

Input and output: Colorimetric Printer Reflective System FRS12_95a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.101$
data for any colour:

lab^*tch^* and lab^*icu^*

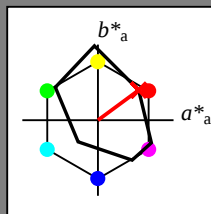
Hue texts:

$u^*_d = o00y$ $u^*_e = r16j$

contrast reduction factor:

$c_R = 0.9$

triangle lightness t^*



FRS12_95a; adapted (a) CIELAB data

u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	43.8	53.91	39.75	66.98	36
Y _{Ma}	87.58	-4.65	98.29	98.4	93
L _{Ma}	51.95	-56.34	43.53	71.2	142
C _{Ma}	59.62	-26.2	-28.62	38.8	228
V _{Ma}	25.01	45.2	-52.8	69.51	311
M _{Ma}	45.88	70.67	-29.93	76.75	337
N _{Ma}	20.0	0.0	0.0	0.0	0
W _{Ma}	95.0	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):

$LAB^*LAB^*_{Ma}$: 44 54 40

$LAB^*LCH^*_{Ma}$: 44 67 36

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

$lab^*rgb^*_{Ma}$: 1.0 0.16 0.0

triangle lightness t^*

%Gamut

$u^*_{rel} = 88$

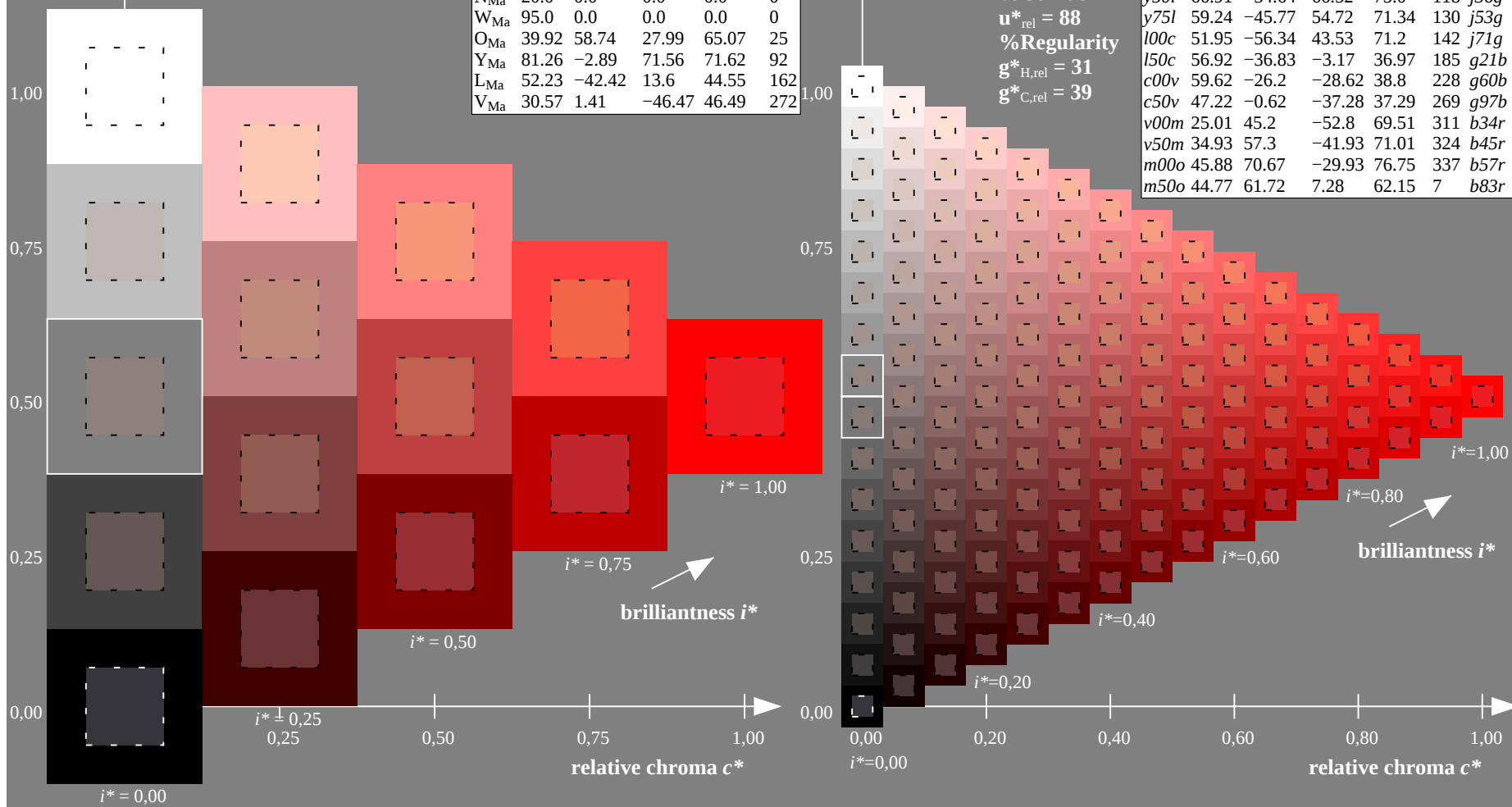
%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

FRS12_95a; adapted (a) CIELAB data

u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
<i>o00y</i>	43.8	53.91	39.75	66.98	36	<i>r16j</i>
<i>o25y</i>	52.46	42.34	51.32	66.53	50	<i>r37j</i>
<i>o50y</i>	61.53	30.2	63.46	70.28	65	<i>r58j</i>
<i>o75y</i>	72.39	15.68	77.97	79.53	79	<i>r79j</i>
<i>y00l</i>	87.58	-4.65	98.29	98.4	93	<i>j01g</i>
<i>y25l</i>	75.85	-21.67	80.26	83.13	105	<i>j18g</i>
<i>y50l</i>	66.91	-34.64	66.52	75.0	118	<i>j36g</i>
<i>y75l</i>	59.24	-45.77	54.72	71.34	130	<i>j53g</i>
<i>l00c</i>	51.95	-56.34	43.53	71.2	142	<i>j71g</i>
<i>l50c</i>	56.92	-36.83	-3.17	36.97	185	<i>g21b</i>
<i>c00v</i>	59.62	-26.2	-28.62	38.8	228	<i>g60b</i>
<i>c50v</i>	47.22	-0.62	-37.28	37.29	269	<i>g97b</i>
<i>v00m</i>	25.01	45.2	-52.8	69.51	311	<i>b34r</i>
<i>v50m</i>	34.93	57.3	-41.93	71.01	324	<i>b45r</i>
<i>m00o</i>	45.88	70.67	-29.93	76.75	337	<i>b57r</i>
<i>m50o</i>	44.77	61.72	7.28	62.15	7	<i>b83r</i>



