

Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u_e^*$  and number *no.* = 00 .. 15

elementary hue text:

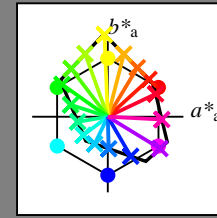
$u_e^* = 16$  hues *r00j, r25j, ..., b75r*

contrast reduction factor:

$c_R = 1.0$

FRS12\_95a; adapted (a) CIELAB data

$u_e^*$	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$	$u_d^*$
<i>r00j</i>	38.47	63.32	30.17	70.15	25	<i>m8lo</i>
<i>r25j</i>	42.12	54.56	49.45	73.64	42	<i>o10y</i>
<i>r50j</i>	53.64	39.15	64.89	75.79	59	<i>o40y</i>
<i>r75j</i>	67.01	21.26	82.83	85.52	76	<i>o69y</i>
<i>j00g</i>	86.18	-4.38	108.53	108.62	92	<i>o98y</i>
<i>j25g</i>	69.73	-29.89	83.06	88.28	110	<i>y34l</i>
<i>j50g</i>	57.03	-48.31	63.49	79.78	127	<i>y69l</i>
<i>j75g</i>	47.73	-60.33	42.64	73.88	145	<i>l03c</i>
<i>g00b</i>	50.59	-49.08	15.74	51.54	162	<i>l23c</i>
<i>g25b</i>	52.97	-39.7	-6.72	40.27	190	<i>l55c</i>
<i>g50b</i>	54.85	-32.33	-24.35	40.48	217	<i>l87c</i>
<i>g75b</i>	49.92	-17.29	-36.02	39.96	244	<i>c20v</i>
<i>b00r</i>	40.91	1.28	-42.35	42.37	272	<i>c53v</i>
<i>b25r</i>	26.81	30.38	-52.26	60.45	300	<i>c87v</i>
<i>b50r</i>	32.52	69.06	-42.14	80.9	329	<i>v68m</i>
<i>b75r</i>	39.48	71.47	-3.69	71.57	357	<i>m34o</i>



%Gamut

$u_{rel}^* = 109$

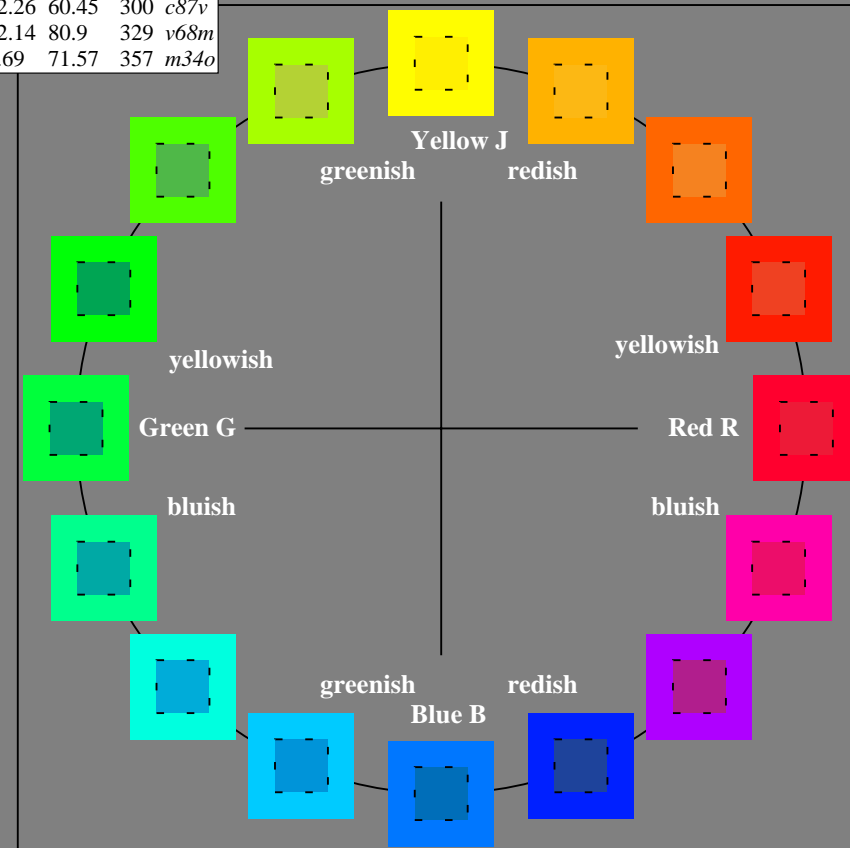
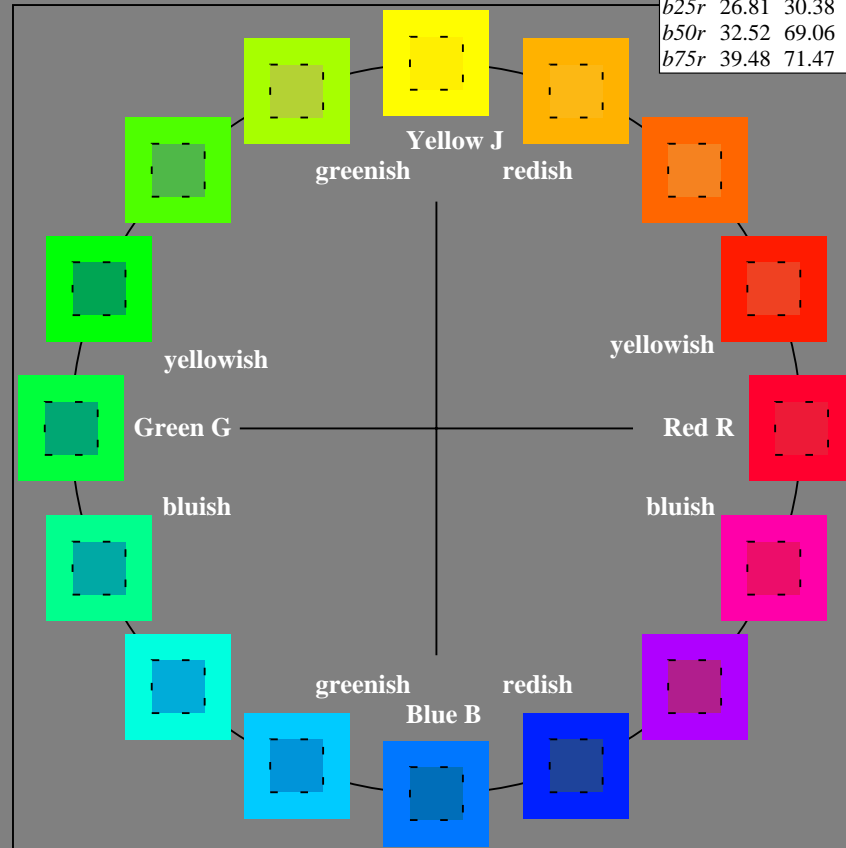
%Regularity

$g_{H,rel}^* = 31$

$g_{C,rel}^* = 40$

FRS12\_95a; adapted (a) CIELAB data

Name	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$

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

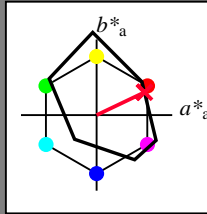
Hue texts:

$u^*_e = r00j$   $u^*_d = m81o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 38 63 30

$LAB^*LCH^*_{Ma}$ : 38 70 25

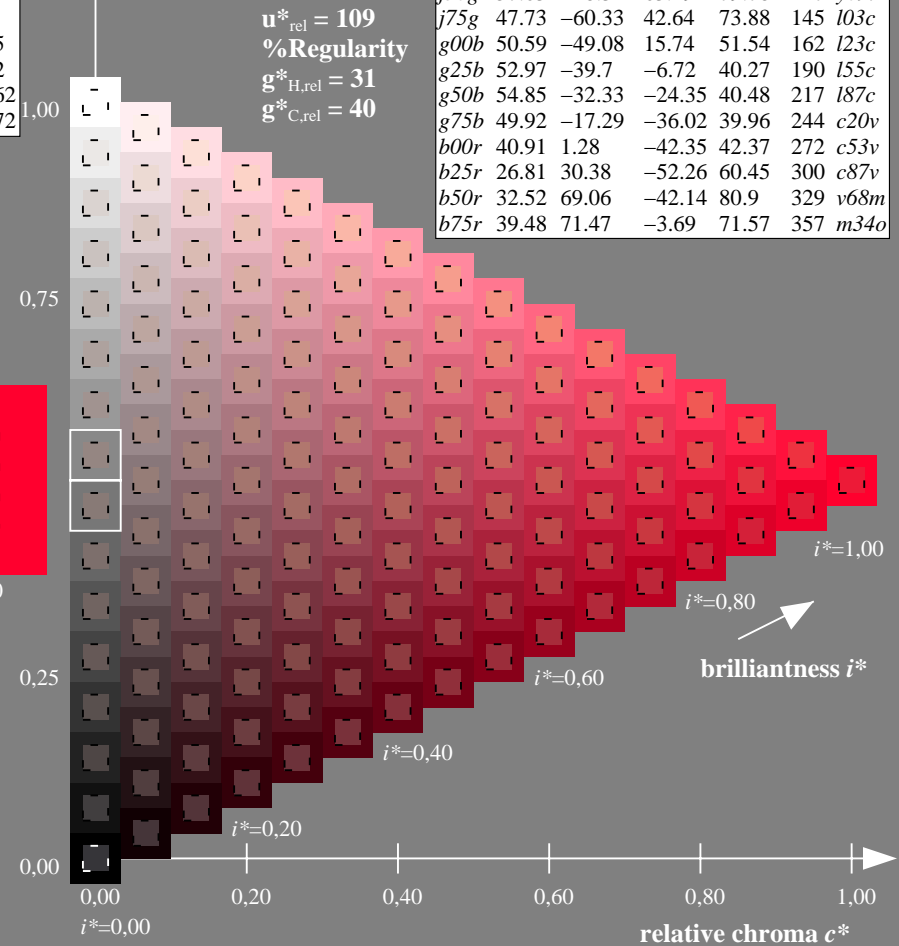
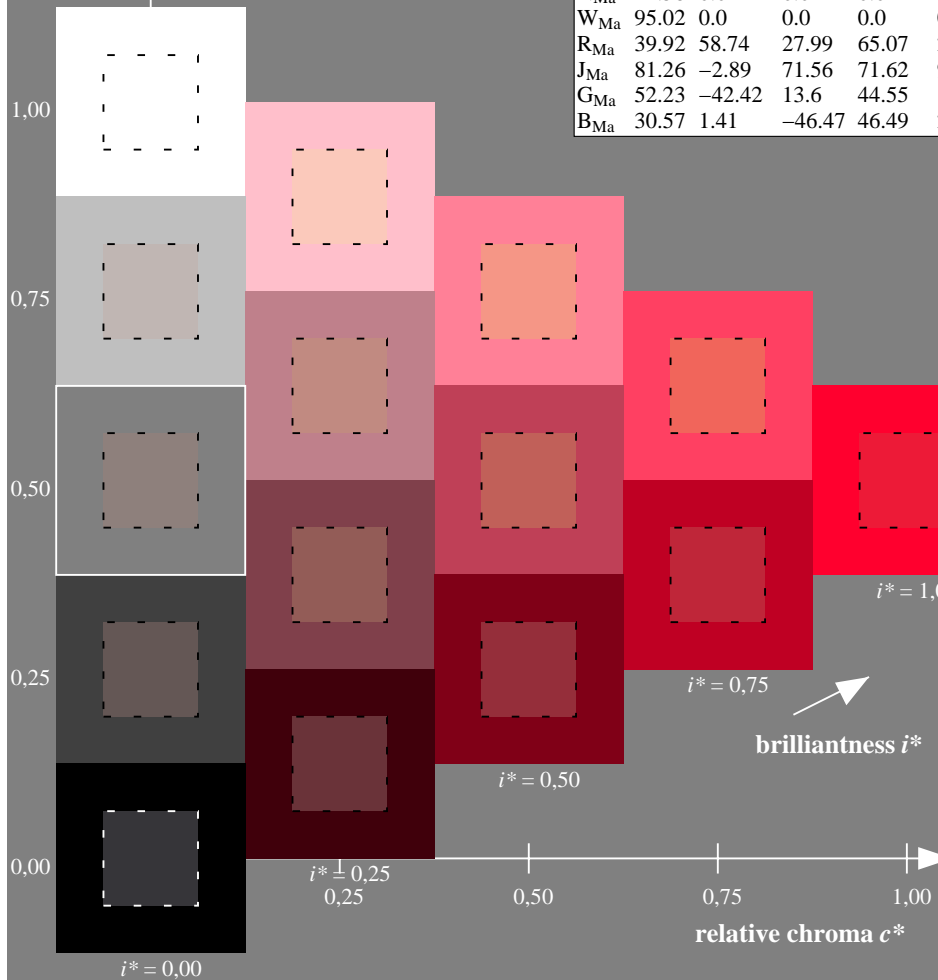
$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$u^*_e = r25j$

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

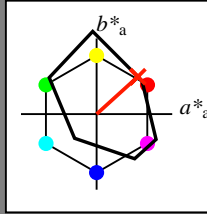
Hue texts:

$u^*_e = r25j$   $u^*_d = o10y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 42 55 49

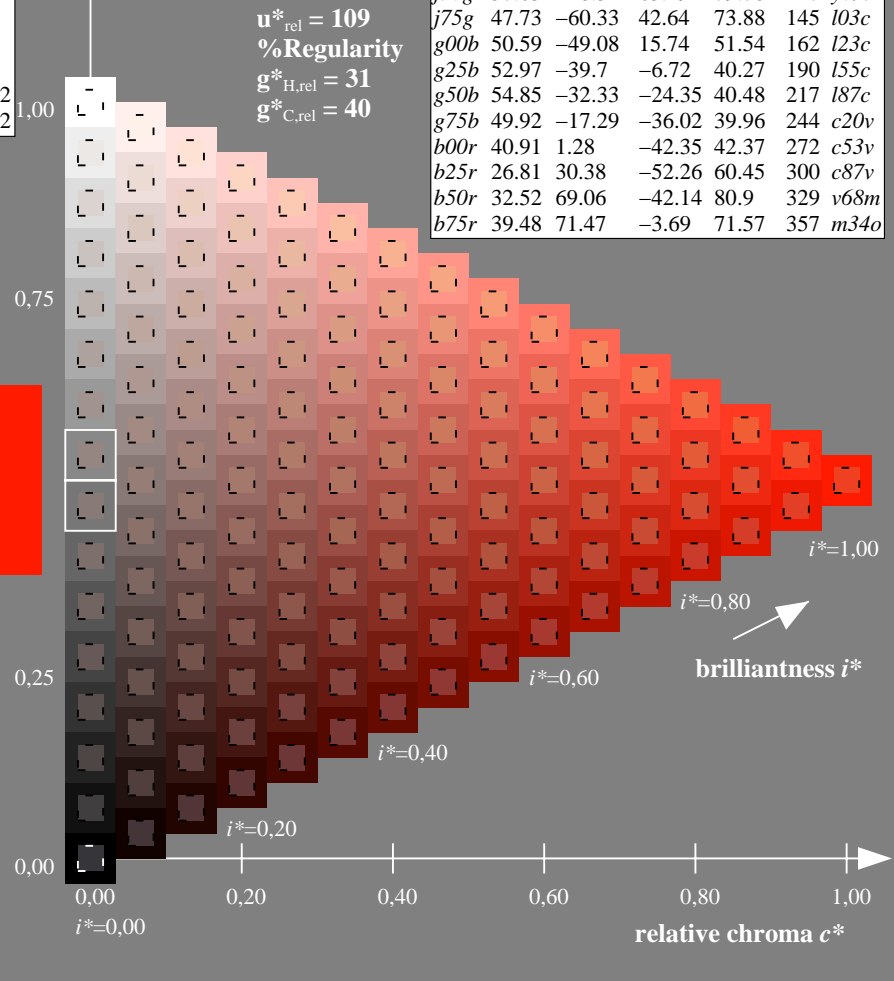
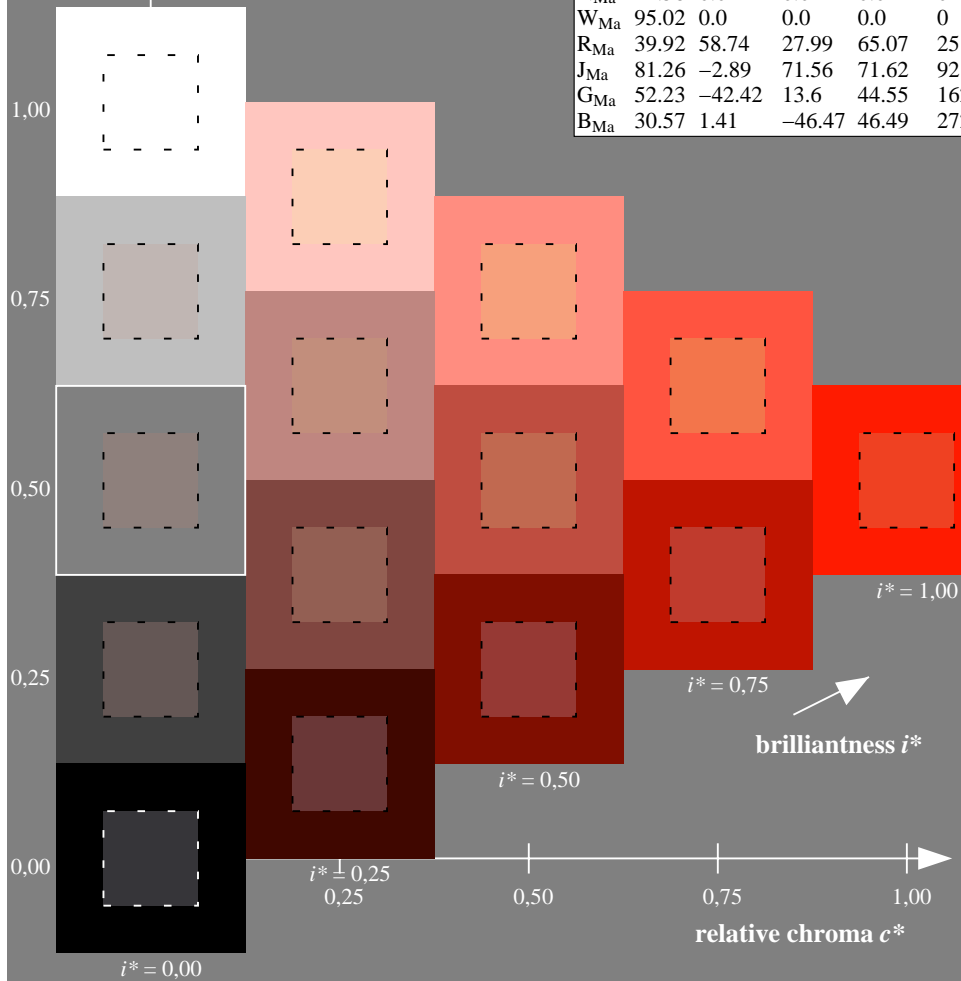
$LAB^*LCH^*_{Ma}$ : 42 74 42

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

$lab^*olv^*_{Ma}$ : 1.0 0.11 0.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$

$u^*_e = r50j$

data for any colour:

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

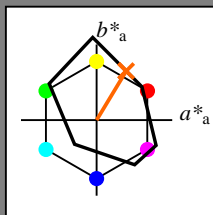
Hue texts:

$u^*_e = r50j$   $u^*_d = o40y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 54 39 65

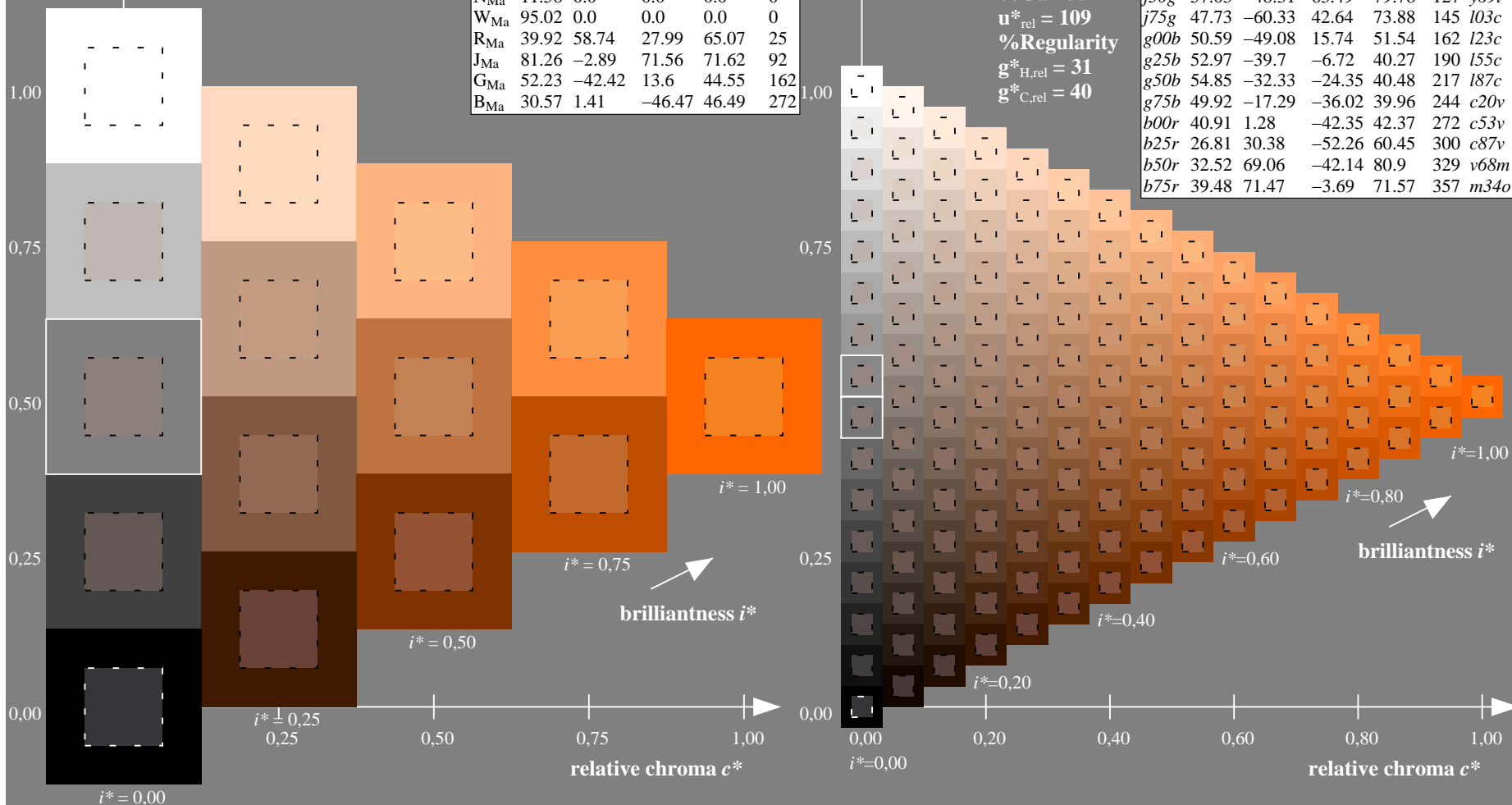
$LAB^*LCH^*_{Ma}$ : 54 76 58

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

$lab^*olv^*_{Ma}$ : 1.0 0.4 0.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	





Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$

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

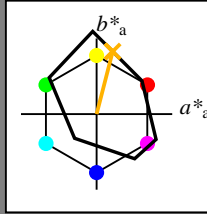
Hue texts:

$u^*_e = r75j$   $u^*_d = o69y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 67 21 83

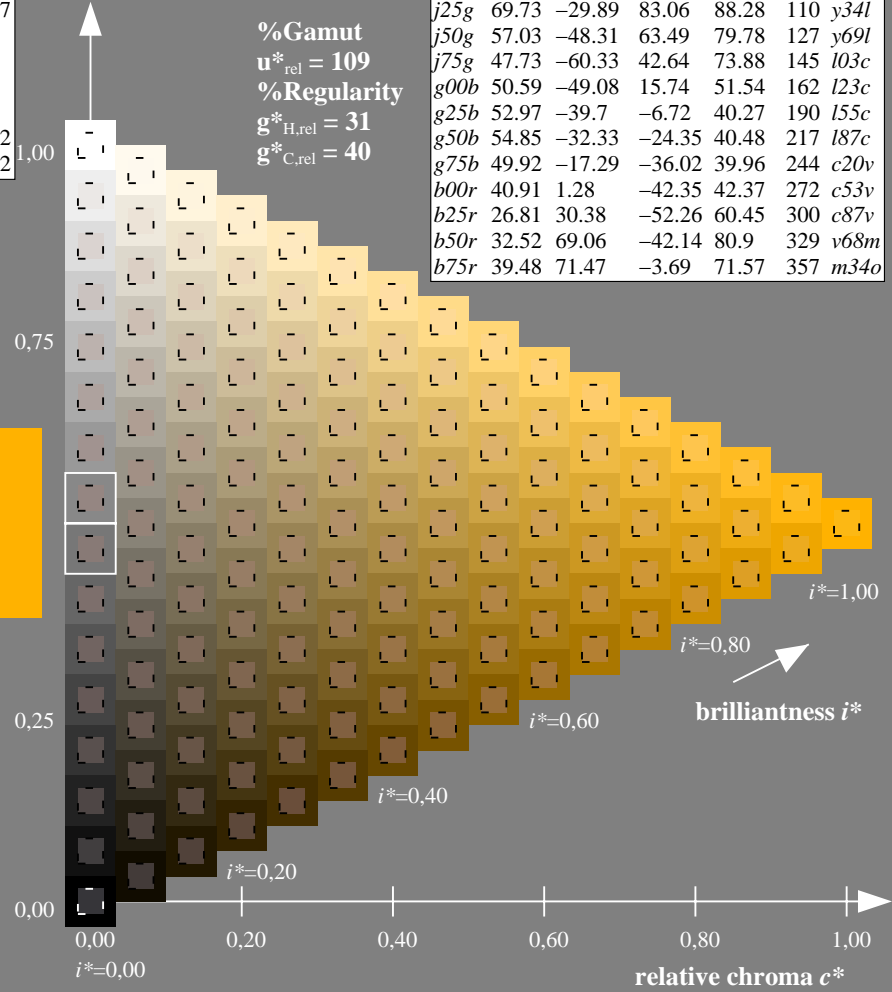
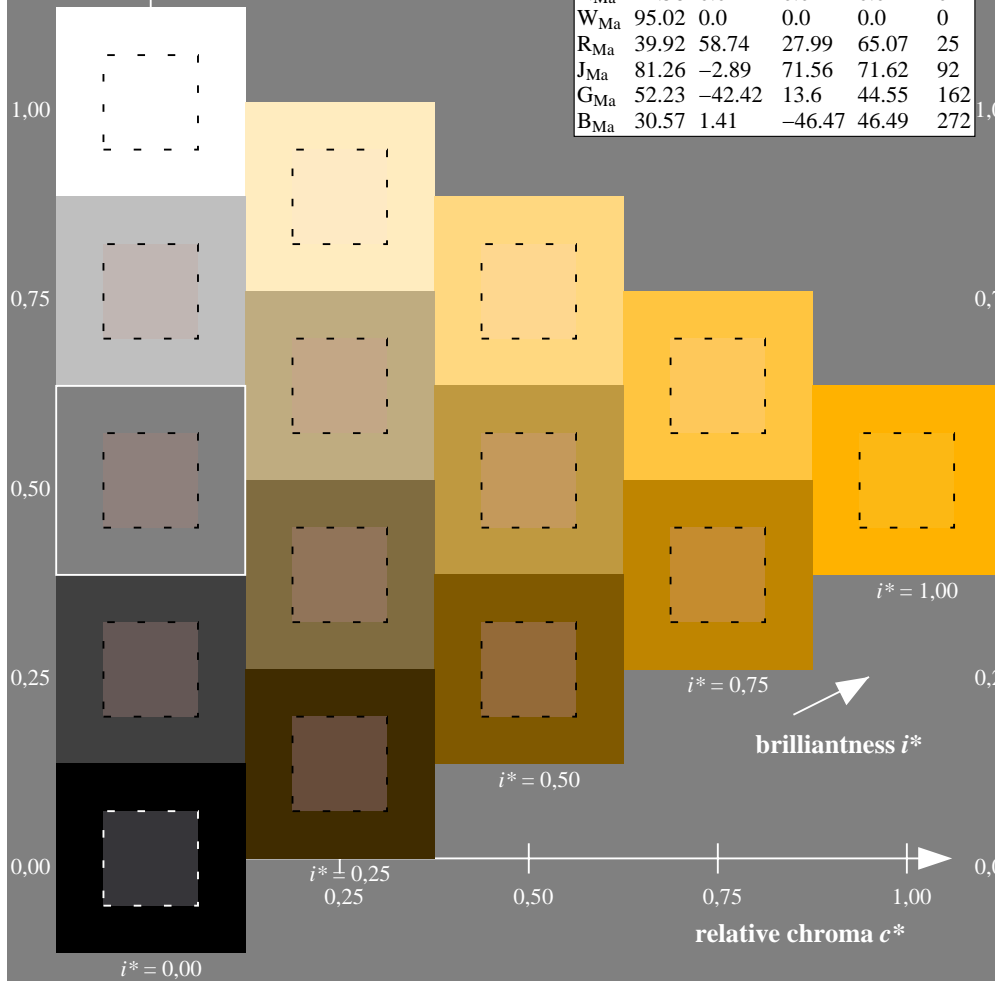
$LAB^*LCH^*_{Ma}$ : 67 86 75

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

$lab^*olv^*_{Ma}$ : 1.0 0.7 0.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$   
 data for any colour:

$u^*_e = j00g$

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

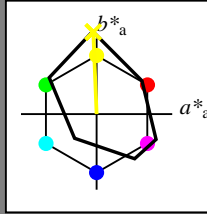
Hue texts:

$u^*_e = j00g$   $u^*_d = o98y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
$O_{Ma}$	38.06	60.0	44.0	74.4	36	
$Y_{Ma}$	86.77	-5.17	109.32	109.44	93	
$L_{Ma}$	47.13	-62.67	48.24	79.09	142	
$C_{Ma}$	55.66	-29.14	-31.99	43.27	228	
$V_{Ma}$	17.15	50.3	-59.04	77.57	310	
$M_{Ma}$	40.37	78.64	-33.5	85.48	337	
$N_{Ma}$	11.58	0.0	0.0	0.0	0	
$W_{Ma}$	95.02	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 -4 109

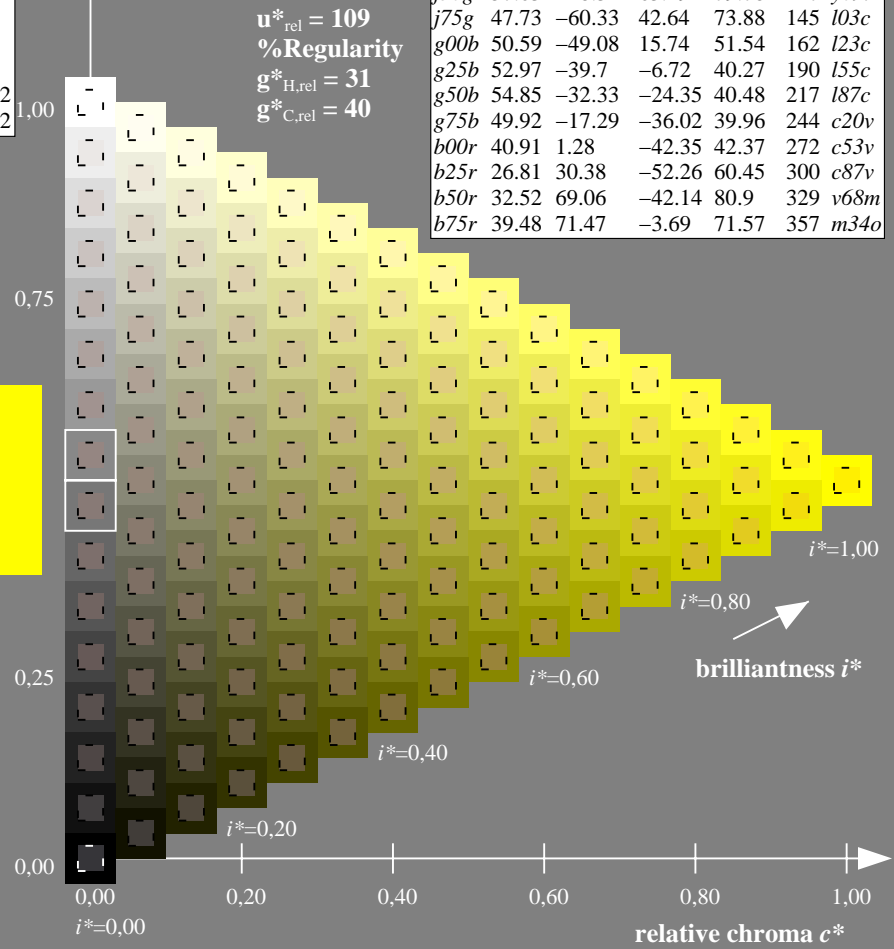
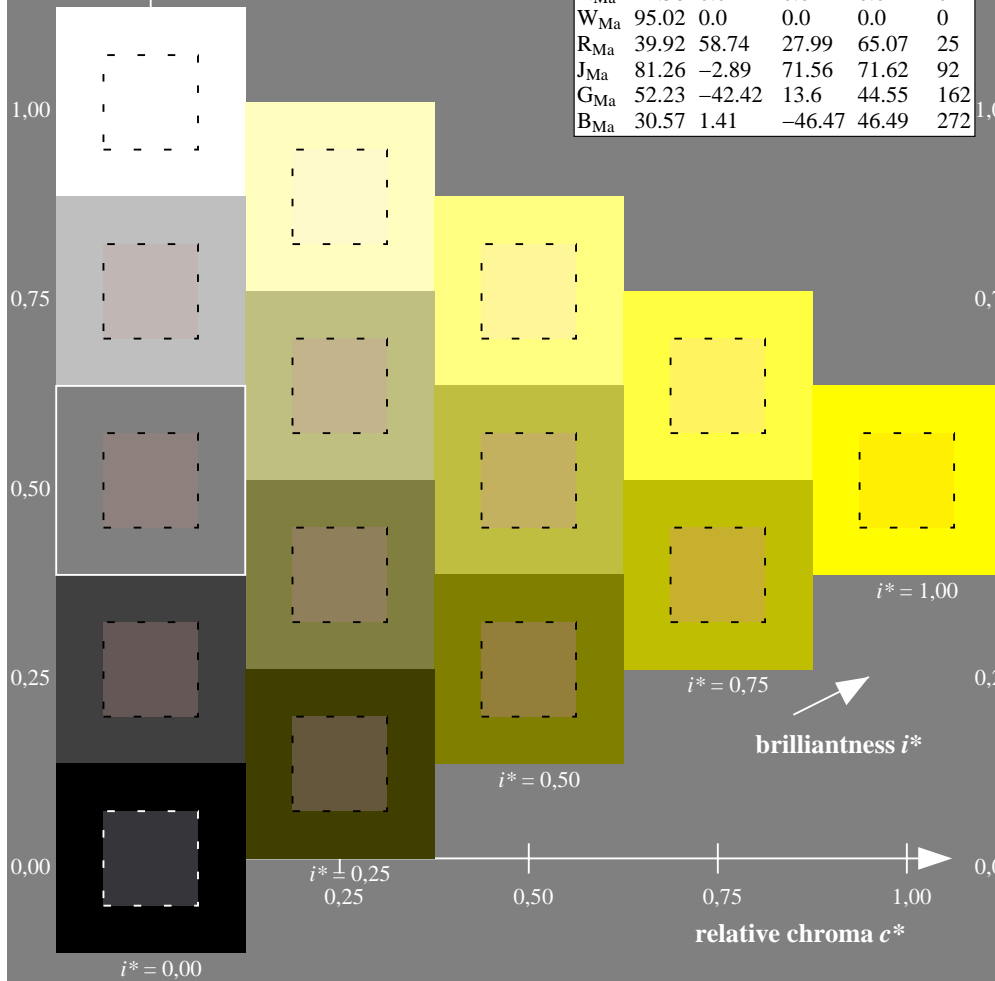
$LAB^*LCH^*_{Ma}$ : 86 109 92

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

$lab^*olv^*_{Ma}$ : 1.0 0.99 0.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$	
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$	
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$	
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$	
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$	
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$	
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$	
$j75g$	47.73	-60.33	42.64	73.88	145	$l03c$	
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$	
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$	
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$	
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$	
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$	
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$	
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$	
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$

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

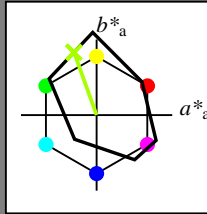
Hue texts:

$u^*_e = j25g$   $u^*_d = y34l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

$LAB^*LCH^*_{Ma}: 70 88 109$

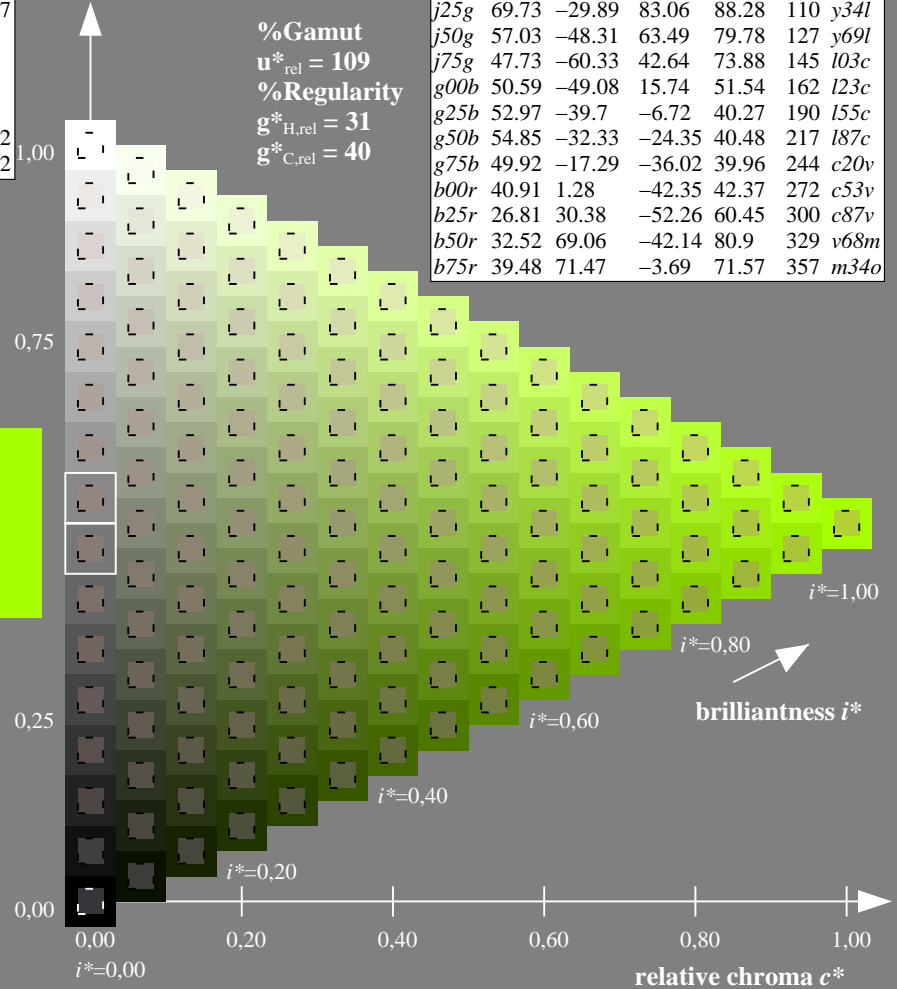
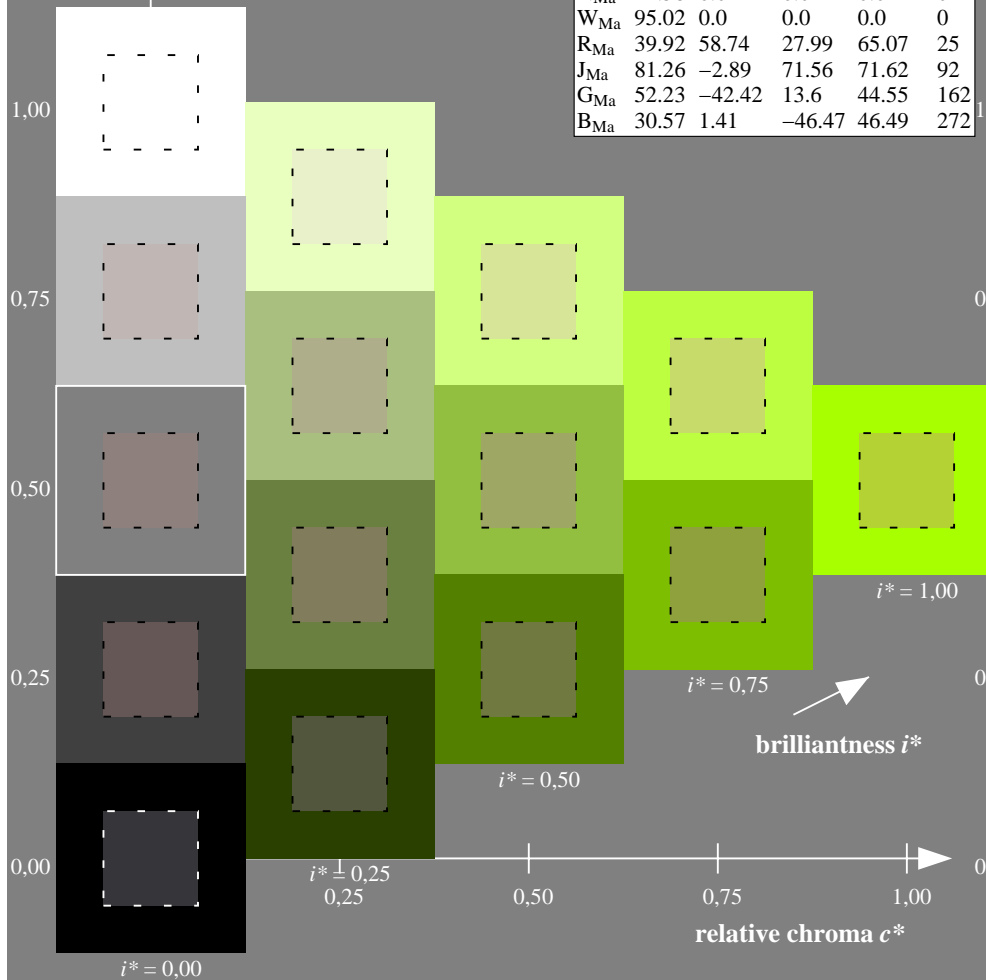
$lab^*rgb^*_{Ma}: 0.75 1.0 0.0$

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$

$u^*_e = j50g$

data for any colour:

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

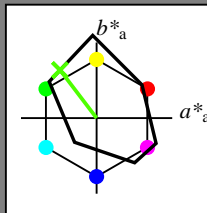
Hue texts:

$u^*_e = j50g$   $u^*_d = y69l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

