Ma}$: 0.5 0.0 1.0
 $lab^*rgb^*_{Ma}$: 0.78 0.0 1.0

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



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

$d^* = m00o$

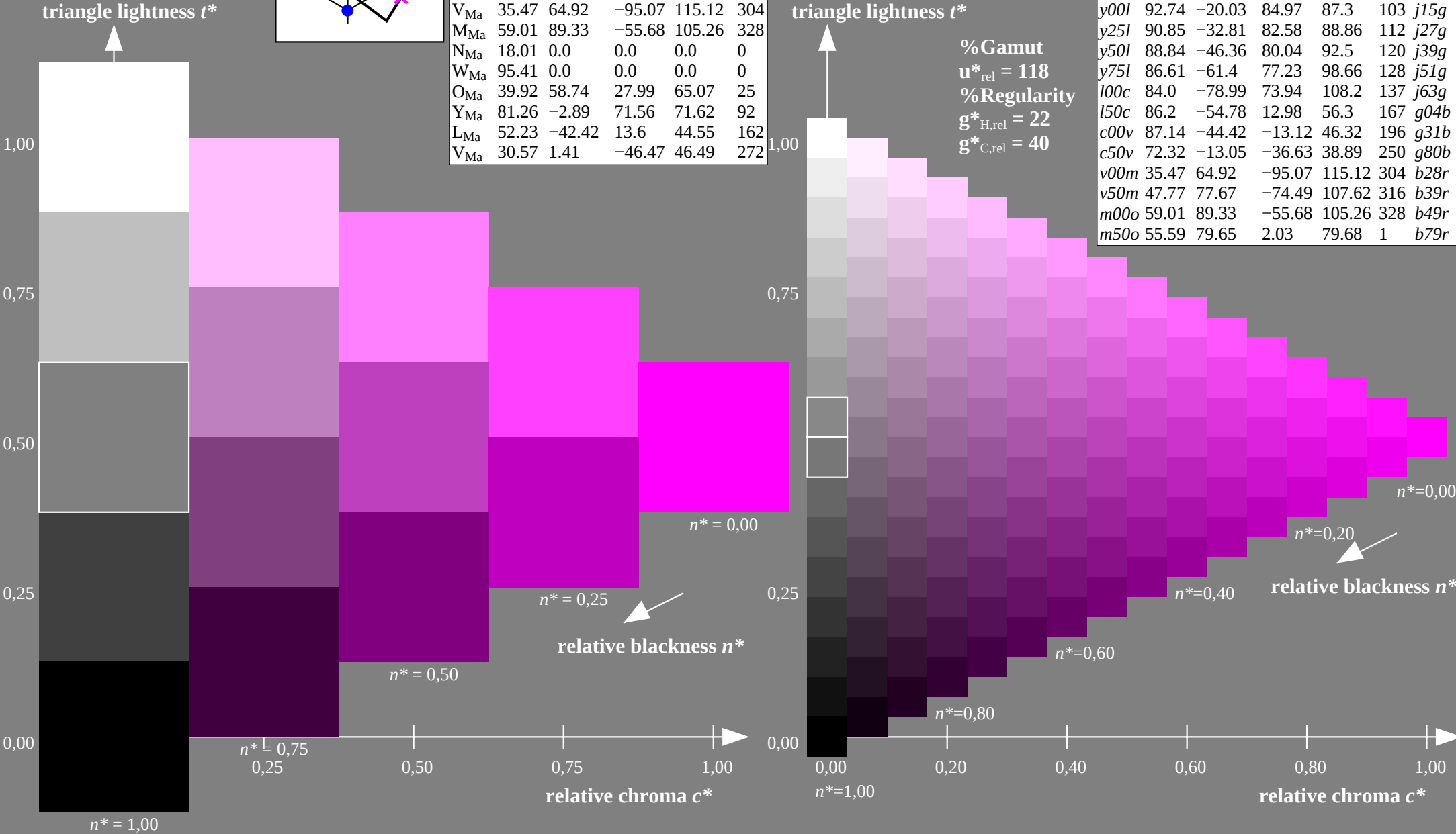


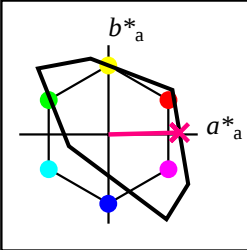
TLS18a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.03	84.97	87.3	103
L _{Ma}	84.0	-78.99	73.94	108.2	137
C _{Ma}	87.14	-44.42	-13.12	46.32	196
V _{Ma}	35.47	64.92	-95.07	115.12	304
M _{Ma}	59.01	89.33	-55.68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

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 59 89 -56
 $LAB^*LCH^*_{Ma}$: 59 105 328
 $lab^*olv^*_{Ma}$: 1.0 0.0 1.0
 $lab^*rgb^*_{Ma}$: 0.99 0.0 1.0

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





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	
O _{Ma}	39.92	58.74	27.99	65.07	25	
Y _{Ma}	81.26	-2.89	71.56	71.62	92	
L _{Ma}	52.23	-42.42	13.6	44.55	162	
V _{Ma}	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 56 80 2
 $LAB^*LCH^*_{Ma}$: 56 80 1
 $lab^*olv^*_{Ma}$: 1.0 0.0 0.5
 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.42

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