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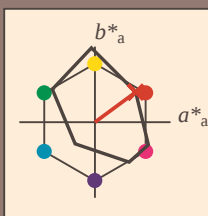
Hue texts:

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contrast reduction factor:

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triangle lightness t^*



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N _{Ma}	20.0	0.0	0.0	0.0	0	
W _{Ma}	95.0	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	
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triangle lightness t^*

%Gamut

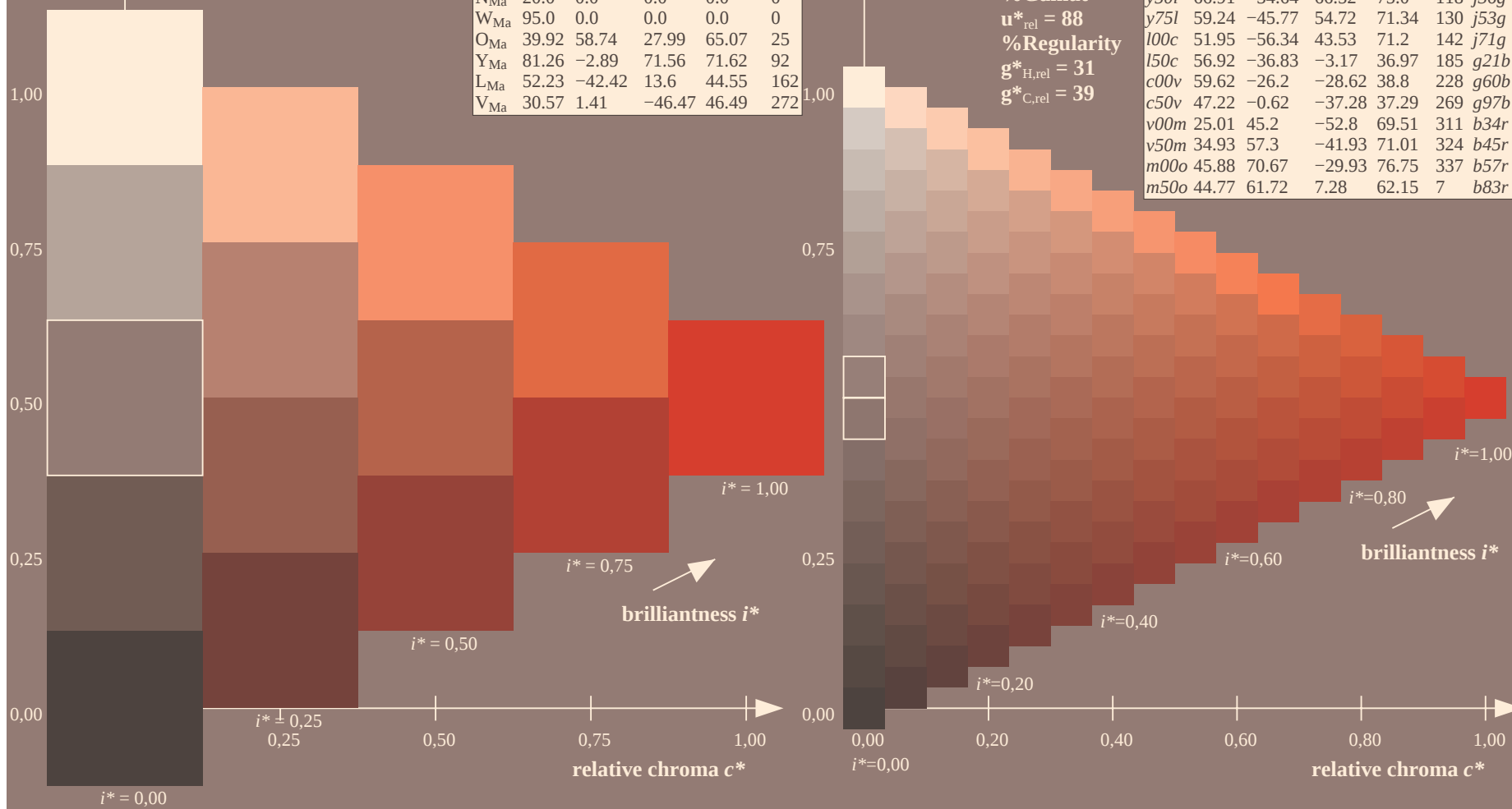
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<i>o50y</i>	61.53	30.2	63.46	70.28	65	<i>r58j</i>
<i>o75y</i>	72.39	15.68	77.97	79.53	79	<i>r79j</i>
<i>y00l</i>	87.58	-4.65	98.29	98.4	93	<i>j01g</i>
<i>y25l</i>	75.85	-21.67	80.26	83.13	105	<i>j18g</i>
<i>y50l</i>	66.91	-34.64	66.52	75.0	118	<i>j36g</i>
<i>y75l</i>	59.24	-45.77	54.72	71.34	130	<i>j53g</i>
<i>l00c</i>	51.95	-56.34	43.53	71.2	142	<i>j71g</i>
<i>l50c</i>	56.92	-36.83	-3.17	36.97	185	<i>g21b</i>
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<i>m00o</i>	45.88	70.67	-29.93	76.75	337	<i>b57r</i>
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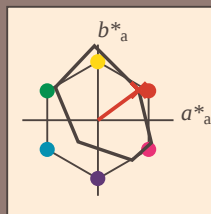
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$lab^*rgb^*_{Ma}$: 1.0 0.16 0.0