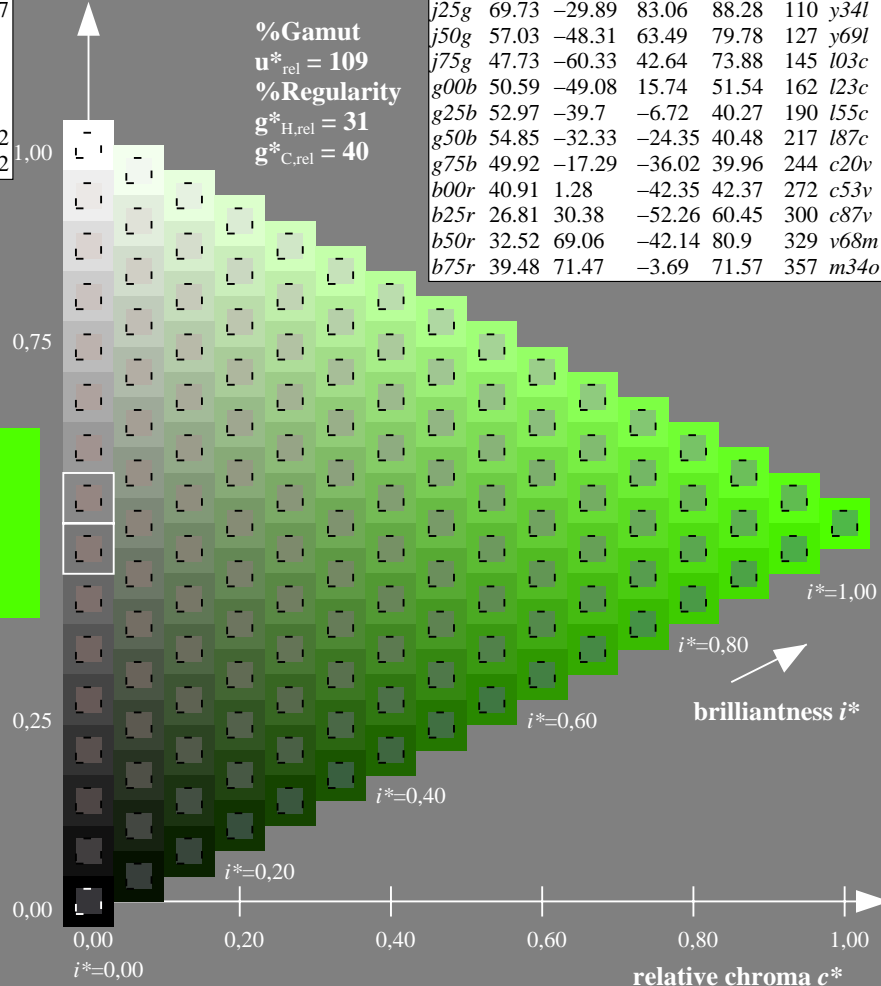
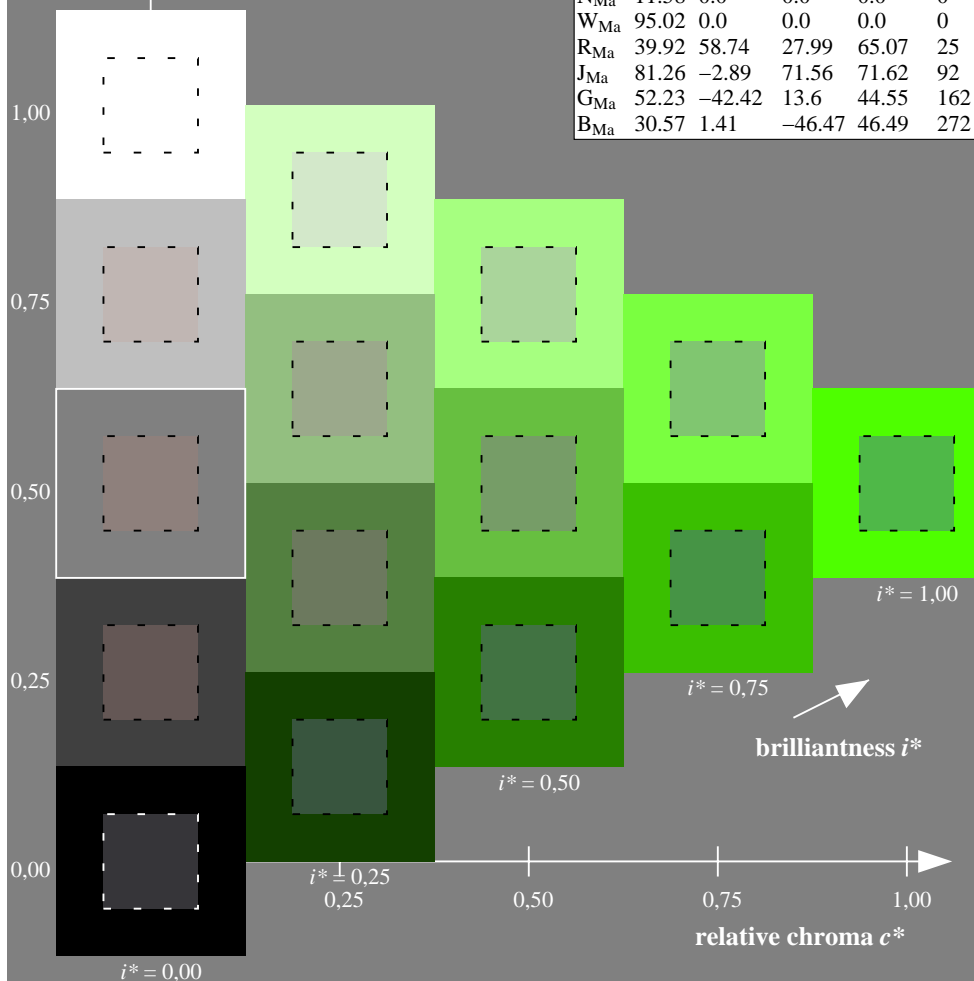
$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$

$u^*_e = j75g$

data for any colour:

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

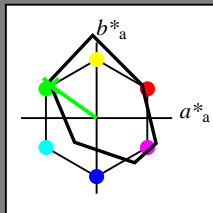
Hue texts:

$u^*_e = j75g$   $u^*_d = l03c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 48 -60 43

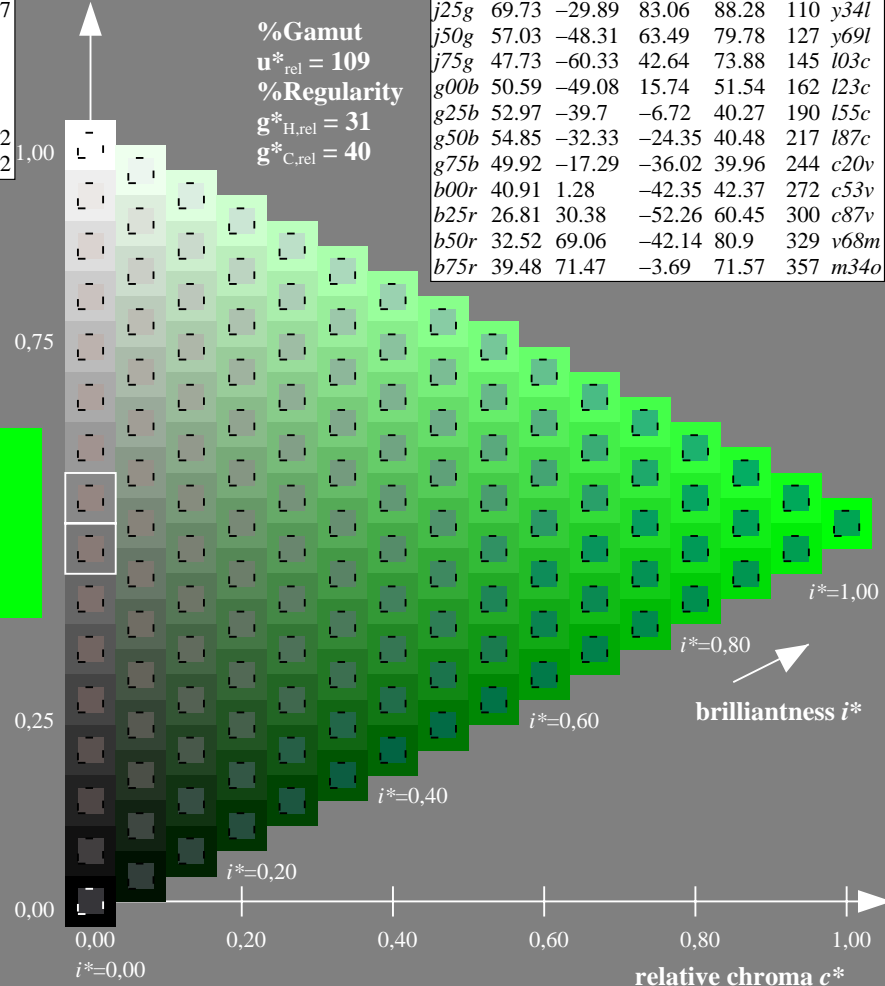
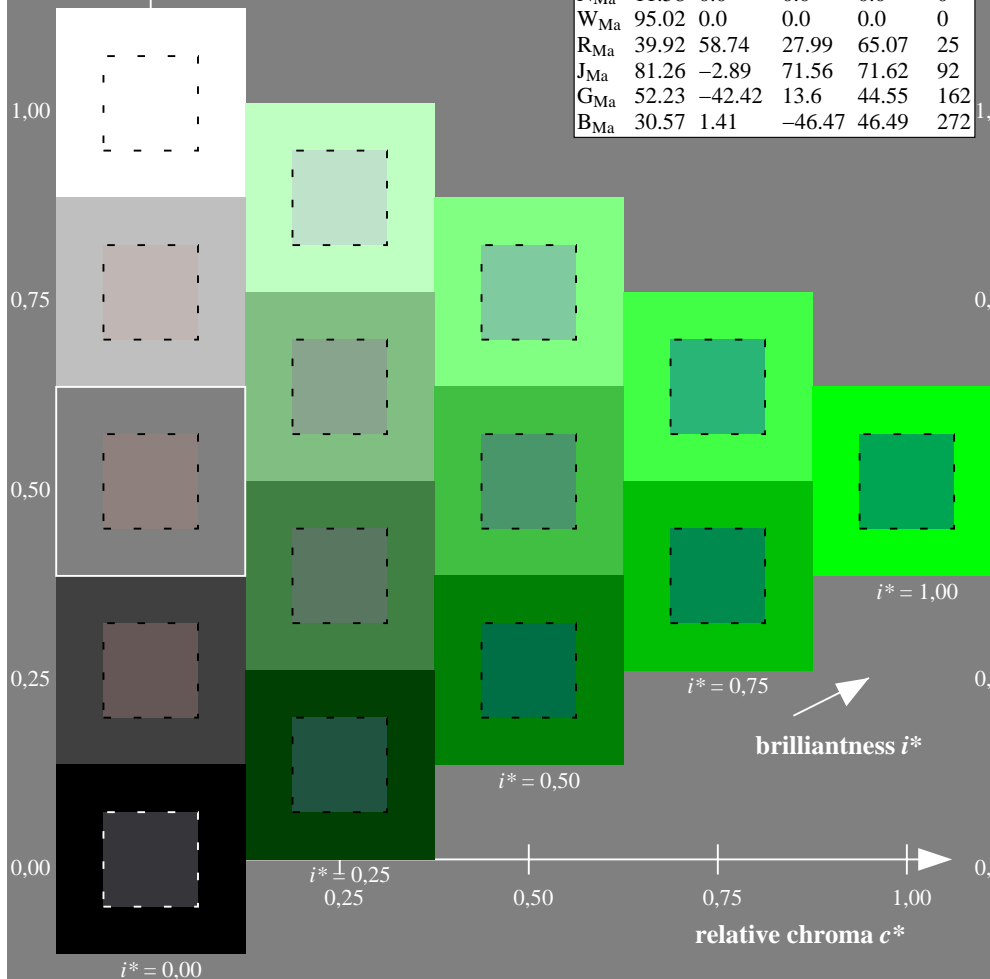
$LAB^*LCH^*_{Ma}$ : 48 74 144

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

$lab^*olv^*_{Ma}$ : 0.0 1.0 0.03

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$

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

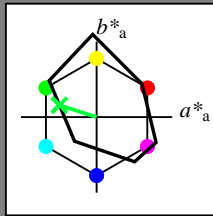
Hue texts:

$u^*_e = g00b$   $u^*_d = l23c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
$O_{Ma}$	38.06	60.0	44.0	74.4	36	
$Y_{Ma}$	86.77	-5.17	109.32	109.44	93	
$L_{Ma}$	47.13	-62.67	48.24	79.09	142	
$C_{Ma}$	55.66	-29.14	-31.99	43.27	228	
$V_{Ma}$	17.15	50.3	-59.04	77.57	310	
$M_{Ma}$	40.37	78.64	-33.5	85.48	337	
$N_{Ma}$	11.58	0.0	0.0	0.0	0	
$W_{Ma}$	95.02	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 ( $Ma$ ):

$LAB^*LAB^*_{Ma}: 51 -49 16$

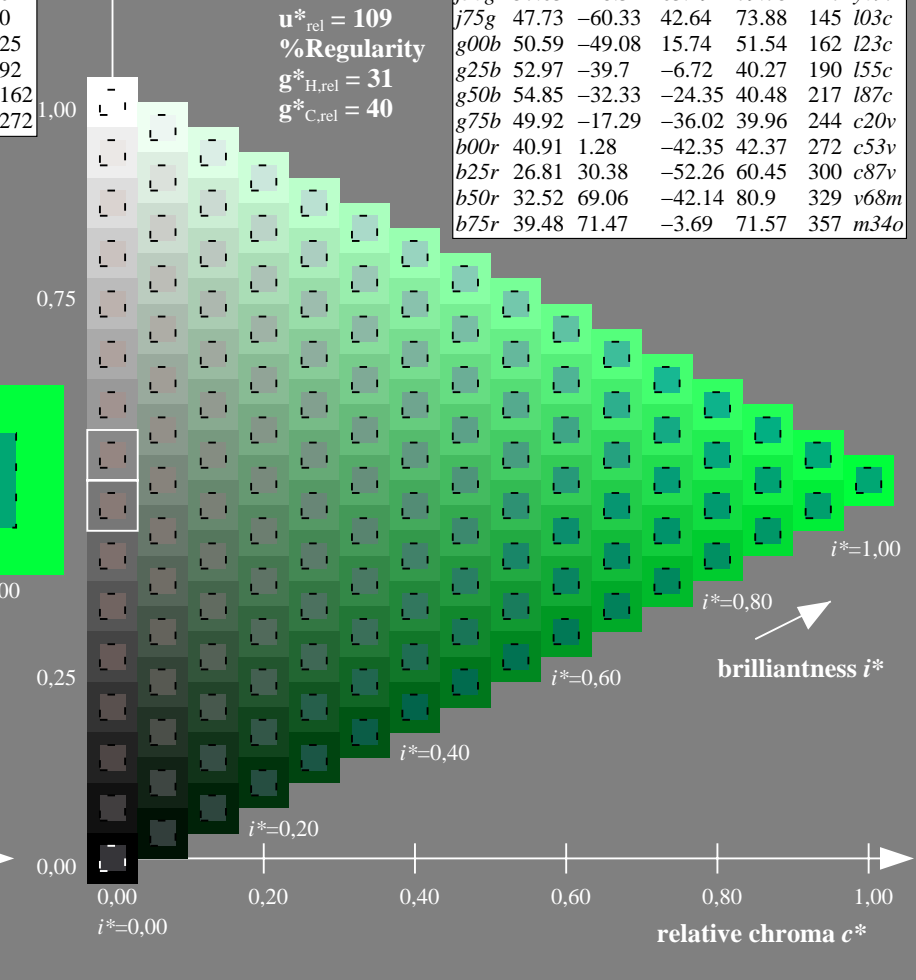
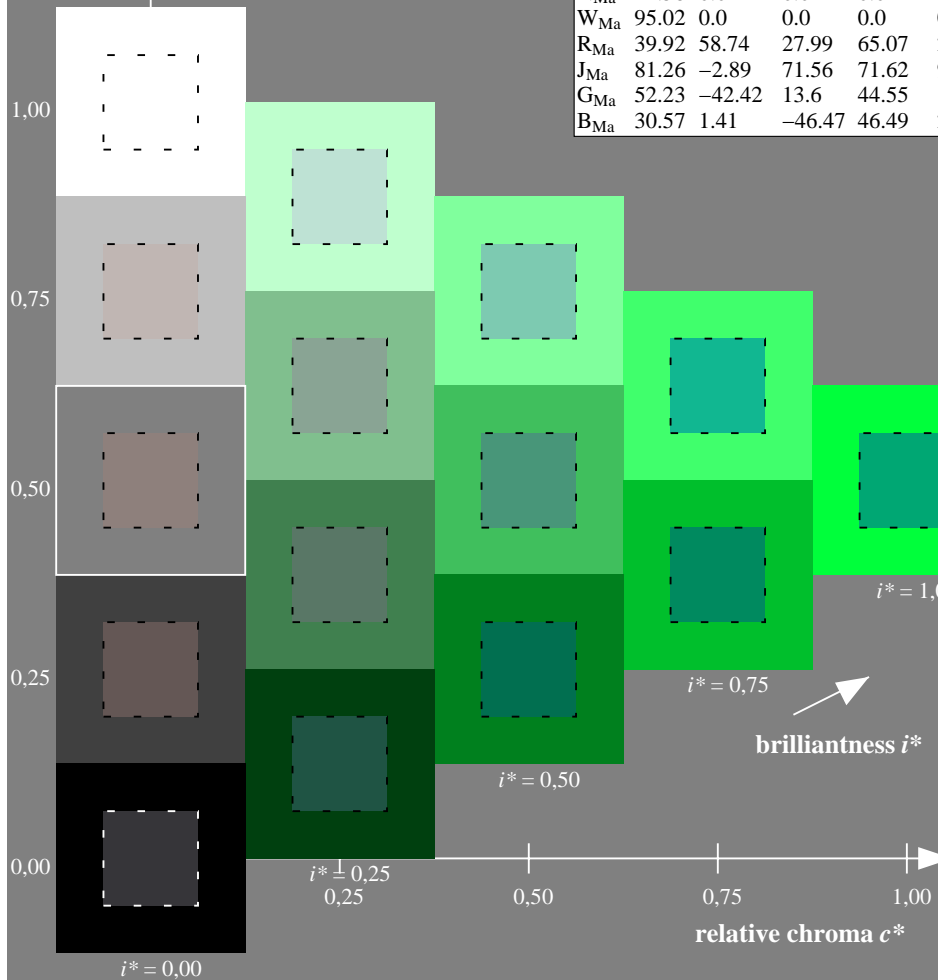
$LAB^*LCH^*_{Ma}: 51 52 162$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$	
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$	
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$	
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$	
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$	
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$	
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$	
$j75g$	47.73	-60.33	42.64	73.88	145	$l03c$	
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$	
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$	
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$	
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$	
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$	
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$	
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$	
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$	



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$

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

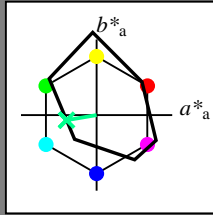
Hue texts:

$u^*_e = g25b$   $u^*_d = l55c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

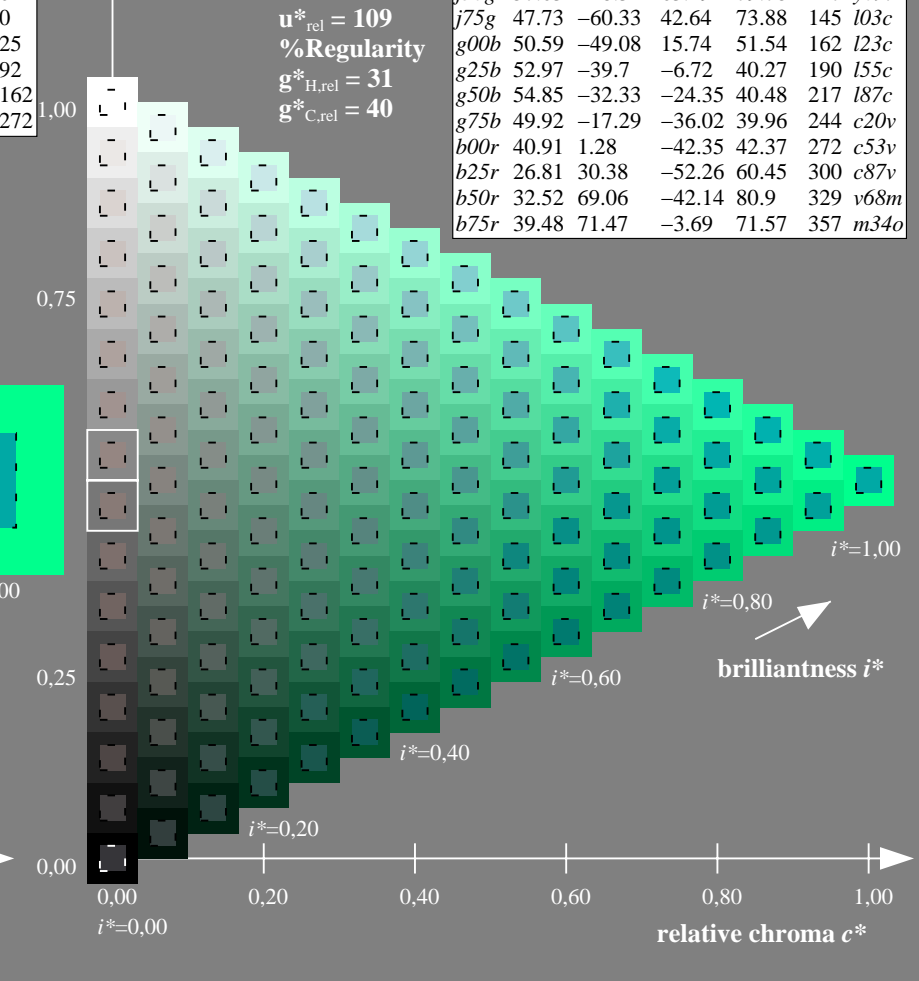
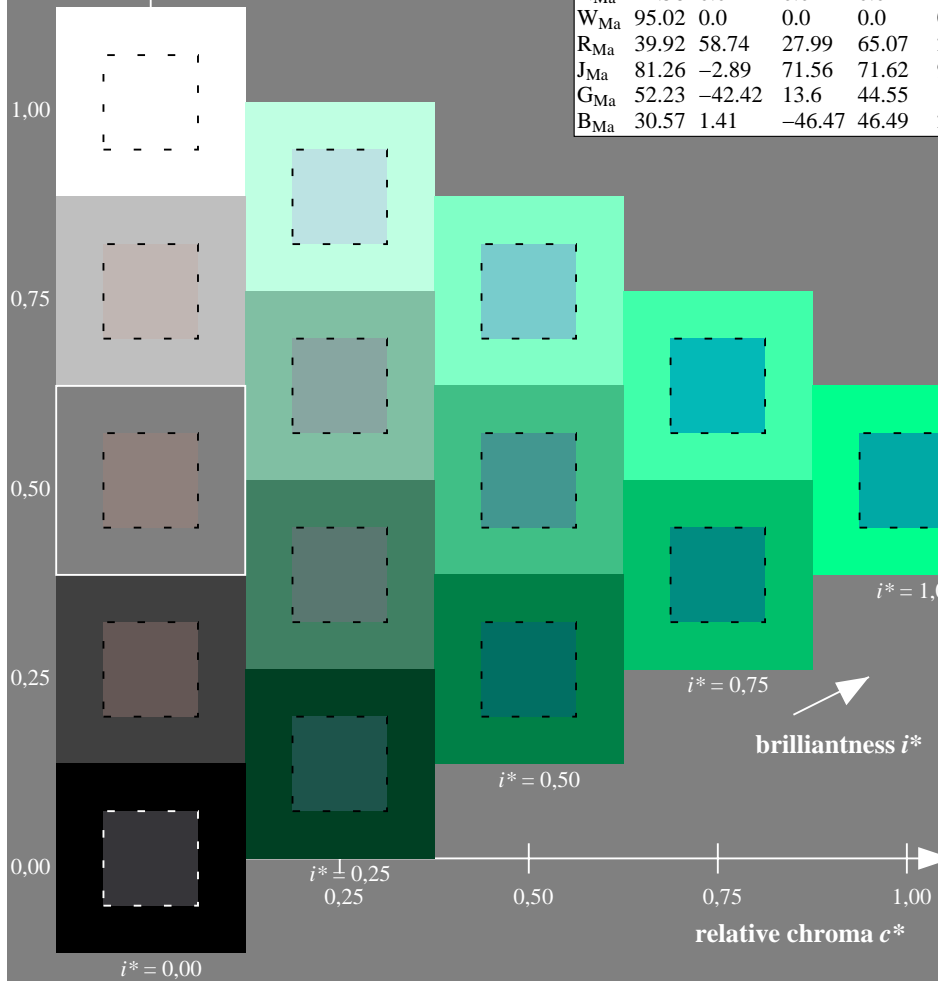
$lab^*rgb^*_{Ma}: 0.0 1.0 0.5$

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$

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

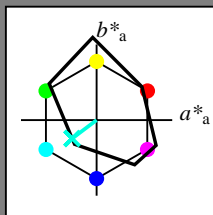
Hue texts:

$u^*_e = g50b$   $u^*_d = l87c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

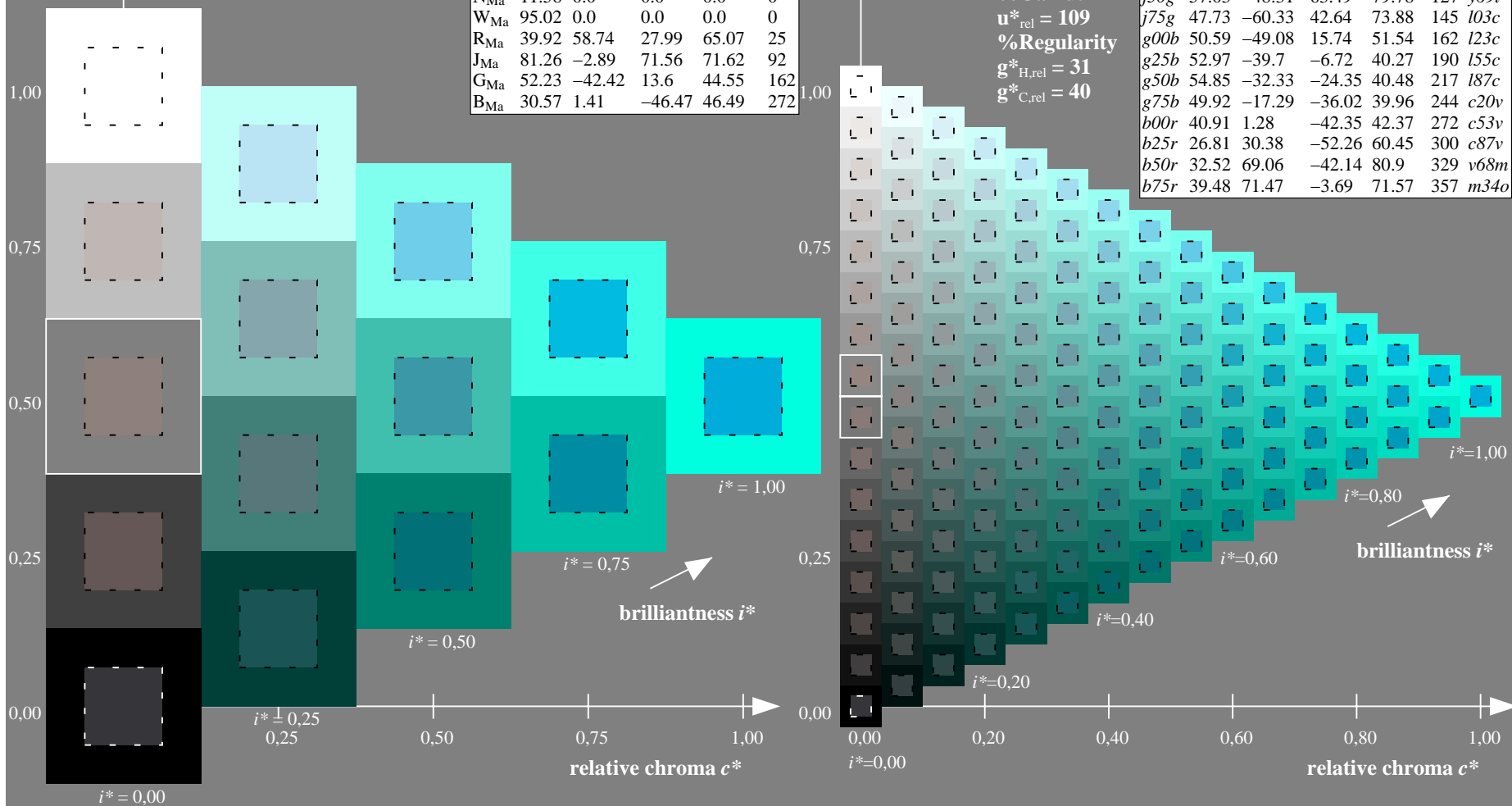
$lab^*rgb^*_{Ma}: 0.0 1.0 1.0$

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$

$u^*_e = g75b$

data for any colour:

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

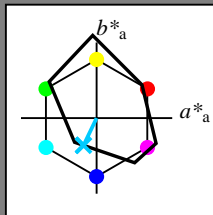
Hue texts:

$u^*_e = g75b$   $u^*_d = c20v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 50 -17 -36$

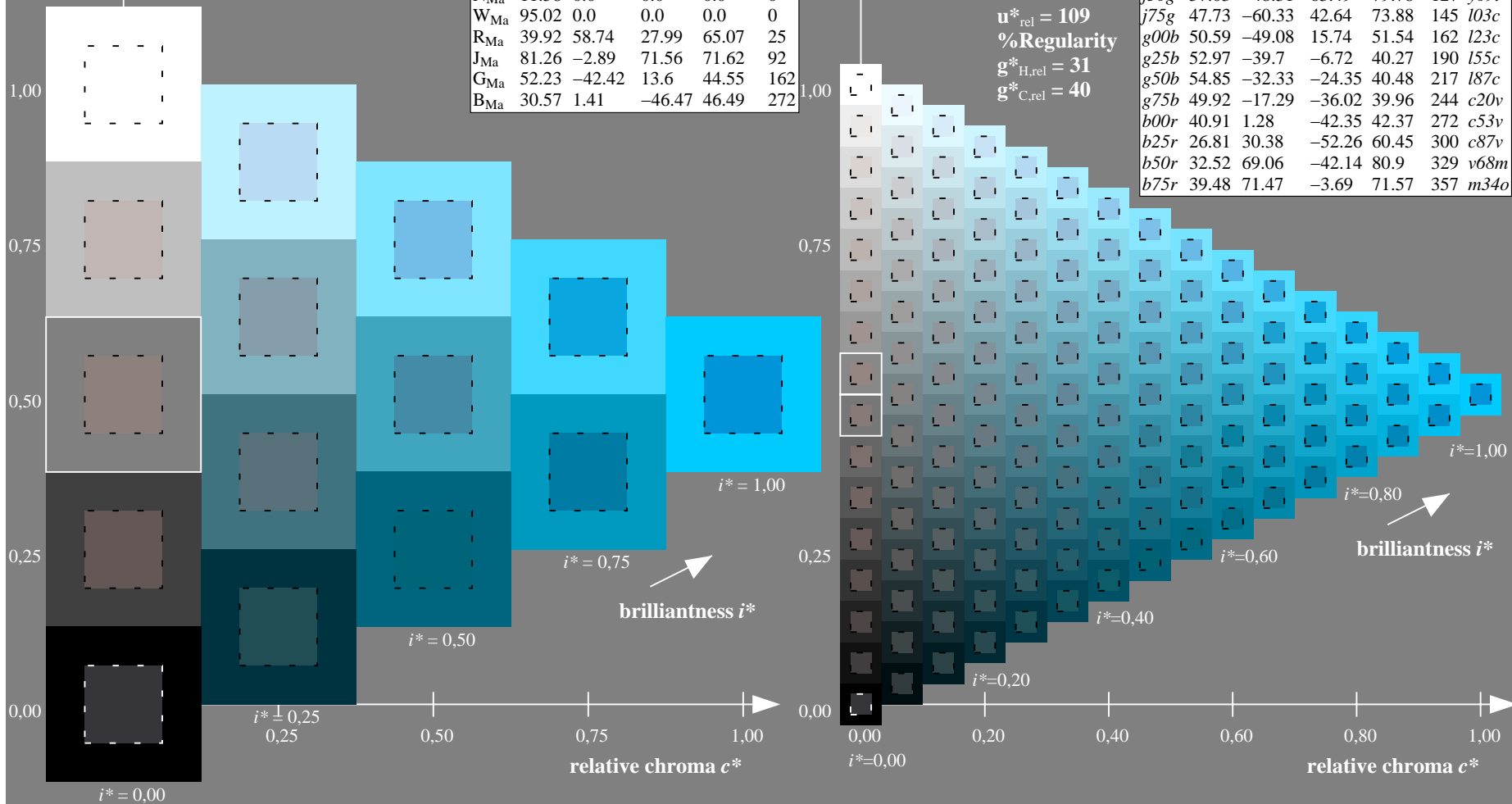
$LAB^*LCH^*_{Ma}: 50 40 244$

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

$lab^*olv^*_{Ma}: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$

data for any colour:

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

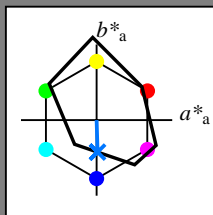
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 41 1 -42

$LAB^*LCH^*_{Ma}$ : 41 42 271

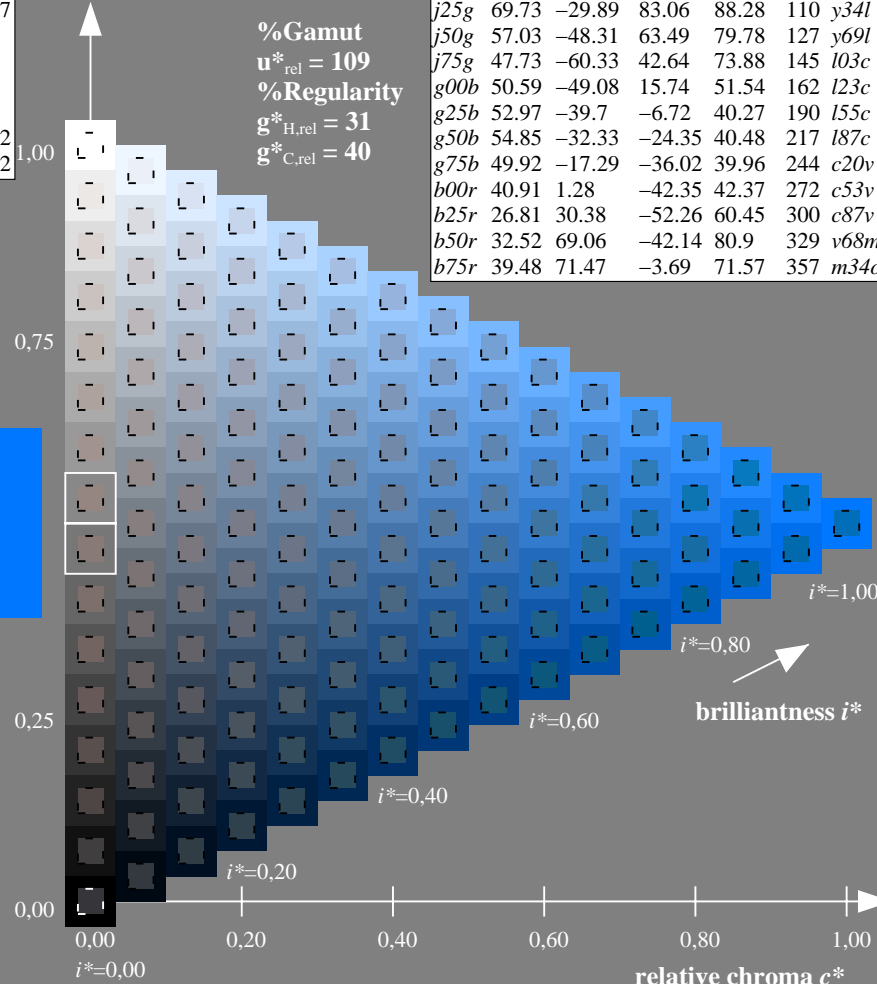
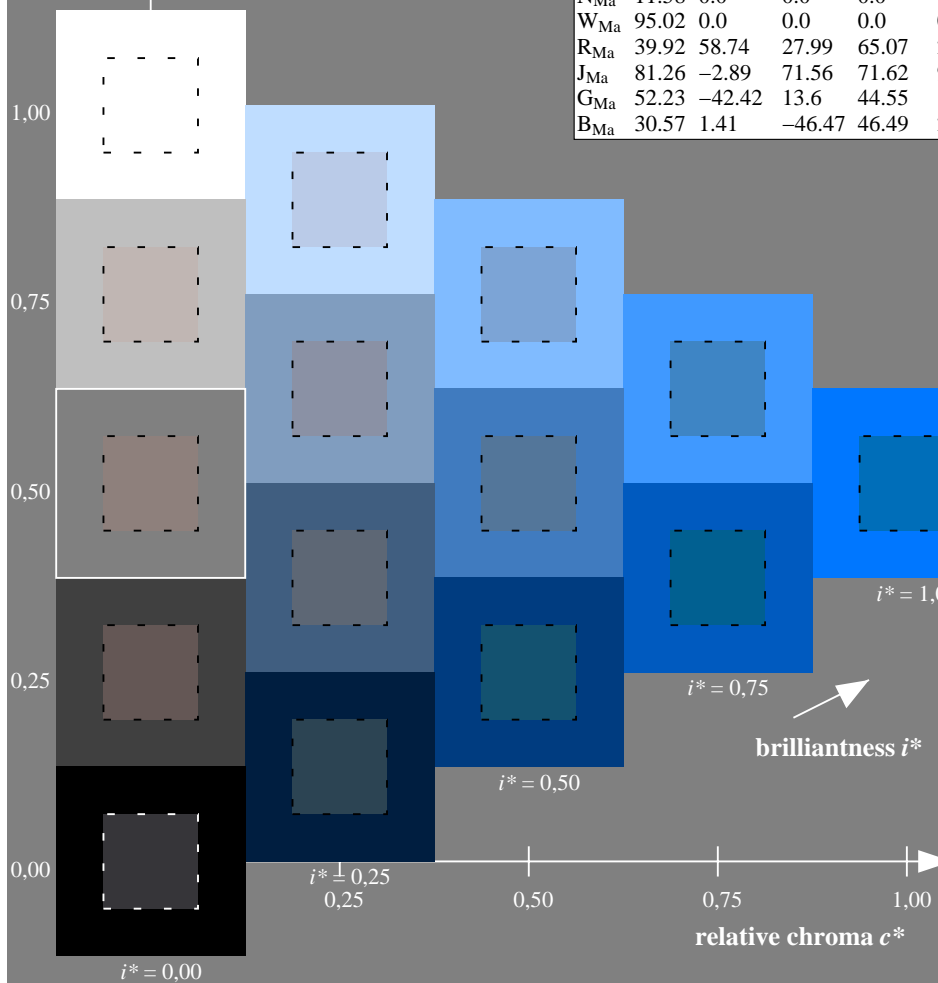
$lab^*rgb^*_{Ma}$ : 0.0 0.0 1.0

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$

data for any colour:

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

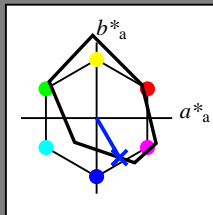
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 27 30 -52

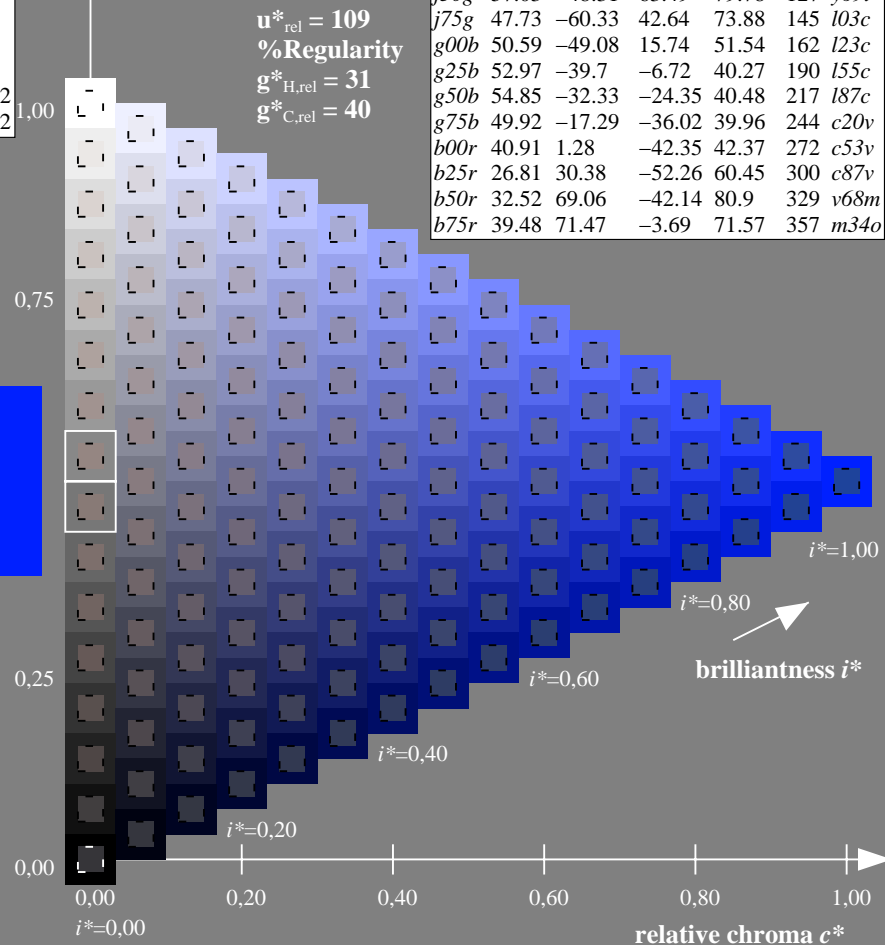
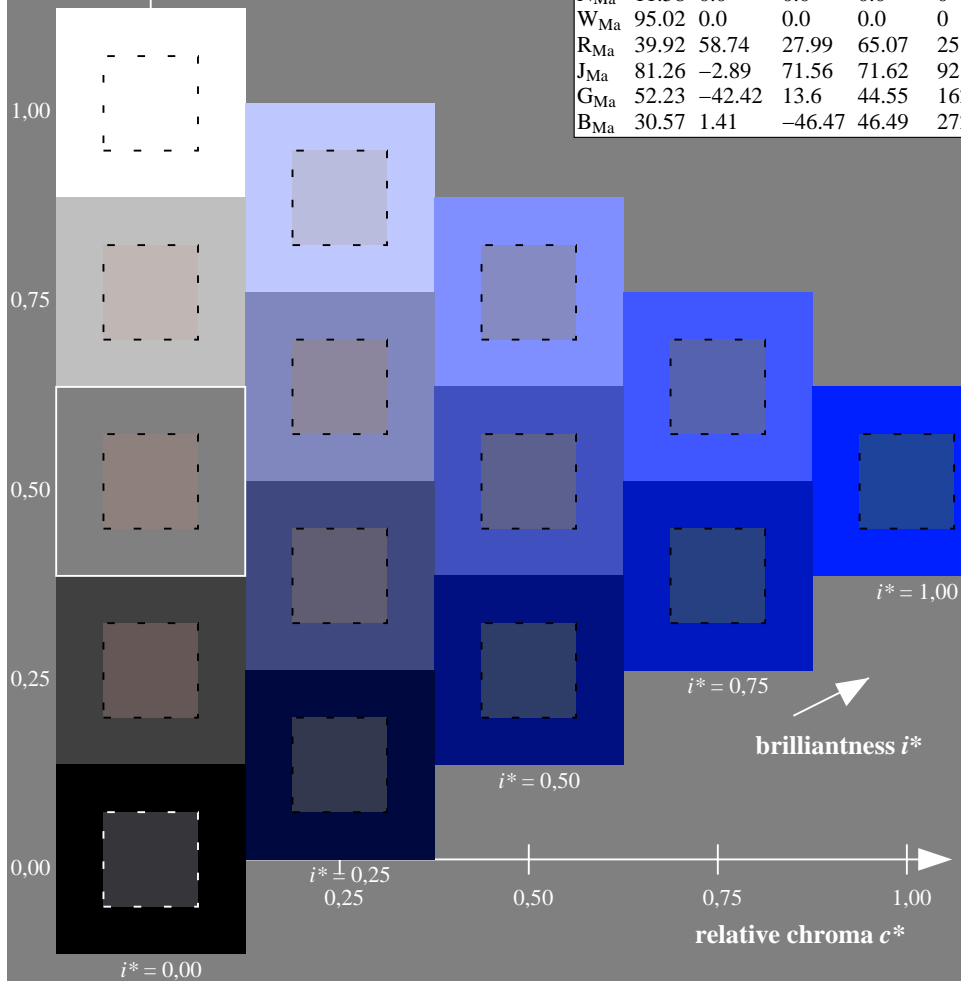
$LAB^*LCH^*_{Ma}$ : 27 60 300