triangle lightness t^*

%Gamut

$u^*_{rel} = 88$

%Regularity

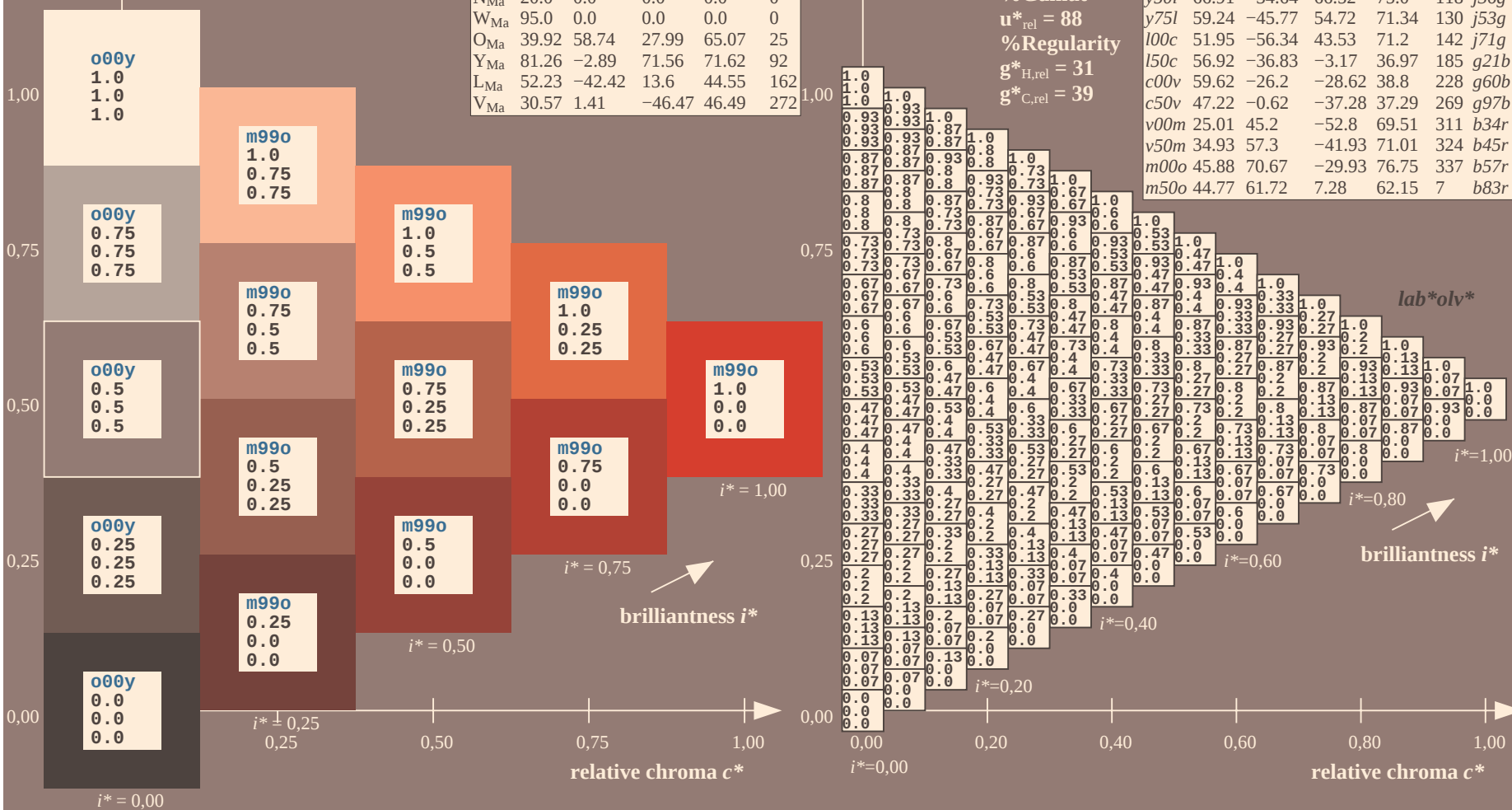
$g^*_{H,rel} = 31$

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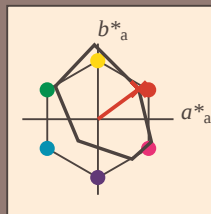
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$u^*_d = o00y$
 lab^*olv^*