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

$lab^*olv^*_{Ma}$ : 0.0 0.12 1.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$

$u^*_e = b50r$

data for any colour:

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

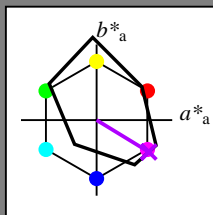
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
$O_{Ma}$	38.06	60.0	44.0	74.4	36	
$Y_{Ma}$	86.77	-5.17	109.32	109.44	93	
$L_{Ma}$	47.13	-62.67	48.24	79.09	142	
$C_{Ma}$	55.66	-29.14	-31.99	43.27	228	
$V_{Ma}$	17.15	50.3	-59.04	77.57	310	
$M_{Ma}$	40.37	78.64	-33.5	85.48	337	
$N_{Ma}$	11.58	0.0	0.0	0.0	0	
$W_{Ma}$	95.02	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 ( $Ma$ ):

$LAB^*LAB^*_{Ma}$ : 33 69 -42

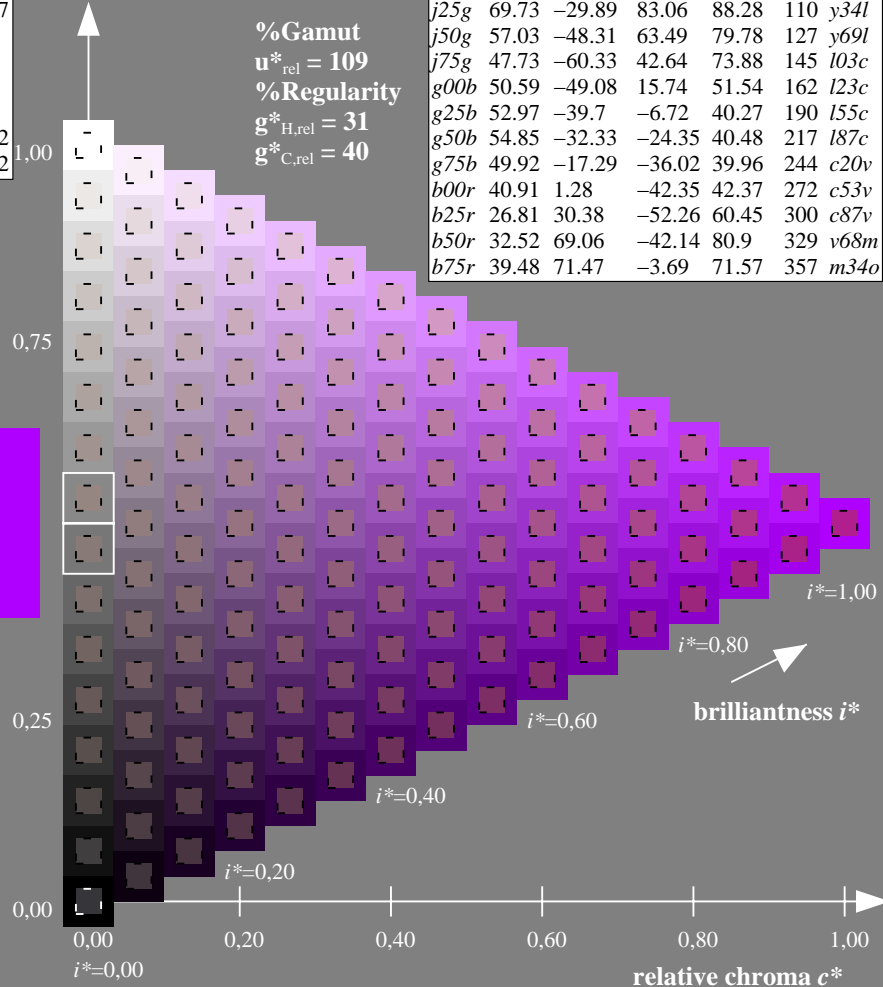
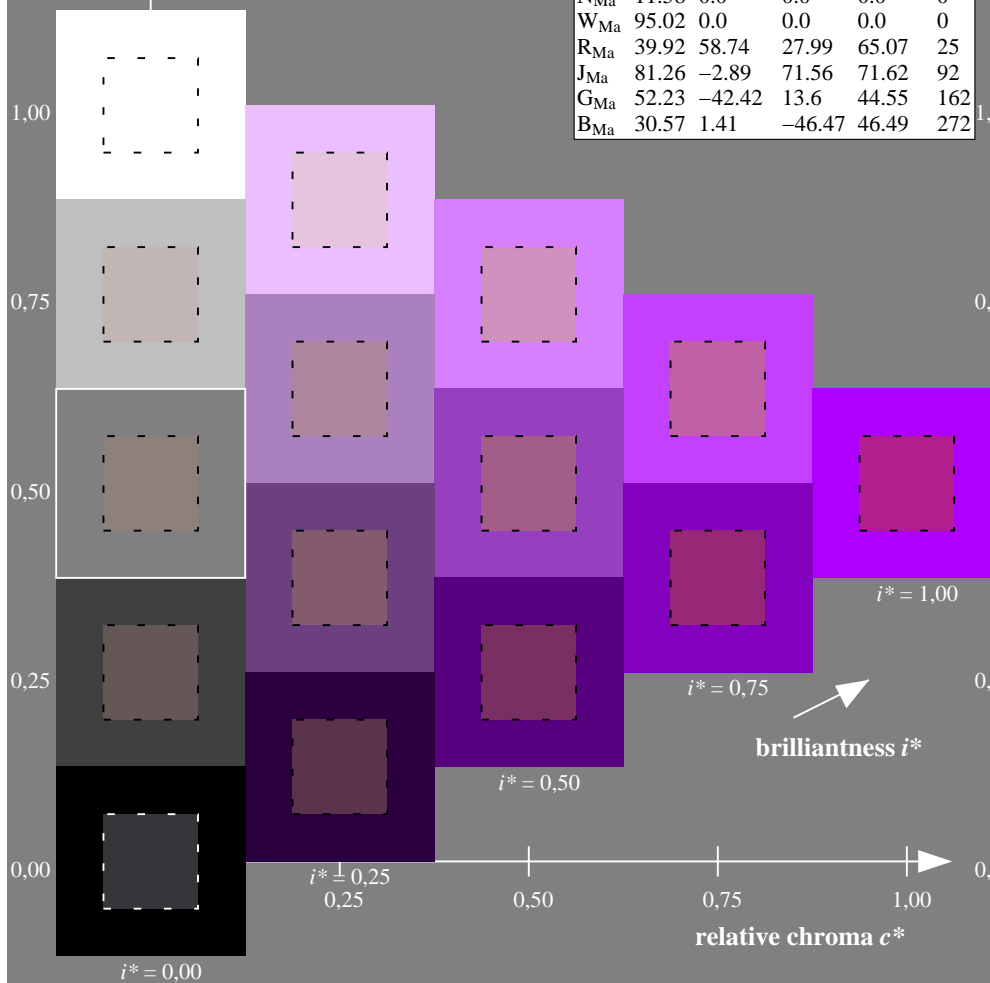
$LAB^*LCH^*_{Ma}$ : 33 81 328

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

$lab^*olv^*_{Ma}$ : 0.69 0.0 1.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$	
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$	
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$	
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$	
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$	
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$	
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$	
$j75g$	47.73	-60.33	42.64	73.88	145	$l03c$	
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$	
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$	
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$	
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$	
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$	
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$	
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$	
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$	



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$

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

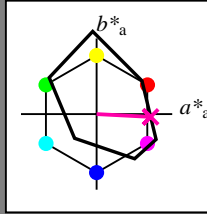
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 39 71 -4

$LAB^*LCH^*_{Ma}$ : 39 72 357

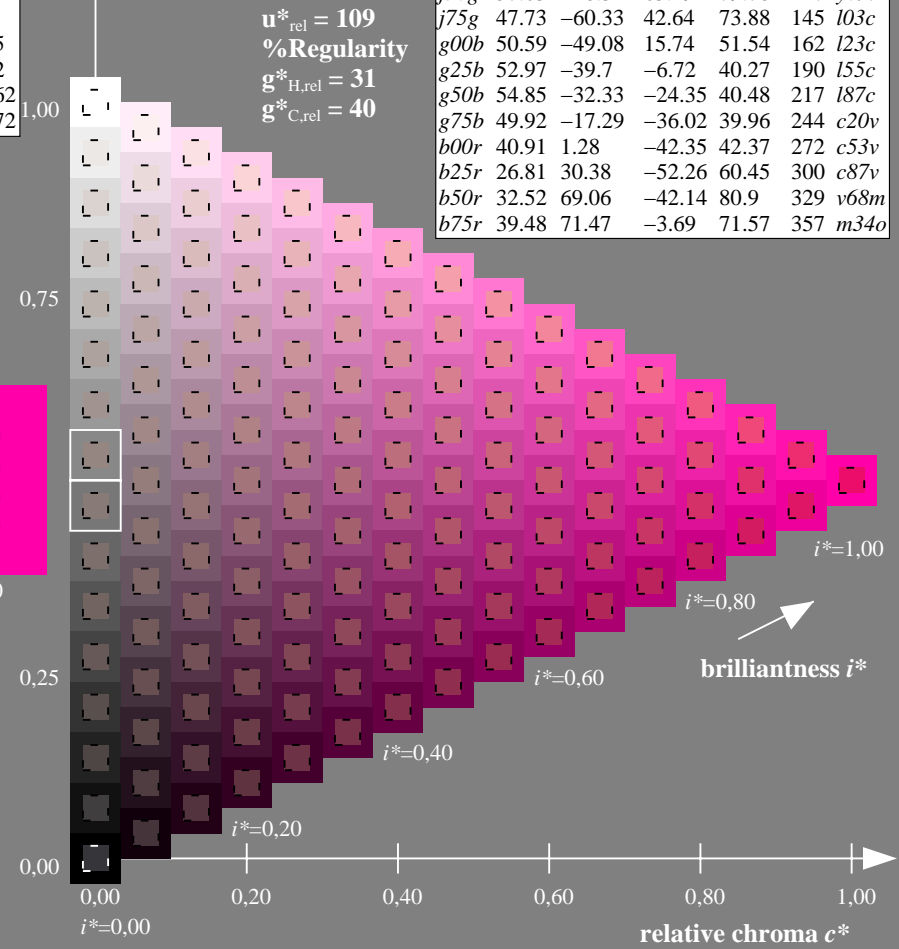
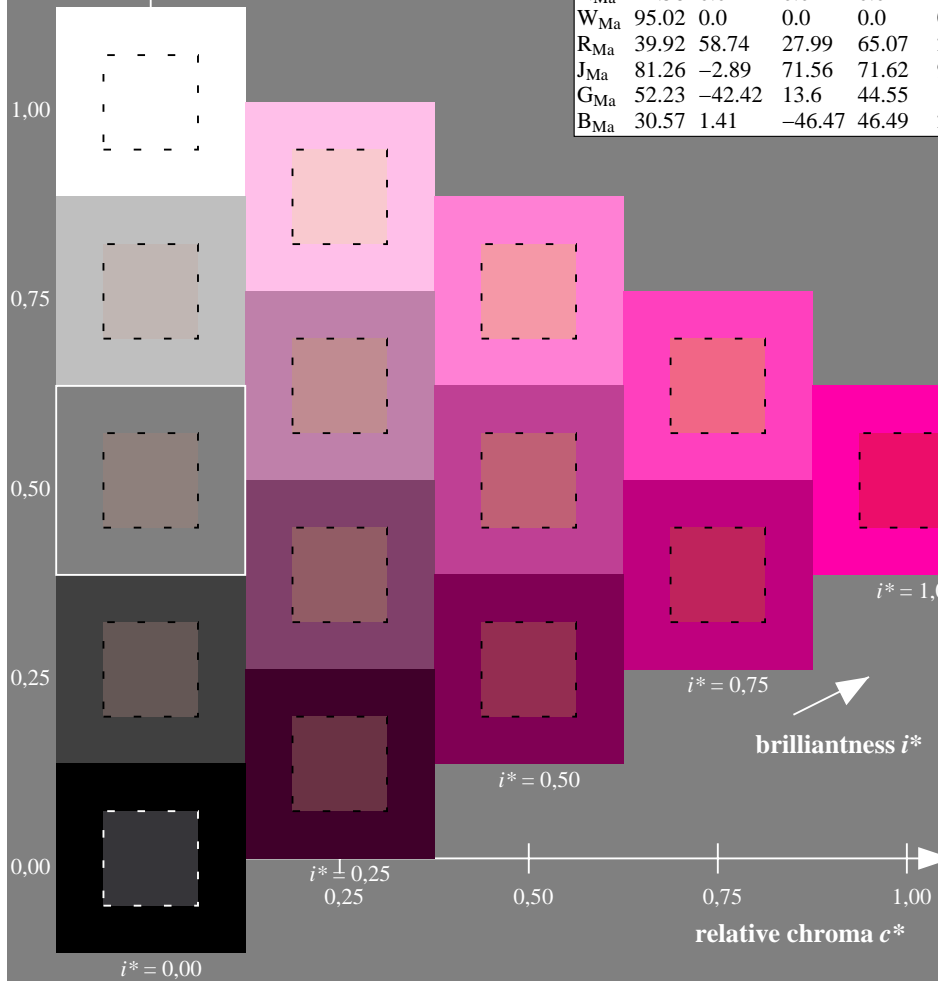
$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.5

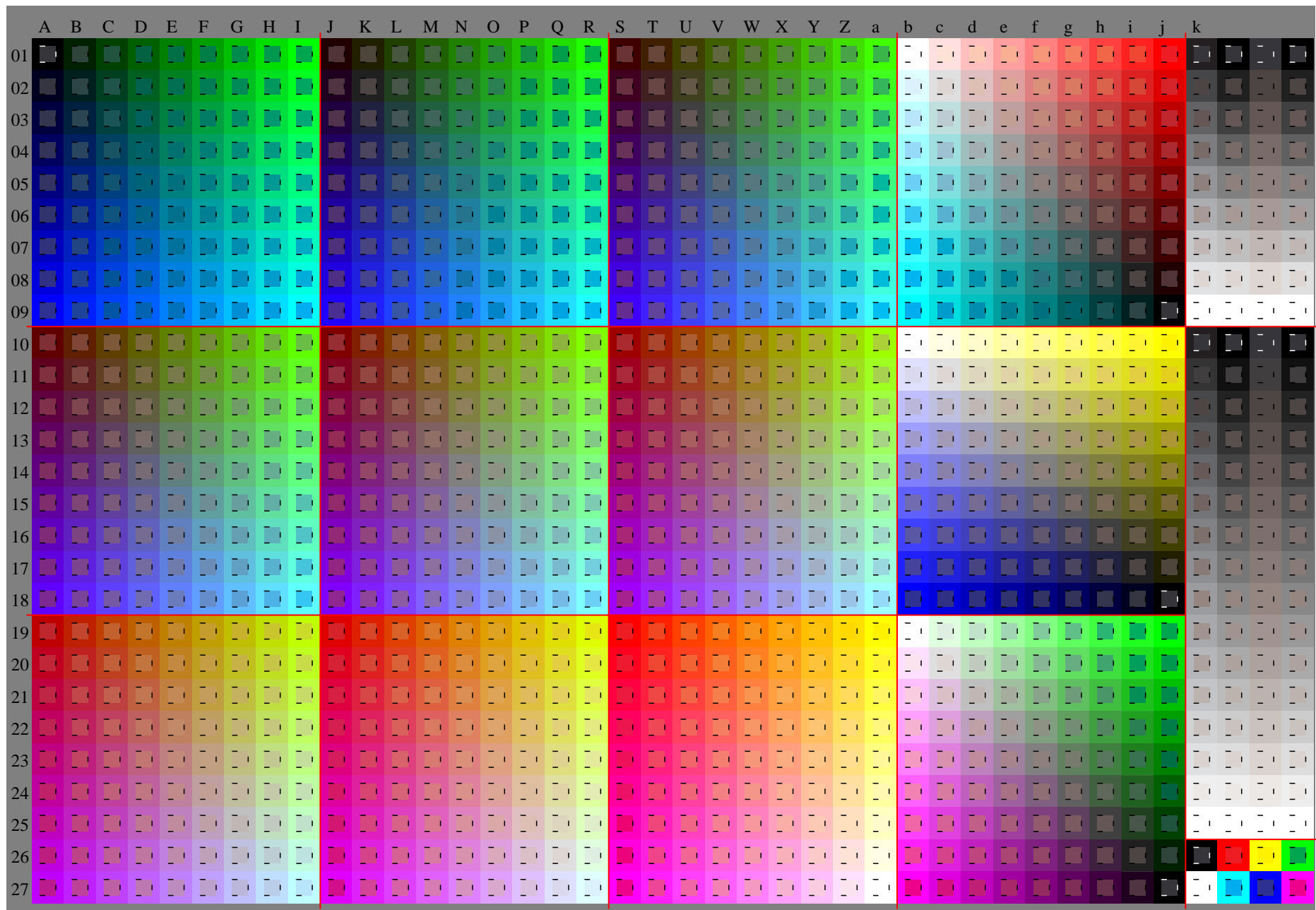
$lab^*olv^*_{Ma}$ : 1.0 0.0 0.66

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o





Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15

elementary hue text:

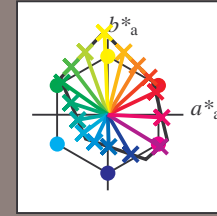
$u^*_e = 16$  hues *r00j, r25j, ..., b75r*

contrast reduction factor:

$c_R = 1.0$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
<i>r00j</i>	38.47	63.32	30.17	70.15	25	<i>m8lo</i>
<i>r25j</i>	42.12	54.56	49.45	73.64	42	<i>o10y</i>
<i>r50j</i>	53.64	39.15	64.89	75.79	59	<i>o40y</i>
<i>r75j</i>	67.01	21.26	82.83	85.52	76	<i>o69y</i>
<i>j00g</i>	86.18	-4.38	108.53	108.62	92	<i>o98y</i>
<i>j25g</i>	69.73	-29.89	83.06	88.28	110	<i>y34l</i>
<i>j50g</i>	57.03	-48.31	63.49	79.78	127	<i>y69l</i>
<i>j75g</i>	47.73	-60.33	42.64	73.88	145	<i>l03c</i>
<i>g00b</i>	50.59	-49.08	15.74	51.54	162	<i>l23c</i>
<i>g25b</i>	52.97	-39.7	-6.72	40.27	190	<i>l55c</i>
<i>g50b</i>	54.85	-32.33	-24.35	40.48	217	<i>l87c</i>
<i>g75b</i>	49.92	-17.29	-36.02	39.96	244	<i>c20v</i>
<i>b00r</i>	40.91	1.28	-42.35	42.37	272	<i>c53v</i>
<i>b25r</i>	26.81	30.38	-52.26	60.45	300	<i>c87v</i>
<i>b50r</i>	32.52	69.06	-42.14	80.9	329	<i>v68m</i>
<i>b75r</i>	39.48	71.47	-3.69	71.57	357	<i>m34o</i>



%Gamut

$u^*_{rel} = 109$

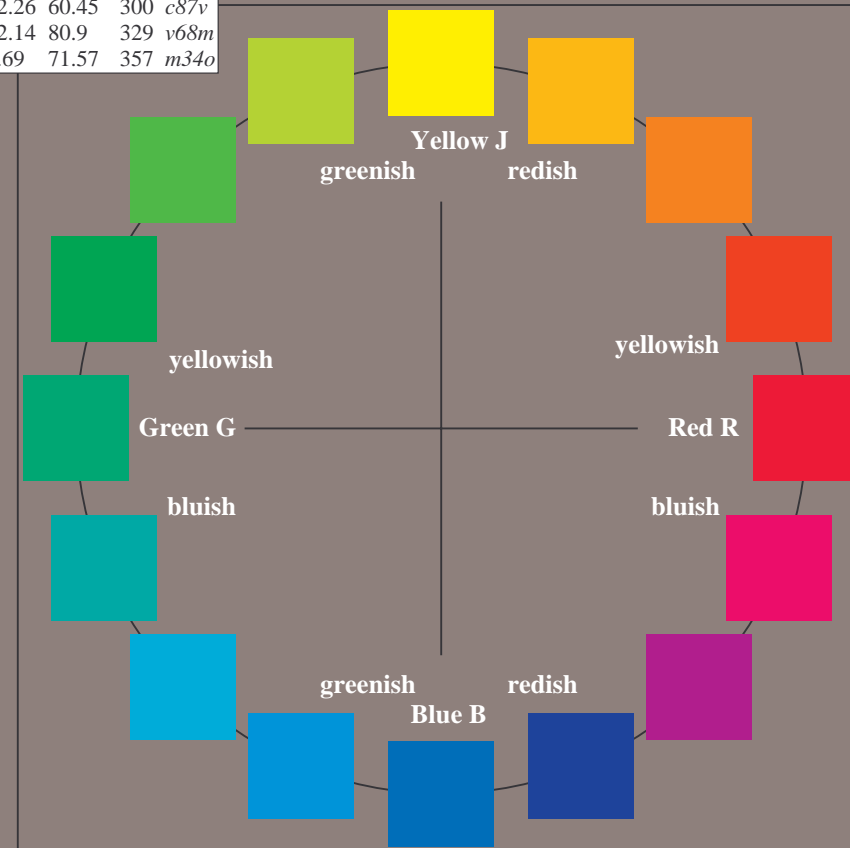
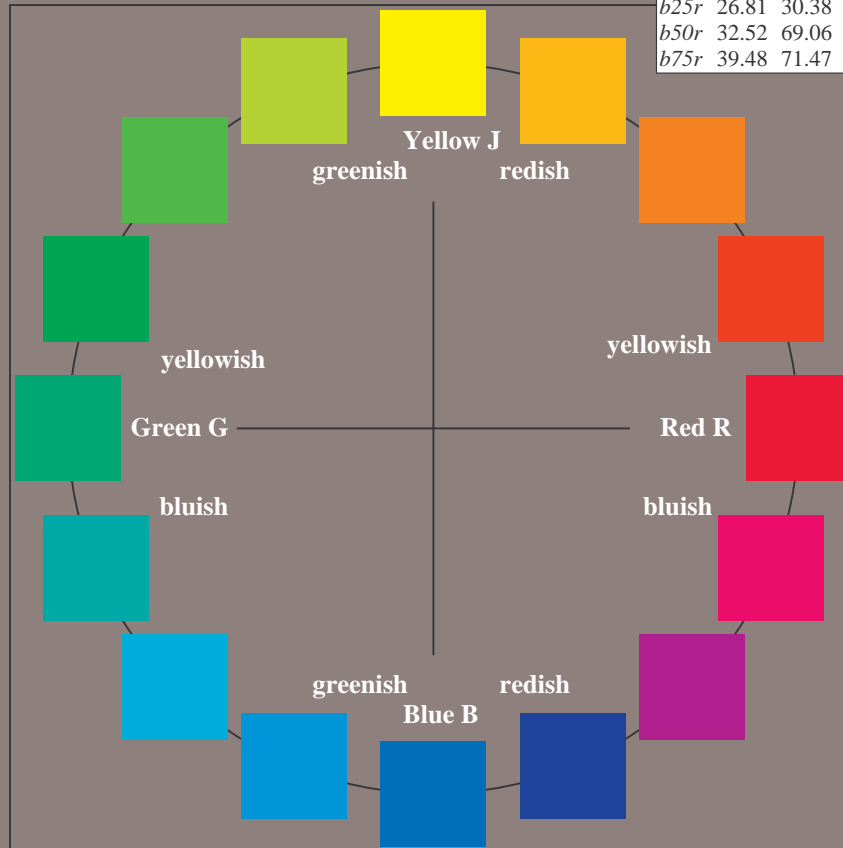
%Regularity

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

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

FRS12\_95a; adapted (a) CIELAB data

Name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$

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

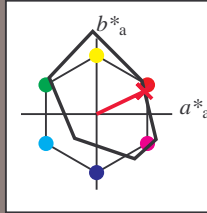
Hue texts:

$u^*_e = r00j$   $u^*_d = m81o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 38 63 30

$LAB^*LCH^*_{Ma}$ : 38 70 25

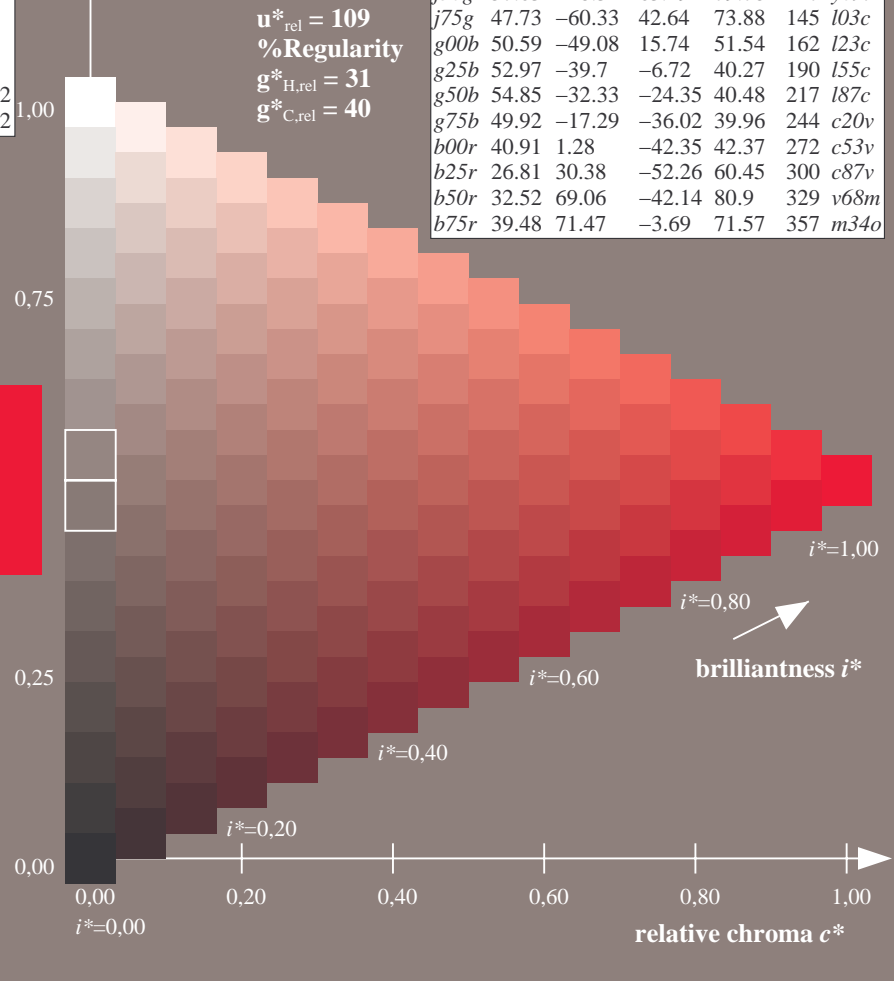
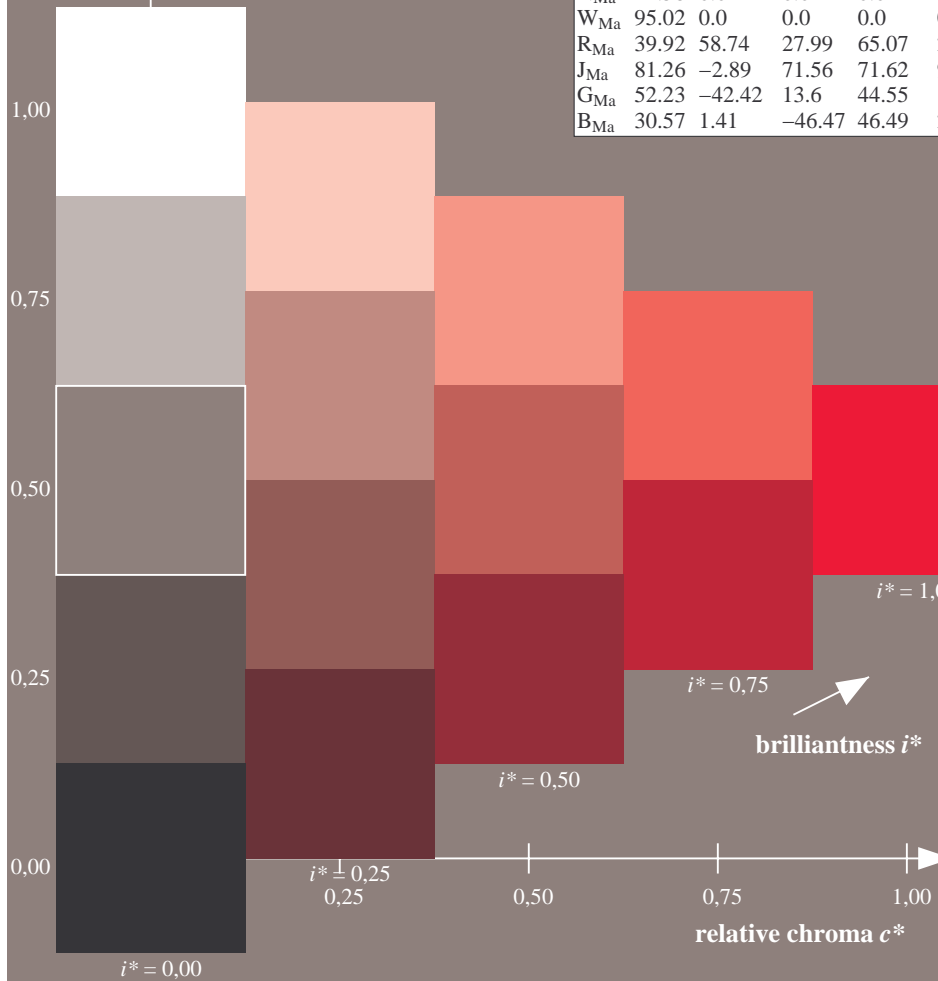
$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$u^*_e = r25j$

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

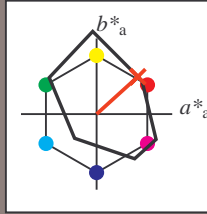
Hue texts:

$u^*_e = r25j$   $u^*_d = o10y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 42 55 49

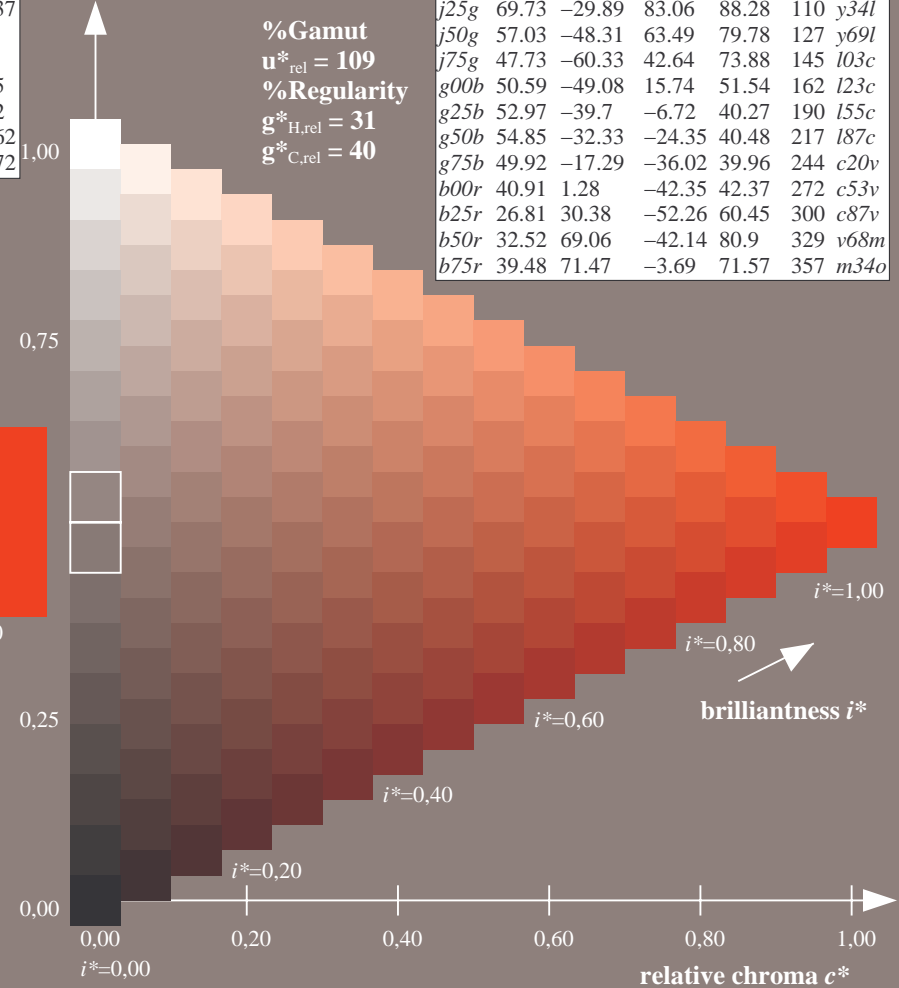
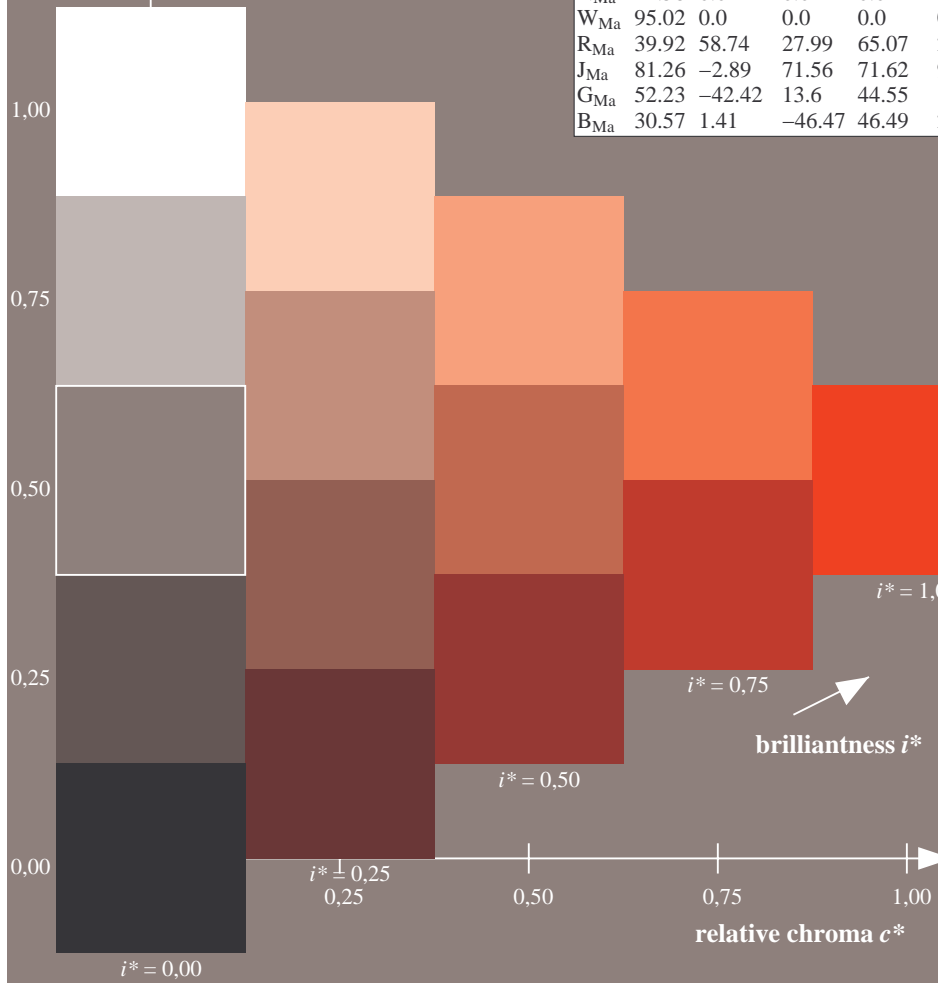
$LAB^*LCH^*_{Ma}$ : 42 74 42

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

$lab^*olv^*_{Ma}$ : 1.0 0.11 0.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$

$u^*_e = r50j$

data for any colour:

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

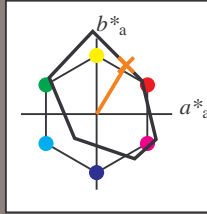
Hue texts:

$u^*_e = r50j$   $u^*_d = o40y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 54 39 65

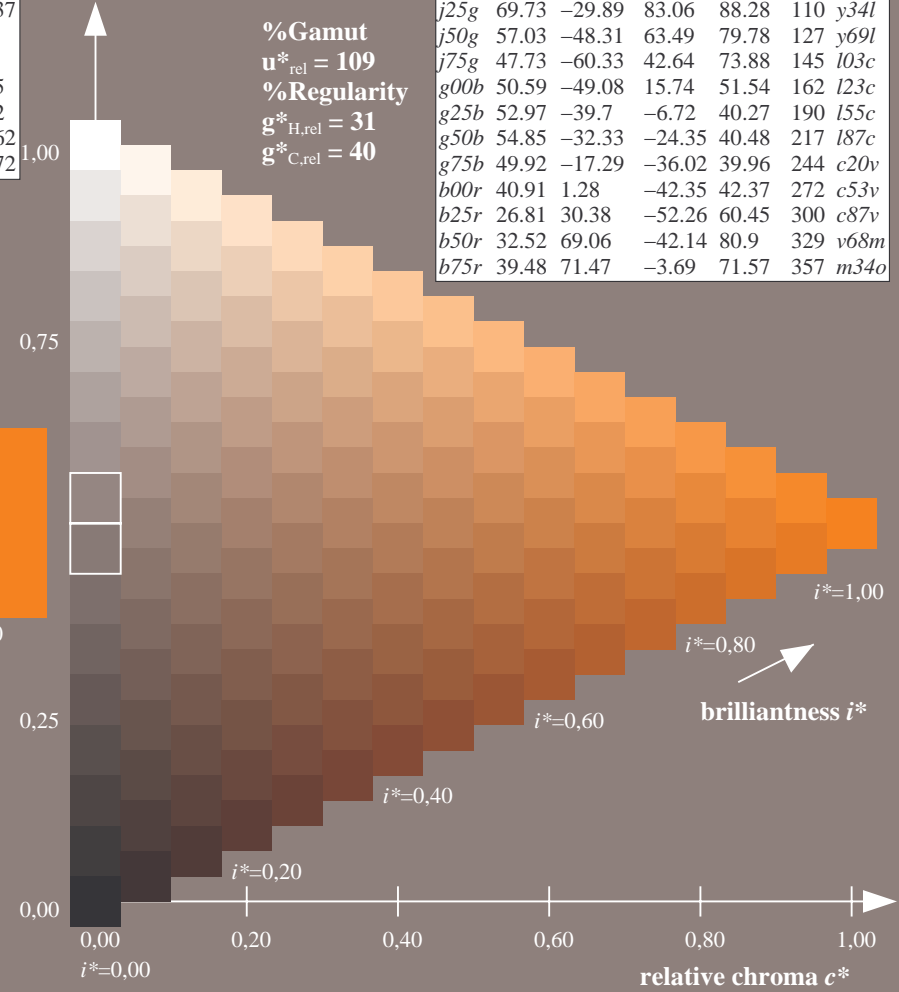
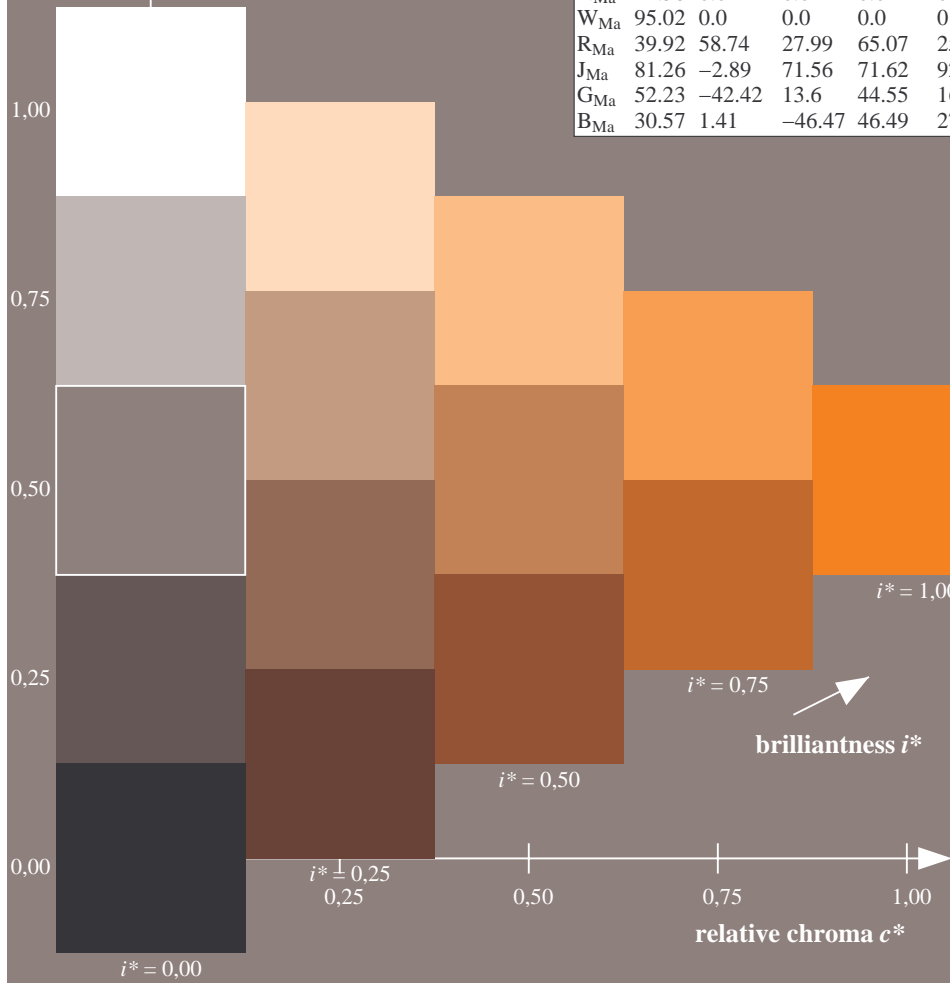
$LAB^*LCH^*_{Ma}$ : 54 76 58

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

$lab^*olv^*_{Ma}$ : 1.0 0.4 0.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$