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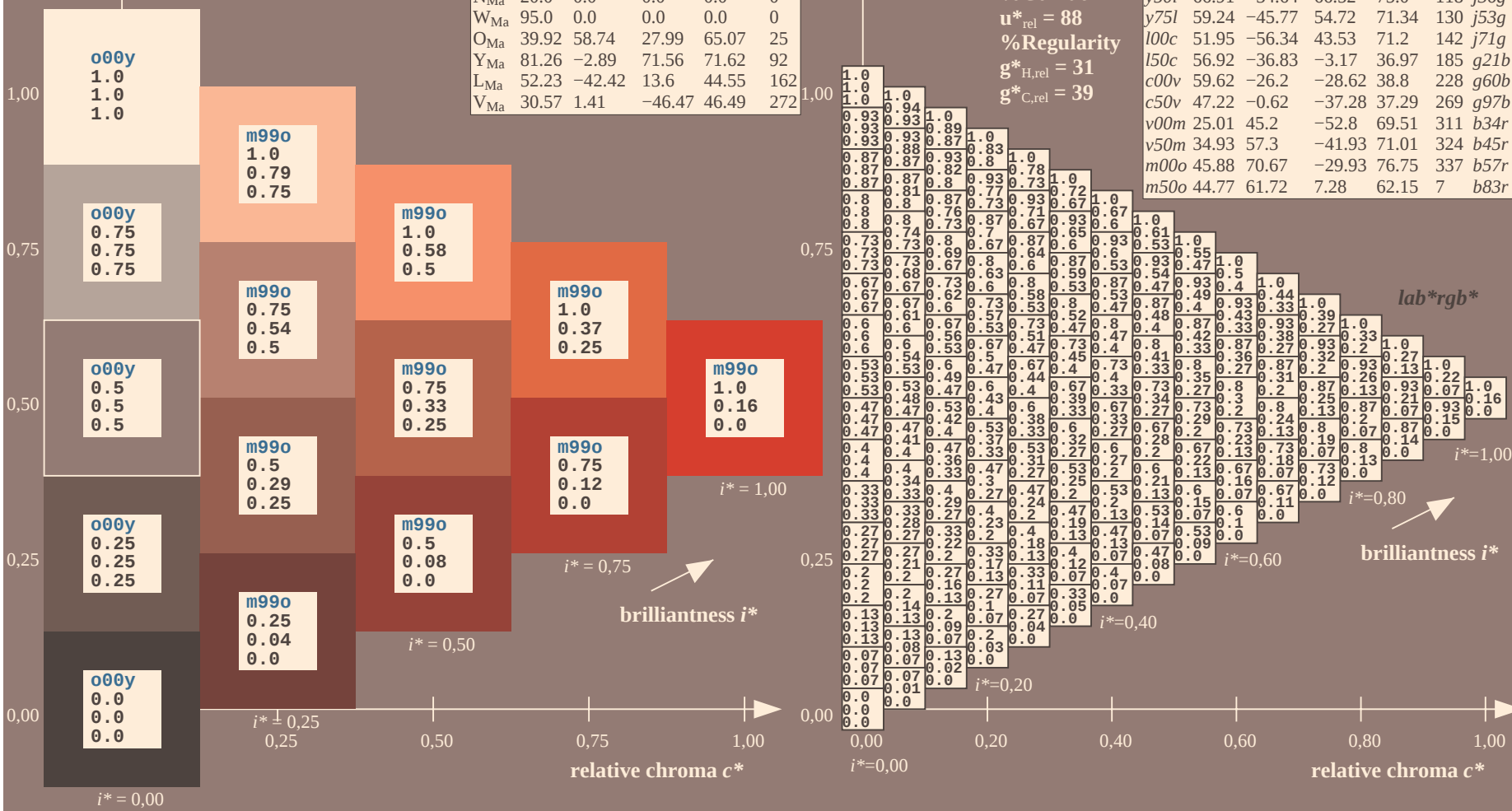
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% Gamut
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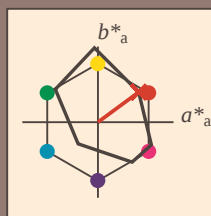
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$o50y$	61.53	30.2	63.46	70.28	65	$r58j$
$o75y$	72.39	15.68	77.97	79.53	79	$r79j$
$y00l$	87.58	-4.65	98.29	98.4	93	$j01g$
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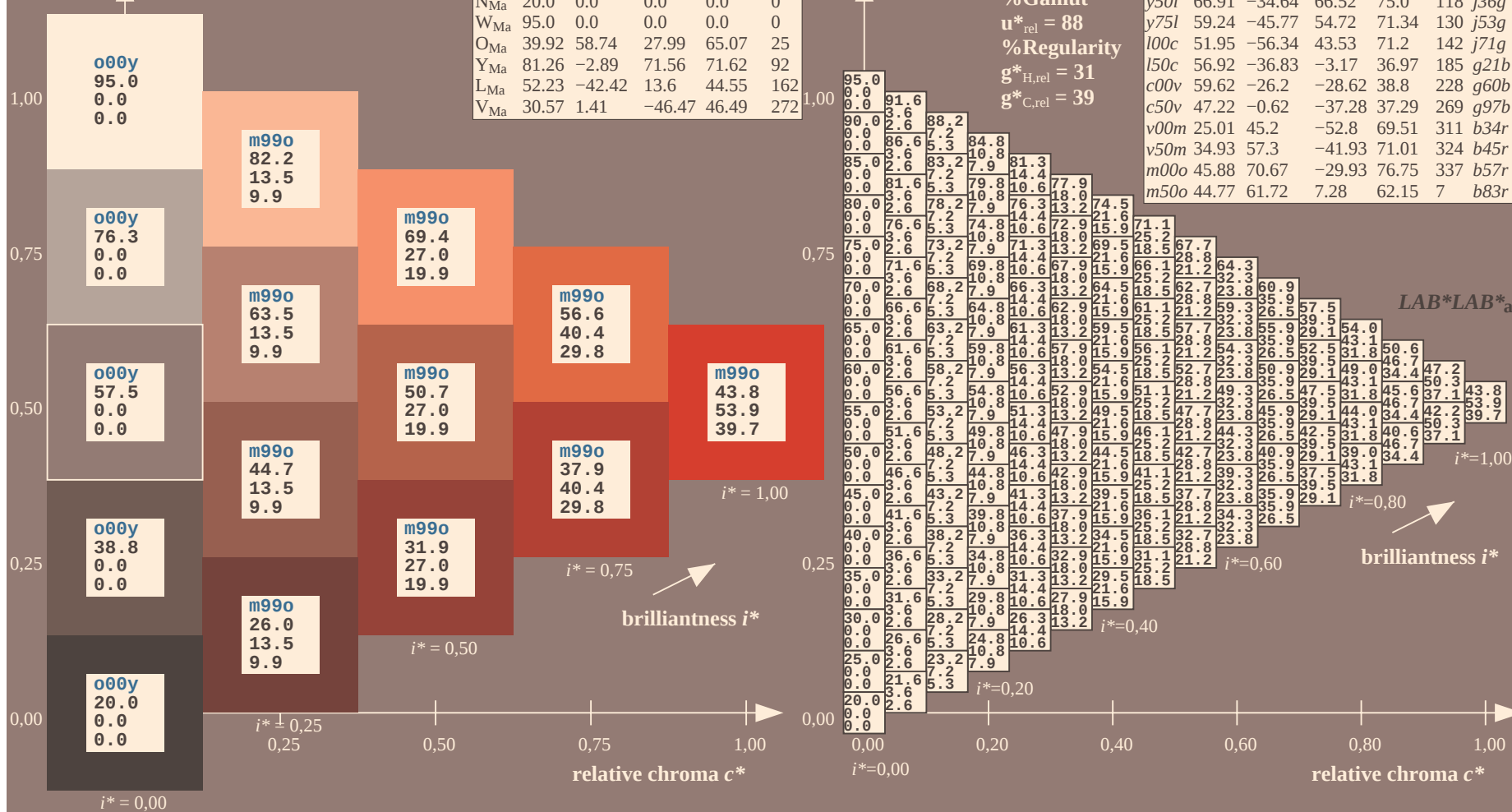
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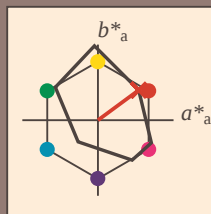
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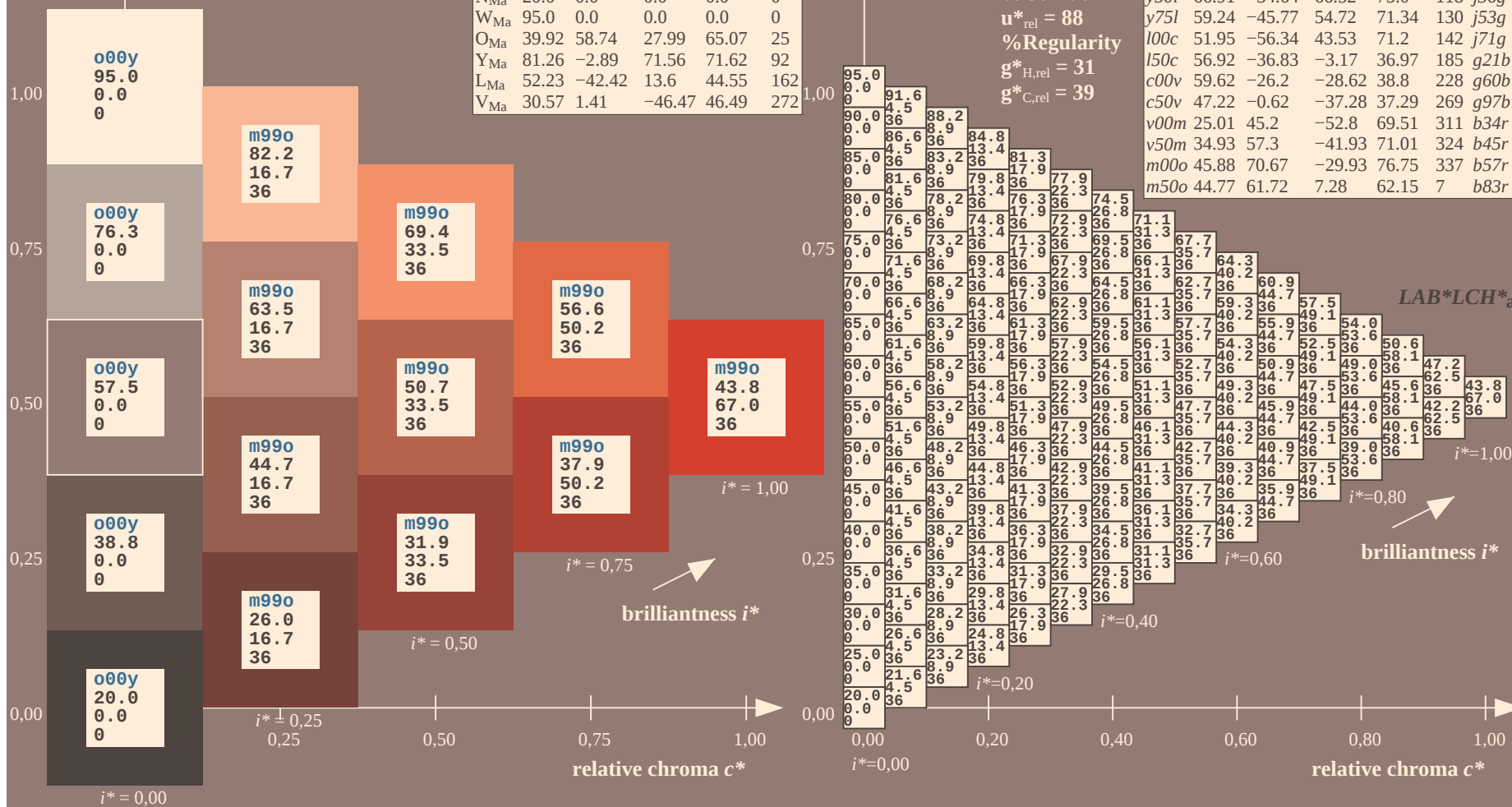
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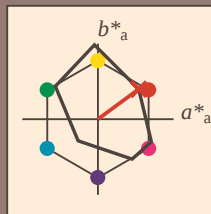
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$o75y$	72.39	15.68	77.97	79.53	79	$r79j$
$y00l$	87.58	-4.65	98.29	98.4	93	$j01g$
$y25l$	75.85	-21.67	80.26	83.13	105	$j18g$
$y50l$	66.91	-34.64	66.52	75.0	118	$j36g$
$y75l$	59.24	-45.77	54.72	71.34	130	$j53g$
$l00c$	51.95	-56.34	43.53	71.2	142	$j71g$
$l50c$	56.92	-36.83	-3.17	36.97	185	$g21b$
$c00v$	59.62	-26.2	-28.62	38.8	228	$g60b$
$c50v$	47.22	-0.62	-37.28	37.29	269	$g97b$
$v00m$	25.01	45.2	-52.8	69.51	311	$b34r$
$v50m$	34.93	57.3	-41.93	71.01	324	$b45r$
$m00o$	45.88	70.67	-29.93	76.75	337	$b57r$
$m50o$	44.77	61.72	7.28	62.15	7	$b83r$



Input and output: Colorimetric Printer Reflective System FRS12_95a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.101$
data for any colour:
 lab^*tch^* and lab^*icu^*

Hue texts:
 $u^*_d = o00y$ $u^*_e = r16j$
contrast reduction factor:
 $c_R = 0.9$
triangle lightness t^*



FRS12_95a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	43.8	53.91	39.75	66.98	36	
Y _{Ma}	87.58	-4.65	98.29	98.4	93	
L _{Ma}	51.95	-56.34	43.53	71.2	142	
C _{Ma}	59.62	-26.2	-28.62	38.8	228	
V _{Ma}	25.01	45.2	-52.8	69.51	311	
M _{Ma}	45.88	70.67	-29.93	76.75	337	
N _{Ma}	20.0	0.0	0.0	0.0	0	
W _{Ma}	95.0	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):

$LAB^*LAB^*_{Ma}$: 44 54 40

$LAB^*LCH^*_{Ma}$: 44 67 36

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

$lab^*rgb^*_{Ma}$: 1.0 0.16 0.0

triangle lightness t^*

%Gamut

$u^*_{rel} = 88$

%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

FRS12_95a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
$o00y$	43.8	53.91	39.75	66.98	36	$r16j$
$o25y$	52.46	42.34	51.32	66.53	50	$r37j$
$o50y$	61.53	30.2	63.46	70.28	65	$r58j$
$o75y$	72.39	15.68	77.97	79.53	79	$r79j$
$y00l$	87.58	-4.65	98.29	98.4	93	$j01g$
$y25l$	75.85	-21.67	80.26	83.13	105	$j18g$
$y50l$	66.91	-34.64	66.52	75.0	118	$j36g$
$y75l$	59.24	-45.77	54.72	71.34	130	$j53g$
$l00c$	51.95	-56.34	43.53	71.2	142	$j71g$
$l50c$	56.92	-36.83	-3.17	36.97	185	$g21b$
$c00v$	59.62	-26.2	-28.62	38.8	228	$g60b$
$c50v$	47.22	-0.62	-37.28	37.29	269	$g97b$
$v00m$	25.01	45.2	-52.8	69.51	311	$b34r$
$v50m$	34.93	57.3	-41.93	71.01	324	$b45r$
$m00o$	45.88	70.67	-29.93	76.75	337	$b57r$
$m50o$	44.77	61.72	7.28	62.15	7	$b83r$

lab^*tch^*

$i^* = 1.00$

$i^* = 0.80$

brilliantness i^*

$i^* = 0.60$

$i^* = 0.40$

$i^* = 0.20$

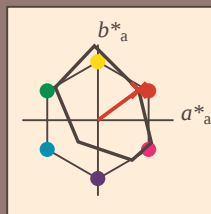
$i^* = 0.00$

relative chroma c^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.101$
data for any colour:
 lab^*tch^* and lab^*icu^*

Hue texts:
 $u^*_d = o00y$ $u^*_e = r16j$
contrast reduction factor:
 $c_R = 0.9$
triangle lightness t^*



FRS12_95a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	43.8	53.91	39.75	66.98	36	
Y _{Ma}	87.58	-4.65	98.29	98.4	93	
L _{Ma}	51.95	-56.34	43.53	71.2	142	
C _{Ma}	59.62	-26.2	-28.62	38.8	228	
V _{Ma}	25.01	45.2	-52.8	69.51	311	
M _{Ma}	45.88	70.67	-29.93	76.75	337	
N _{Ma}	20.0	0.0	0.0	0.0	0	
W _{Ma}	95.0	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 : 44 54 40