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

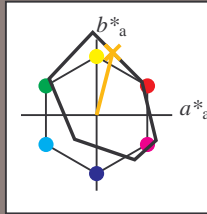
Hue texts:

$u^*_e = r75j$   $u^*_d = o69y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 67 21 83

$LAB^*LCH^*_{Ma}$ : 67 86 75

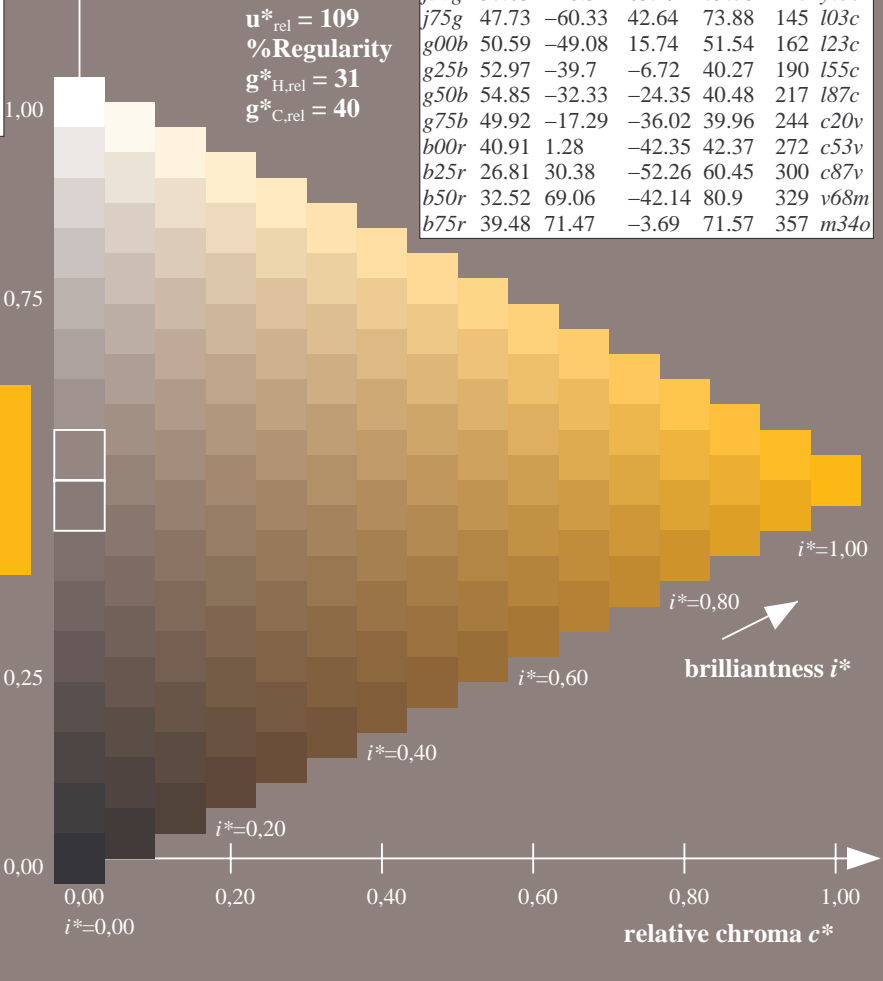
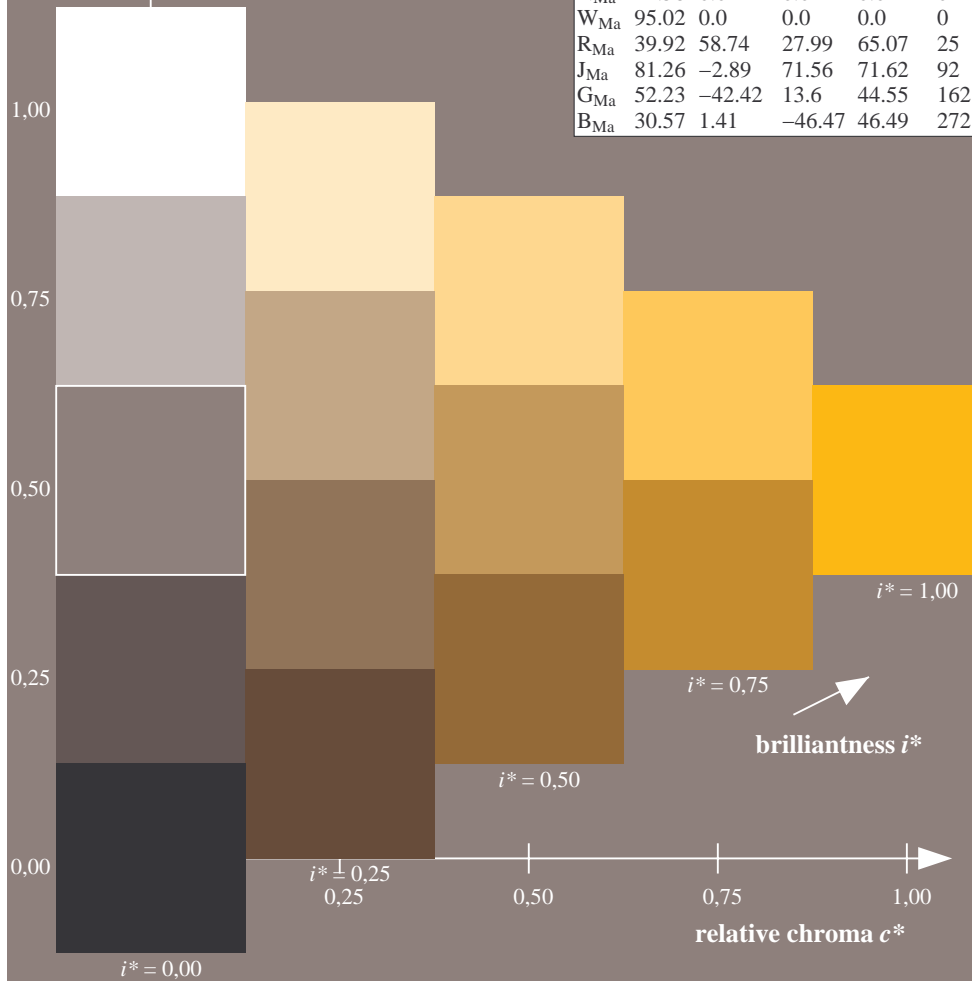
$lab^*rgb^*_{Ma}$ : 1.0 0.75 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.7 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$   
 data for any colour:

$u^*_e = j00g$

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

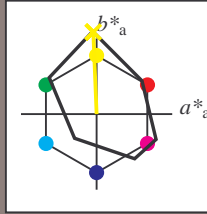
Hue texts:

$u^*_e = j00g$   $u^*_d = o98y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 86 -4 109

$LAB^*LCH^*_{Ma}$ : 86 109 92

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

$lab^*olv^*_{Ma}$ : 1.0 0.99 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

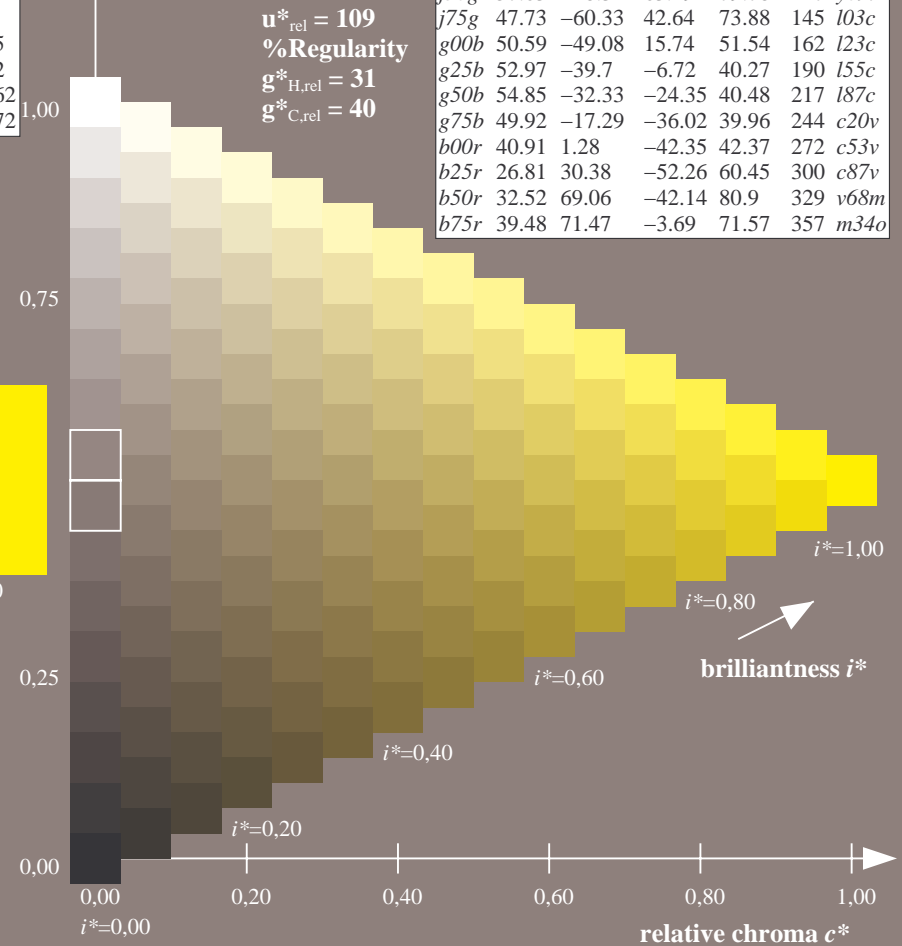
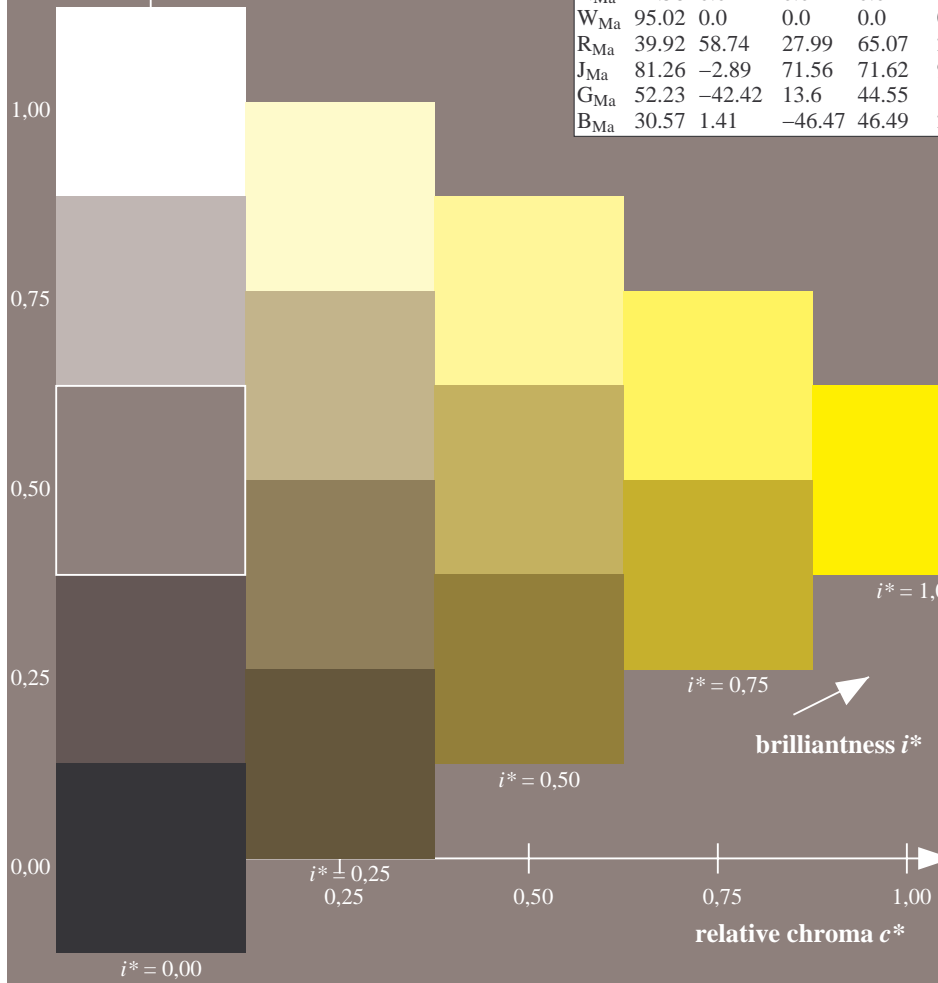
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$

$u^*_e = j25g$

data for any colour:

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

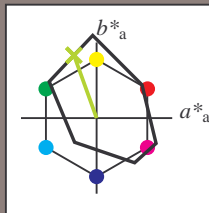
Hue texts:

$u^*_e = j25g$   $u^*_d = y34l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

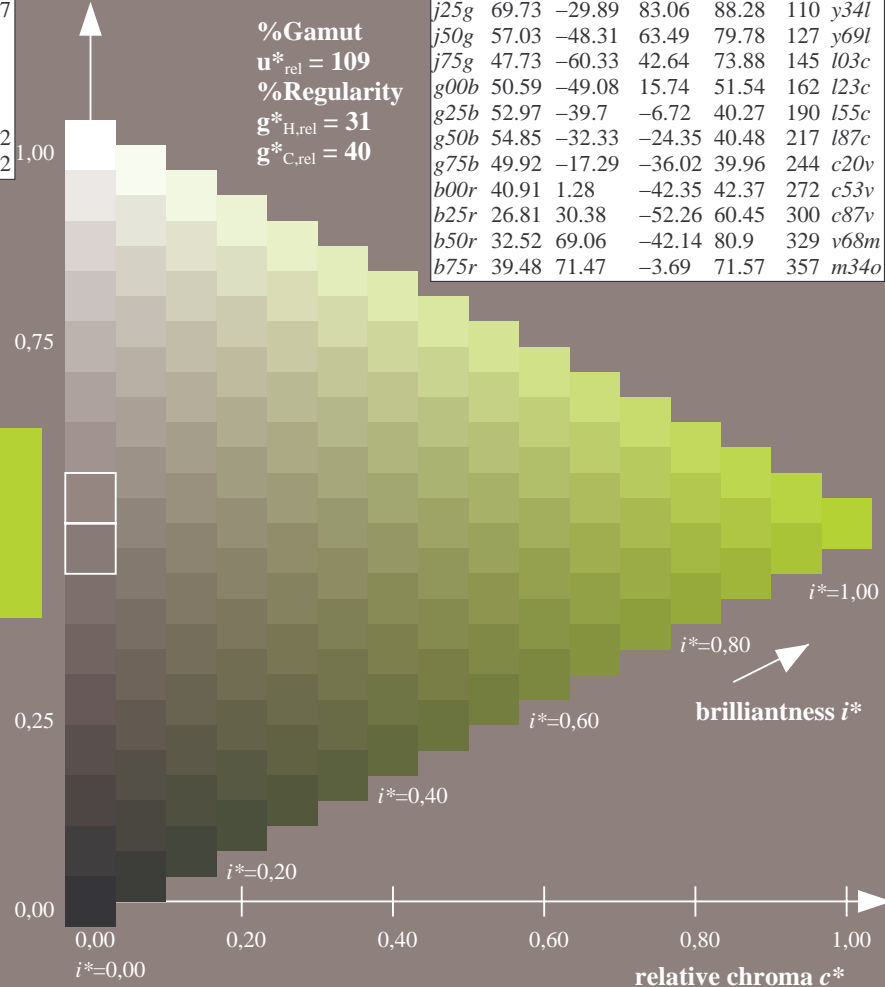
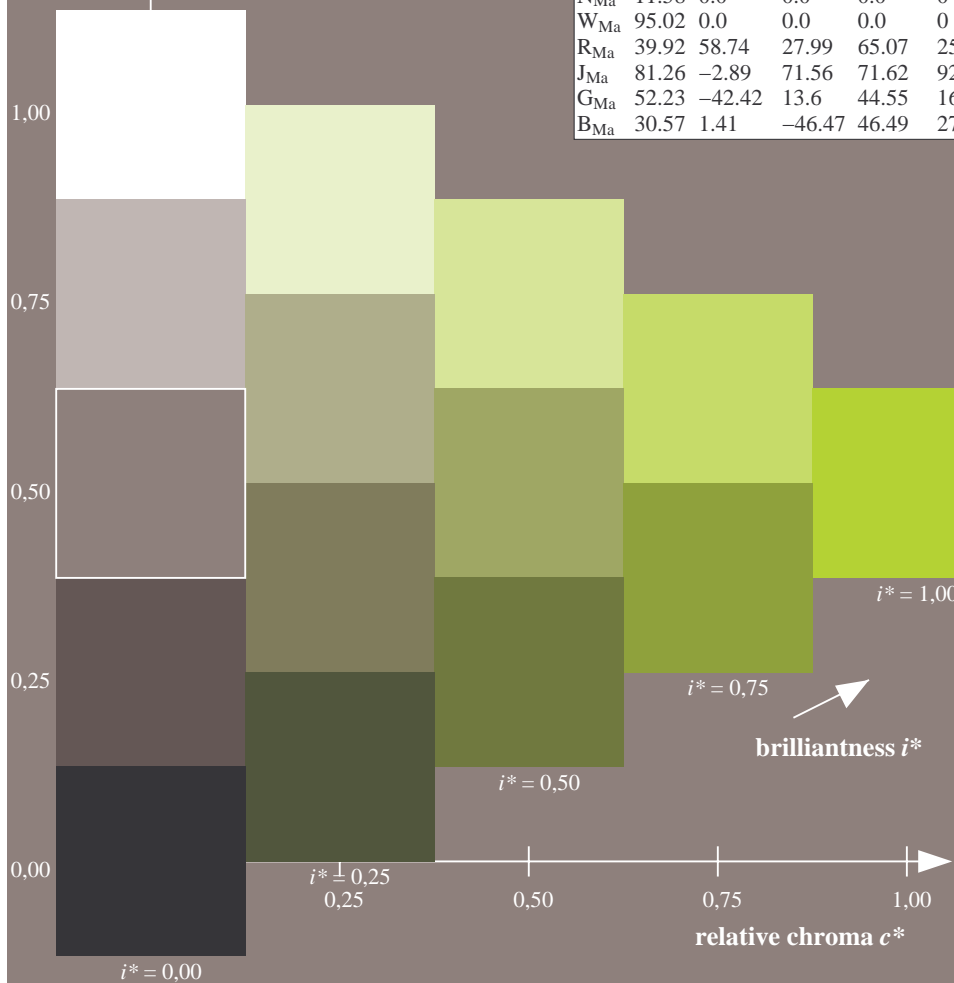
$LAB^*LCH^*_{Ma}: 70 88 109$

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

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

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$   
 data for any colour:

$u^*_e = j50g$

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

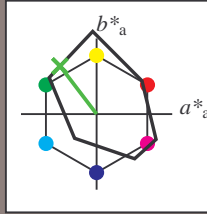
Hue texts:

$u^*_e = j50g$   $u^*_d = y69l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

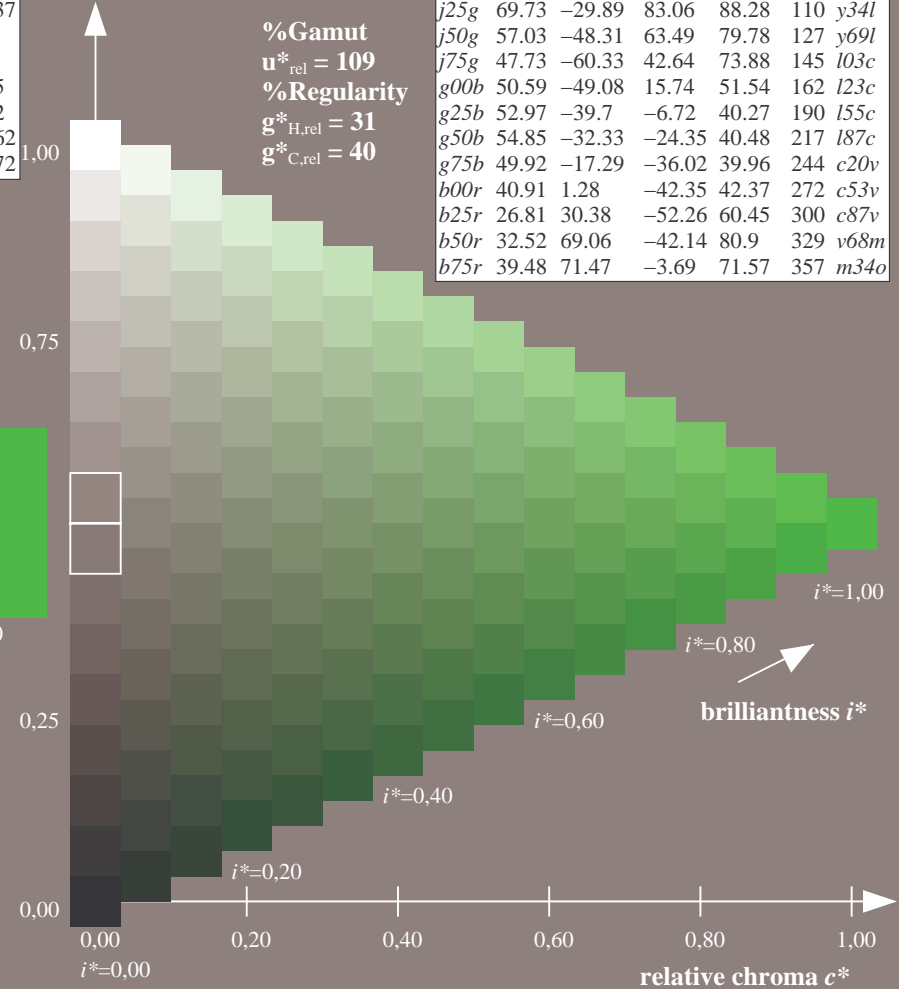
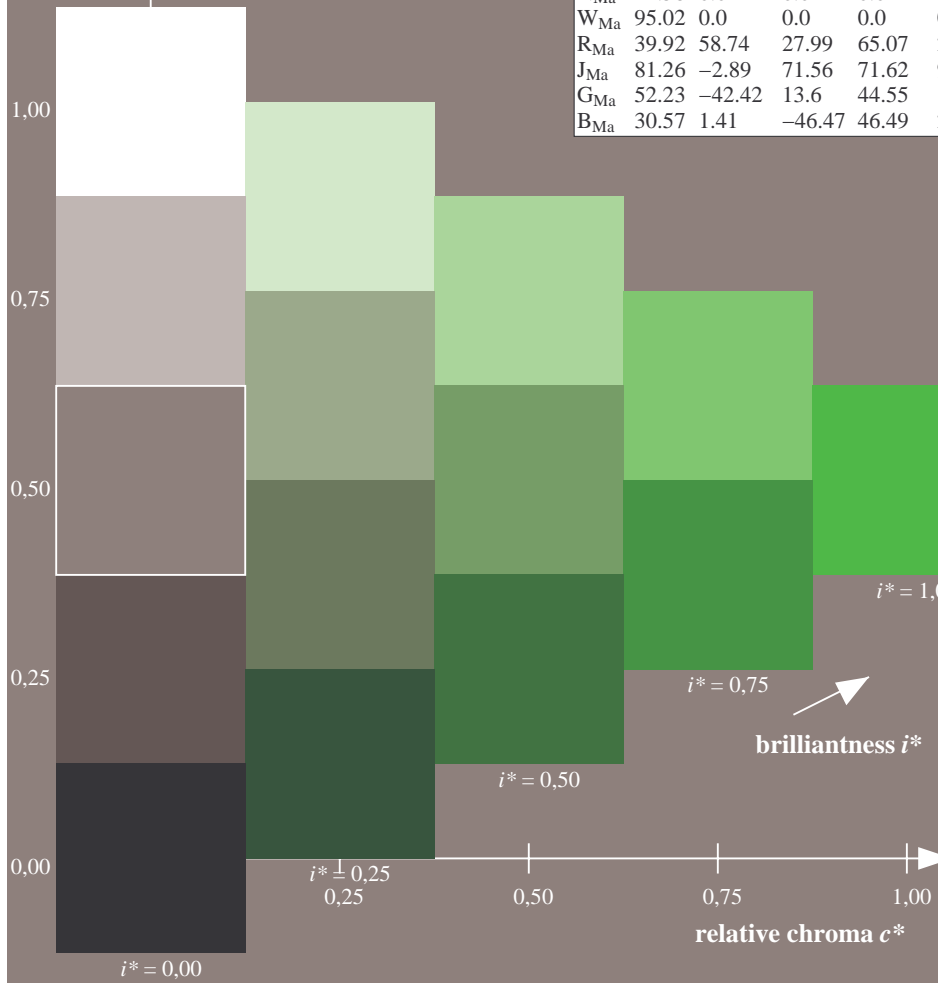
$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