LAB^*LCH^*Ma : 44 67 36

lab^*olv^*Ma : 1.0 0.0 0.0

lab^*rgb^*Ma : 1.0 0.16 0.0

triangle lightness t^*

%Gamut

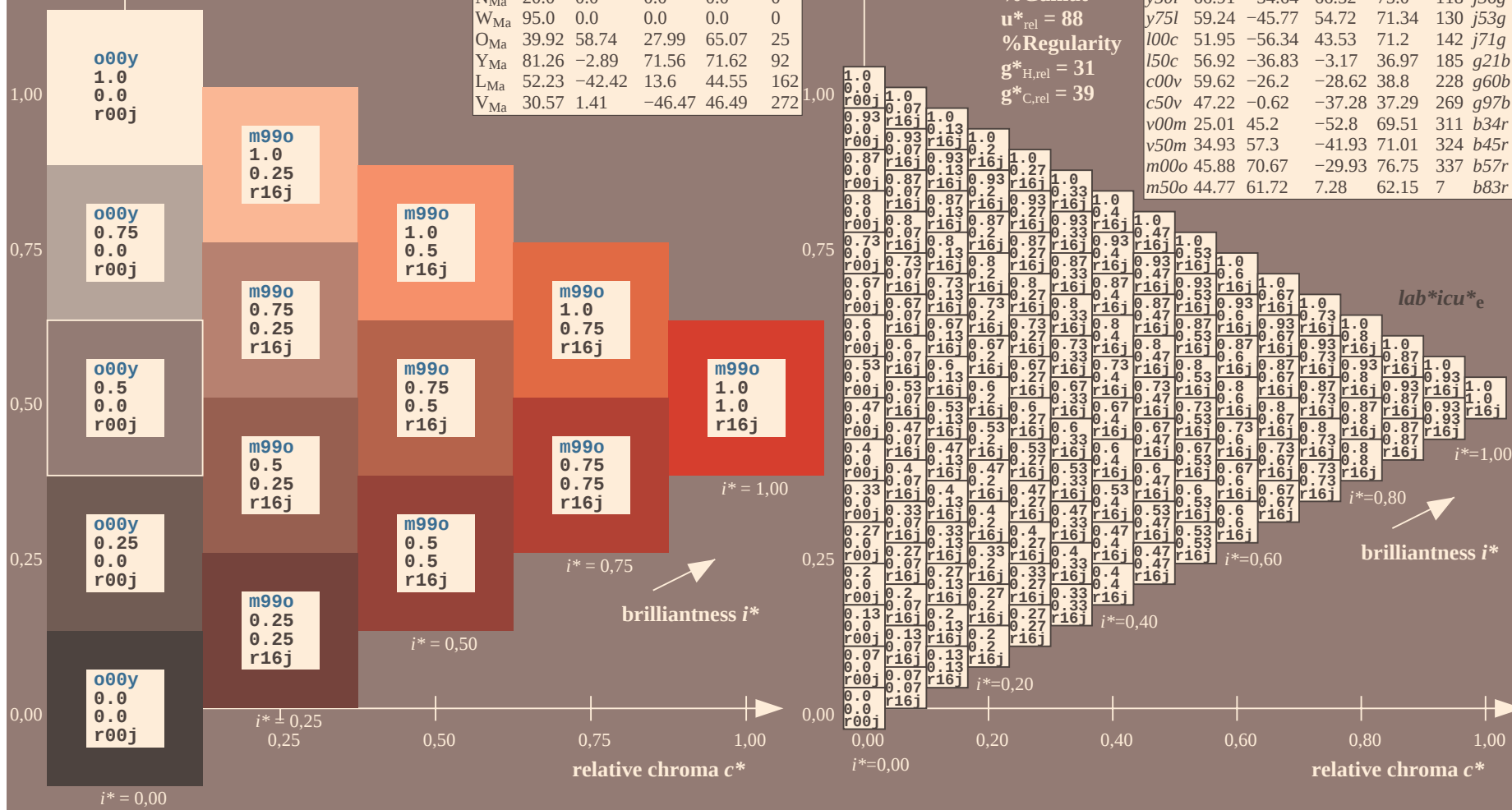
$u^*_{rel} = 88$

%Regularity

$g^*_{H,rel} = 31$

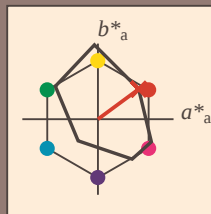
$g^*_{C,rel} = 39$

FRS12_95a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
$o00y$	43.8	53.91	39.75	66.98	36	$r16j$
$o25y$	52.46	42.34	51.32	66.53	50	$r37j$
$o50y$	61.53	30.2	63.46	70.28	65	$r58j$
$o75y$	72.39	15.68	77.97	79.53	79	$r79j$
$y00l$	87.58	-4.65	98.29	98.4	93	$j01g$
$y25l$	75.85	-21.67	80.26	83.13	105	$j18g$
$y50l$	66.91	-34.64	66.52	75.0	118	$j36g$
$y75l$	59.24	-45.77	54.72	71.34	130	$j53g$
$l00c$	51.95	-56.34	43.53	71.2	142	$j71g$
$l50c$	56.92	-36.83	-3.17	36.97	185	$g21b$
$c00v$	59.62	-26.2	-28.62	38.8	228	$g60b$
$c50v$	47.22	-0.62	-37.28	37.29	269	$g97b$
$v00m$	25.01	45.2	-52.8	69.51	311	$b34r$
$v50m$	34.93	57.3	-41.93	71.01	324	$b45r$
$m00o$	45.88	70.67	-29.93	76.75	337	$b57r$
$m50o$	44.77	61.72	7.28	62.15	7	$b83r$



Input and output: Colorimetric Printer Reflective System FRS12_95a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.101$
data for any colour:
 lab^*tch^* and lab^*icu^*

Hue texts:
 $u^*_d = o00y$ $u^*_e = r16j$
contrast reduction factor:
 $c_R = 0.9$
triangle lightness t^*



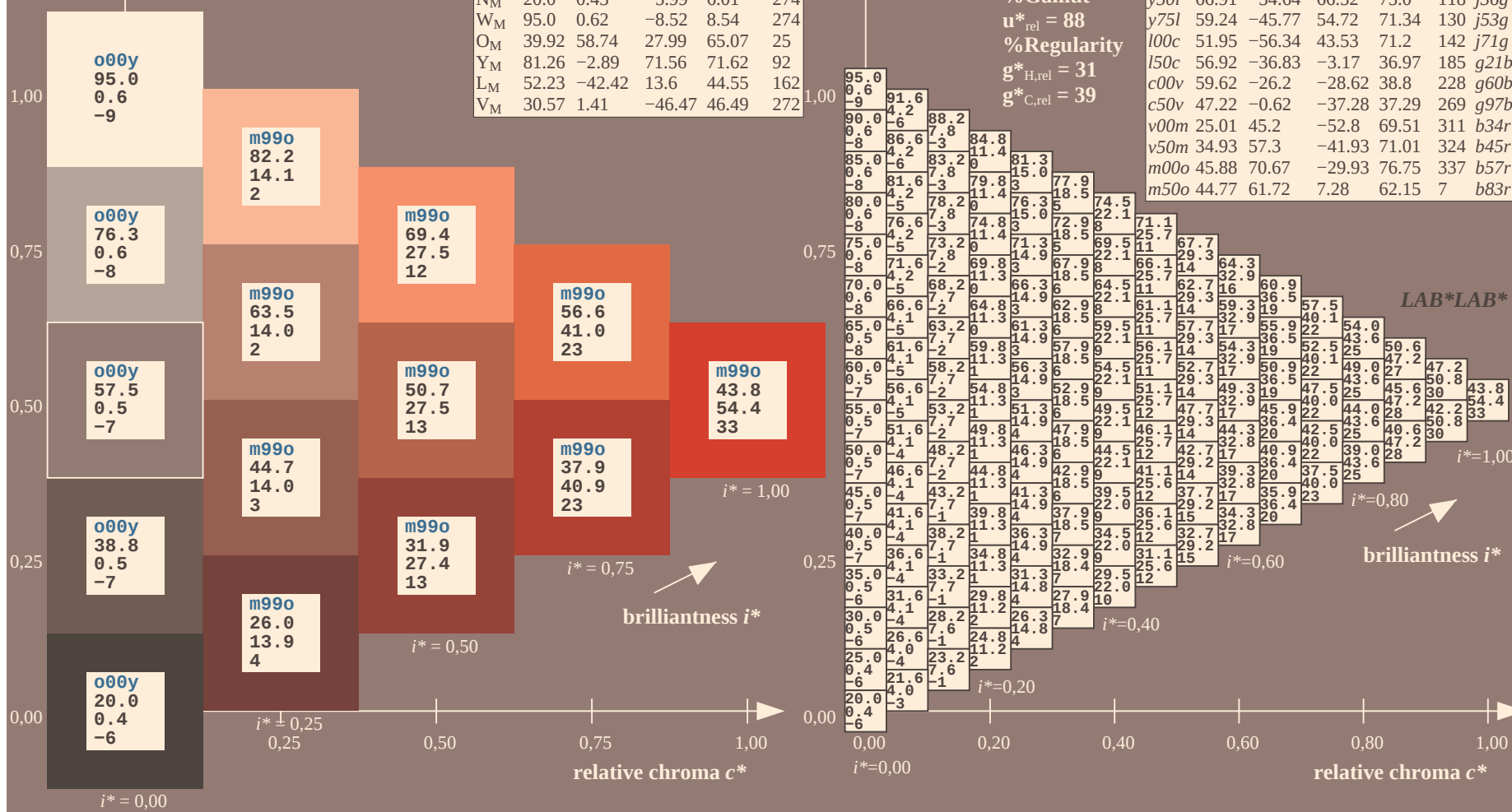
FRS12_95; CIELAB data						
u^*_d	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}	
O _M	43.8	54.41	32.95	63.61	31	
Y _M	87.58	-4.04	90.02	90.11	93	
L _M	51.95	-55.83	36.46	66.68	147	
C _M	59.62	-25.67	-35.94	44.17	234	
V _M	25.01	45.64	-58.96	74.57	308	
M _M	45.88	71.17	-36.79	80.12	333	
N _M	20.0	0.43	-5.99	6.01	274	
W _M	95.0	0.62	-8.52	8.54	274	
O _M	39.92	58.74	27.99	65.07	25	
Y _M	81.26	-2.89	71.56	71.62	92	
L _M	52.23	-42.42	13.6	44.55	162	
V _M	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*Ma: 44\ 54\ 40$
 $LAB^*LCH^*Ma: 44\ 67\ 36$
 $lab^*olv^*Ma: 1.0\ 0.0\ 0.0$
 $lab^*rgb^*Ma: 1.0\ 0.16\ 0.0$
triangle lightness t^*

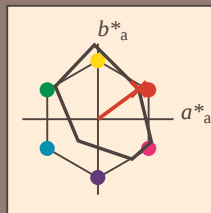
%Gamut
 $u^*_{rel} = 88$
%Regularity
 $g^*_{H,rel} = 31$
 $g^*_{C,rel} = 39$

FRS12_95a; adapted (a) CIELAB data							
u^*_d	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e	
o00y	43.8	53.91	39.75	66.98	36	r16j	
o25y	52.46	42.34	51.32	66.53	50	r37j	
o50y	61.53	30.2	63.46	70.28	65	r58j	
o75y	72.39	15.68	77.97	79.53	79	r79j	
y00l	87.58	-4.65	98.29	98.4	93	j01g	
y25l	75.85	-21.67	80.26	83.13	105	j18g	
y50l	66.91	-34.64	66.52	75.0	118	j36g	
y75l	59.24	-45.77	54.72	71.34	130	j53g	
l00c	51.95	-56.34	43.53	71.2	142	j71g	
l50c	56.92	-36.83	-3.17	36.97	185	g21b	
c00v	59.62	-26.2	-28.62	38.8	228	g60b	
c50v	47.22	-0.62	-37.28	37.29	269	g97b	
v00m	25.01	45.2	-52.8	69.51	311	b34r	
v50m	34.93	57.3	-41.93	71.01	324	b45r	
m00o	45.88	70.67	-29.93	76.75	337	b57r	
m50o	44.77	61.72	7.28	62.15	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS12_95a for relative CIELAB hue $h^* = lab \cdot h^* = h_{ab}/360 = 0.101$
data for any colour:
 $lab \cdot tch^*$ and $lab \cdot icu^*$

Hue texts:
 $u^*_d = o00y$ $u^*_e = r16j$
contrast reduction factor:
 $c_R = 0.9$
triangle lightness t^*



FRS12_95a; CIELAB data						
u^*_d	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}	
O _M	43.8	54.41	32.95	63.61	31	
Y _M	87.58	-4.04	90.02	90.11	93	
L _M	51.95	-55.83	36.46	66.68	147	
C _M	59.62	-25.67	-35.94	44.17	234	
V _M	25.01	45.64	-58.96	74.57	308	
M _M	45.88	71.17	-36.79	80.12	333	
N _M	20.0	0.43	-5.99	6.01	274	
W _M	95.0	0.62	-8.52	8.54	274	
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Y _M	81.26	-2.89	71.56	71.62	92	
L _M	52.23	-42.42	13.6	44.55	162	
V _M	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB \cdot LAB^*_{Ma}$: 44 54 40

$LAB \cdot LCH^*_{Ma}$: 44 67 36

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

$lab \cdot rgb^*_{Ma}$: 1.0 0.16 0.0

triangle lightness t^*

%Gamut

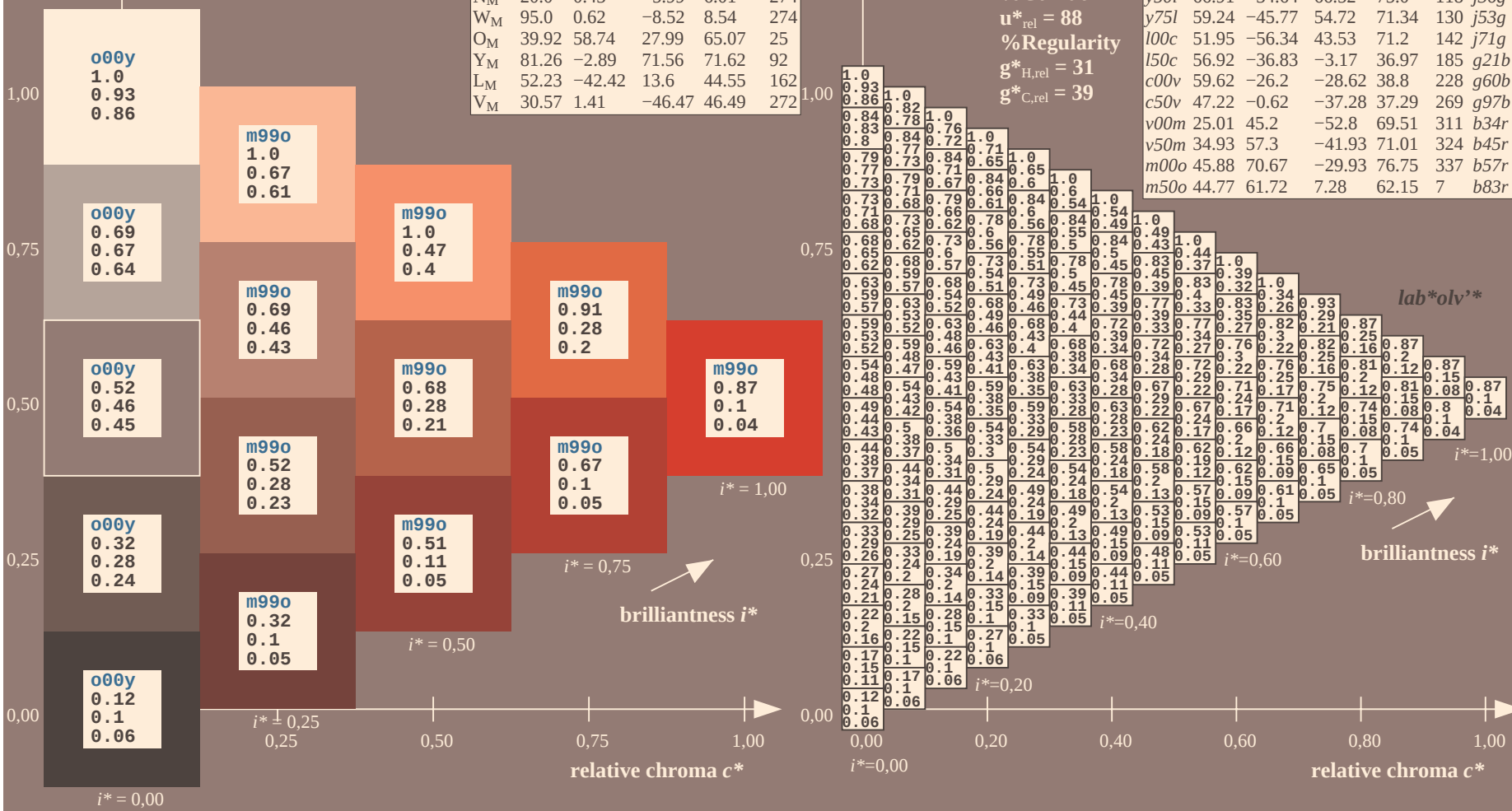
$u^*_{rel} = 88$

%Regularity

$g^*_{H,rel} = 31$

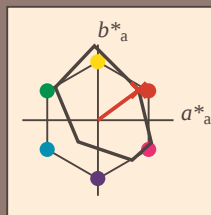
$g^*_{C,rel} = 39$

FRS12_95a; adapted (a) CIELAB data							
u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e	
o00y	43.8	53.91	39.75	66.98	36	r16j	
o25y	52.46	42.34	51.32	66.53	50	r37j	
o50y	61.53	30.2	63.46	70.28	65	r58j	
o75y	72.39	15.68	77.97	79.53	79	r79j	
y00l	87.58	-4.65	98.29	98.4	93	j01g	
y25l	75.85	-21.67	80.26	83.13	105	j18g	
y50l	66.91	-34.64	66.52	75.0	118	j36g	
y75l	59.24	-45.77	54.72	71.34	130	j53g	
l00c	51.95	-56.34	43.53	71.2	142	j71g	
l50c	56.92	-36.83	-3.17	36.97	185	g21b	
c00v	59.62	-26.2	-28.62	38.8	228	g60b	
c50v	47.22	-0.62	-37.28	37.29	269	g97b	
v00m	25.01	45.2	-52.8	69.51	311	b34r	
v50m	34.93	57.3	-41.93	71.01	324	b45r	
m00o	45.88	70.67	-29.93	76.75	337	b57r	
m50o	44.77	61.72	7.28	62.15	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS12_95a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.101$
data for any colour:
 lab^*tch^* and lab^*icu^*

Hue texts:
 $u^*_d = o00y$ $u^*_e = r16j$
contrast reduction factor:
 $c_R = 0.9$
triangle lightness t^*



FRS12_95a; CIELAB data						
u^*_d	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}	
O_M	43.8	54.41	32.95	63.61	31	
Y_M	87.58	-4.04	90.02	90.11	93	
L_M	51.95	-55.83	36.46	66.68	147	
C_M	59.62	-25.67	-35.94	44.17	234	
V_M	25.01	45.64	-58.96	74.57	308	
M_M	45.88	71.17	-36.79	80.12	333	
N_M	20.0	0.43	-5.99	6.01	274	
W_M	95.0	0.62	-8.52	8.54	274	
O_M	39.92	58.74	27.99	65.07	25	
Y_M	81.26	-2.89	71.56	71.62	92	
L_M	52.23	-42.42	13.6	44.55	162	
V_M	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*Ma: 44\ 54\ 40$

$LAB^*LCH^*Ma: 44\ 67\ 36$

$lab^*olv^*Ma: 1.0\ 0.0\ 0.0$

$lab^*rgb^*Ma: 1.0\ 0.16\ 0.0$

triangle lightness t^*

%Gamut

$u^*_{rel} = 88$

%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

FRS12_95a; adapted (a) CIELAB data							
u^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e	
$o00y$	43.8	53.91	39.75	66.98	36	$r16j$	
$o25y$	52.46	42.34	51.32	66.53	50	$r37j$	
$o50y$	61.53	30.2	63.46	70.28	65	$r58j$	
$o75y$	72.39	15.68	77.97	79.53	79	$r79j$	
$y00l$	87.58	-4.65	98.29	98.4	93	$j01g$	
$y25l$	75.85	-21.67	80.26	83.13	105	$j18g$	
$y50l$	66.91	-34.64	66.52	75.0	118	$j36g$	
$y75l$	59.24	-45.77	54.72	71.34	130	$j53g$	
$l00c$	51.95	-56.34	43.53	71.2	142	$j71g$	
$l50c$	56.92	-36.83	-3.17	36.97	185	$g21b$	
$c00v$	59.62	-26.2	-28.62	38.8	228	$g60b$	
$c50v$	47.22	-0.62	-37.28	37.29	269	$g97b$	
$v00m$	25.01	45.2	-52.8	69.51	311	$b34r$	
$v50m$	34.93	57.3	-41.93	71.01	324	$b45r$	
$m00o$	45.88	70.67	-29.93	76.75	337	$b57r$	
$m50o$	44.77	61.72	7.28	62.15	7	$b83r$	