$u^*_e = j75g$

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

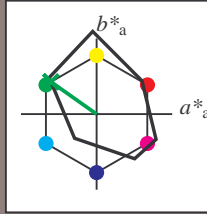
Hue texts:

$u^*_e = j75g$   $u^*_d = l03c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 48 -60 43

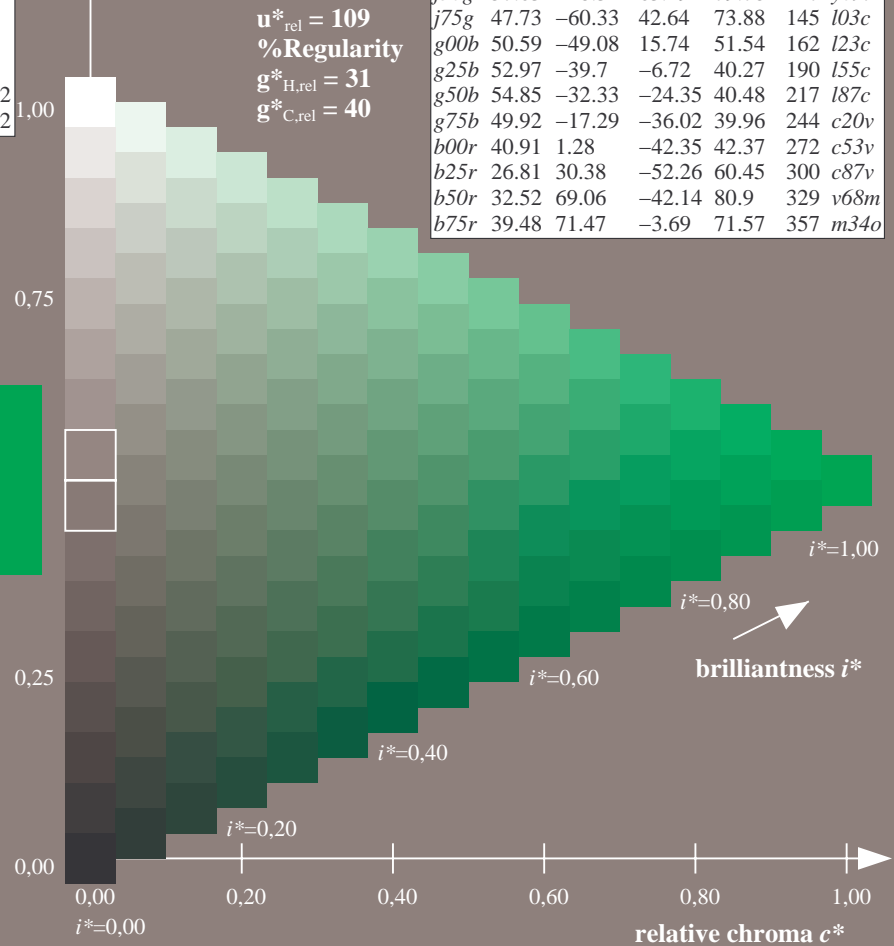
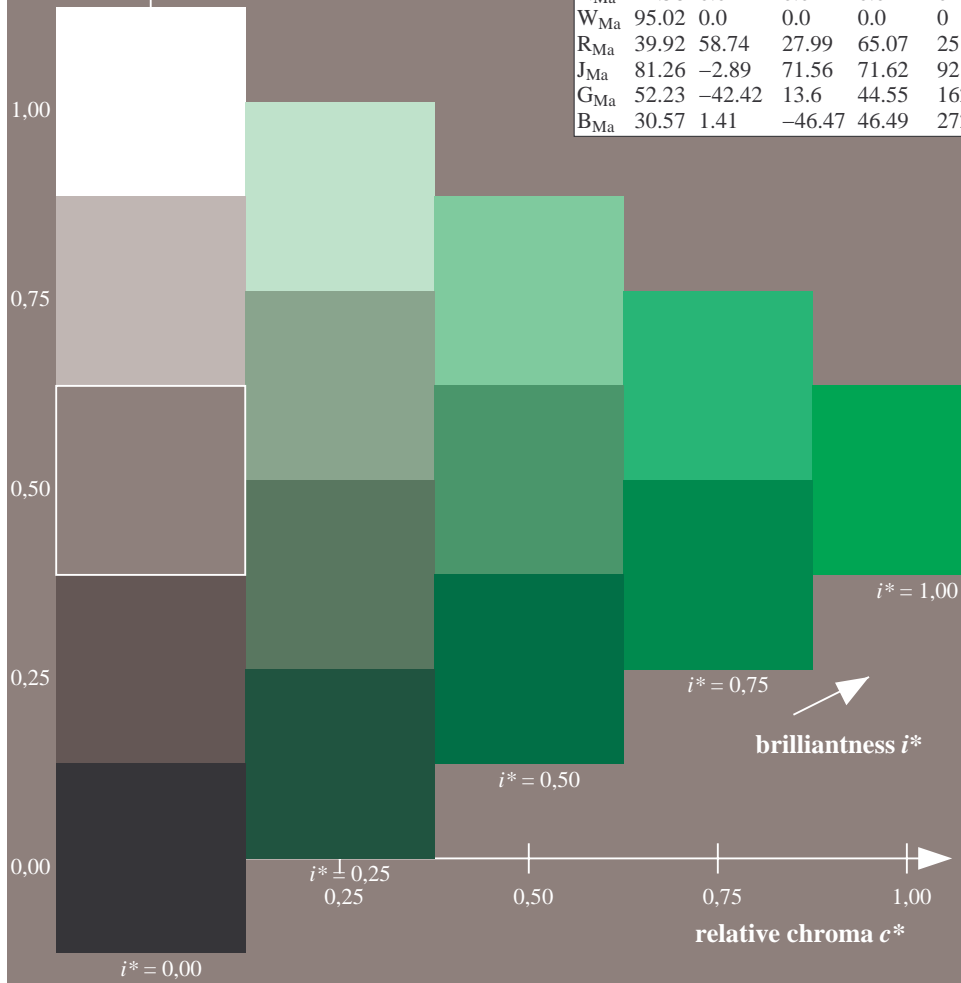
$LAB^*LCH^*_{Ma}$ : 48 74 144

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

$lab^*olv^*_{Ma}$ : 0.0 1.0 0.03

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$

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

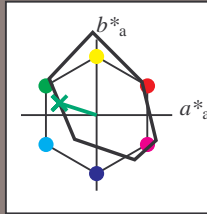
Hue texts:

$u^*_e = g00b$   $u^*_d = l23c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 51 -49 16$

$LAB^*LCH^*_{Ma}: 51 52 162$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

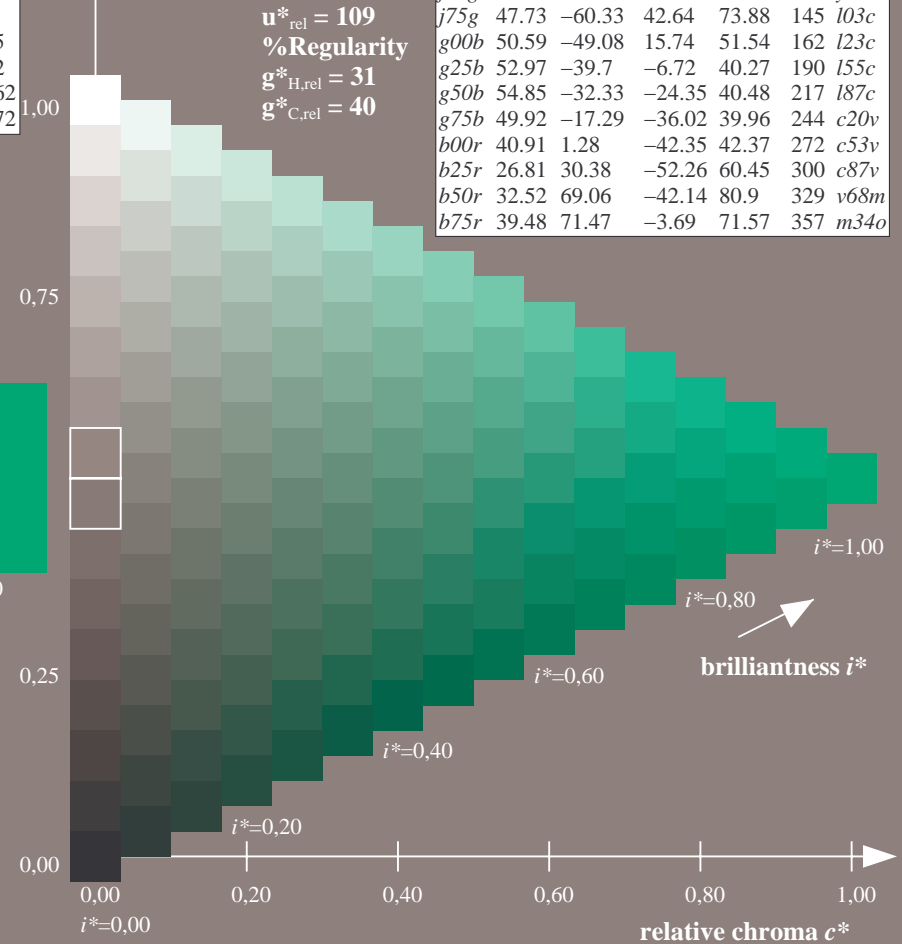
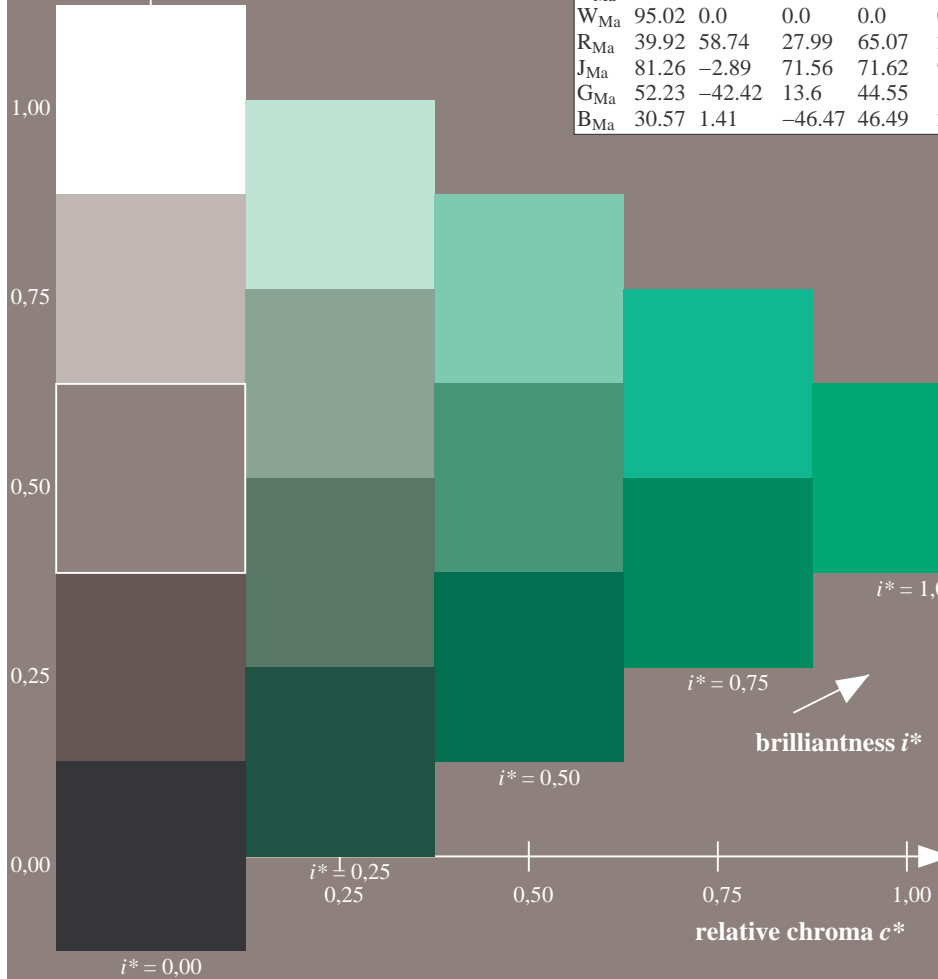
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$

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

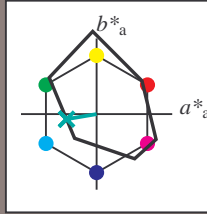
Hue texts:

$u^*_e = g25b$   $u^*_d = l55c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
$O_{Ma}$	38.06	60.0	44.0	74.4	36	
$Y_{Ma}$	86.77	-5.17	109.32	109.44	93	
$L_{Ma}$	47.13	-62.67	48.24	79.09	142	
$C_{Ma}$	55.66	-29.14	-31.99	43.27	228	
$V_{Ma}$	17.15	50.3	-59.04	77.57	310	
$M_{Ma}$	40.37	78.64	-33.5	85.48	337	
$N_{Ma}$	11.58	0.0	0.0	0.0	0	
$W_{Ma}$	95.02	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 ( $Ma$ ):

$LAB^*LAB^*_{Ma}$ : 53 -40 -7

$LAB^*LCH^*_{Ma}$ : 53 40 189

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$
$j75g$	47.73	-60.33	42.64	73.88	145	$l03c$
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$

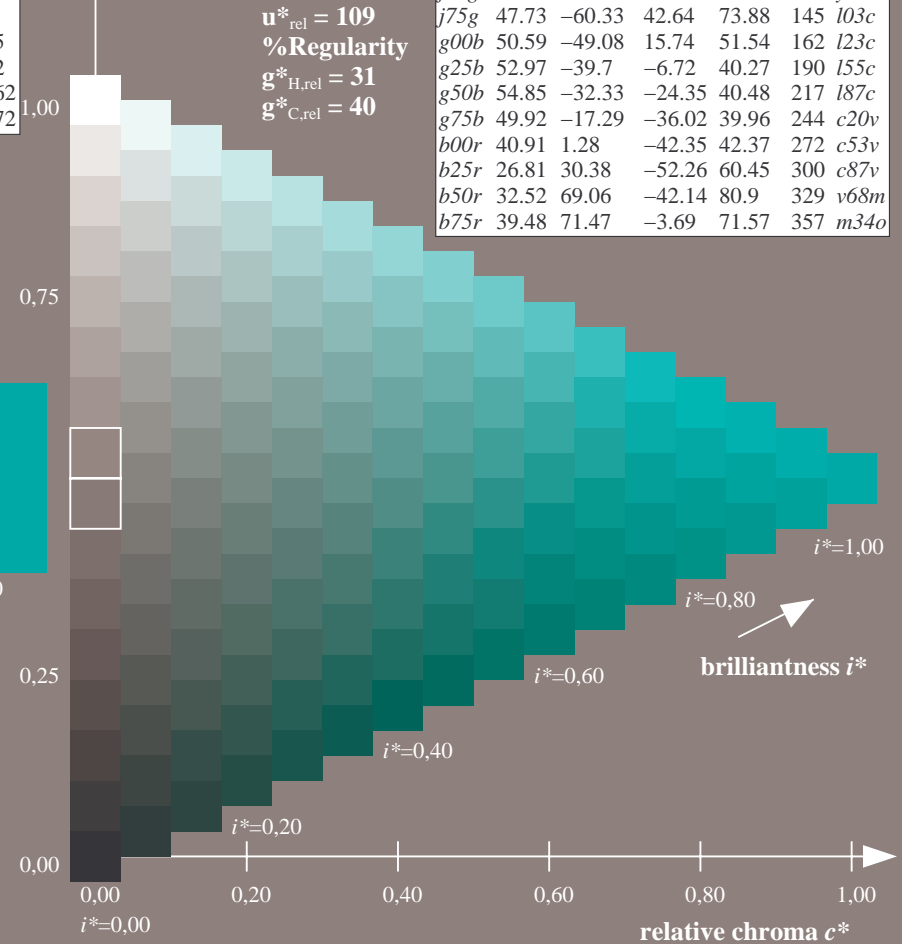
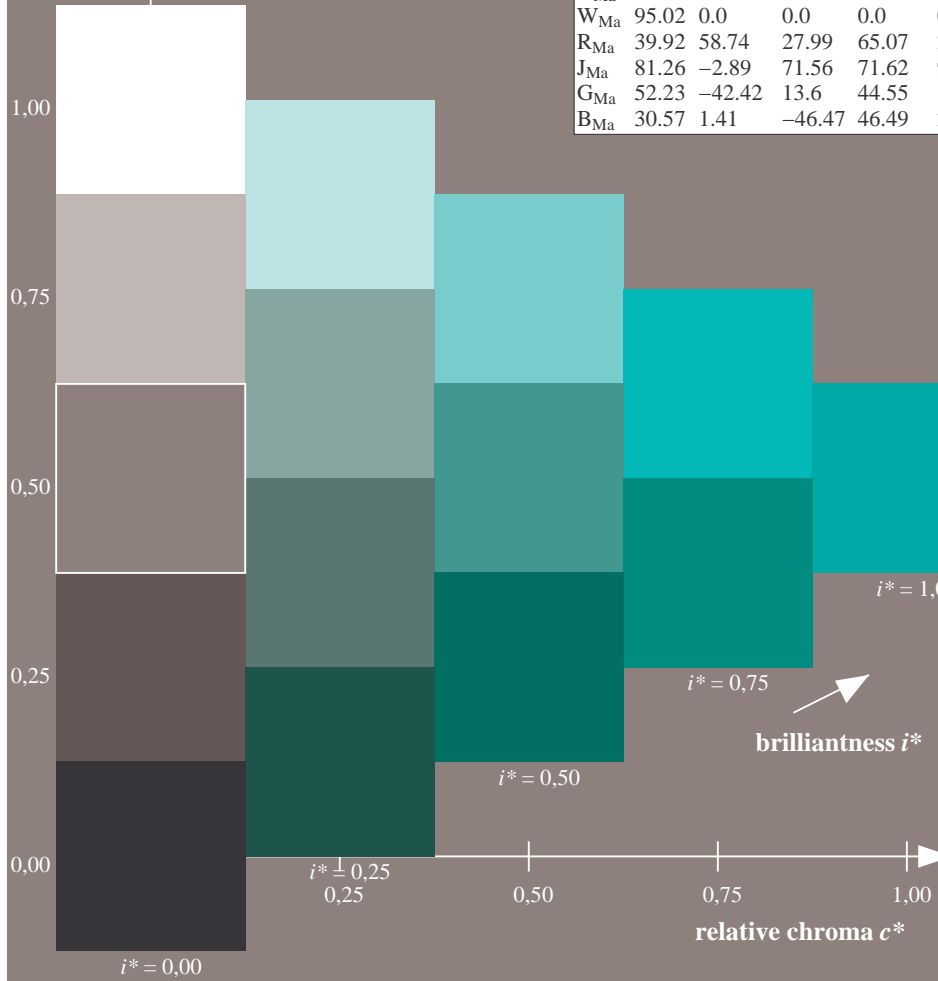
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$

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

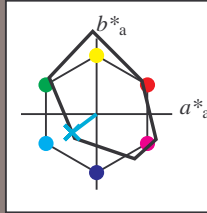
Hue texts:

$u^*_e = g50b$   $u^*_d = l87c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

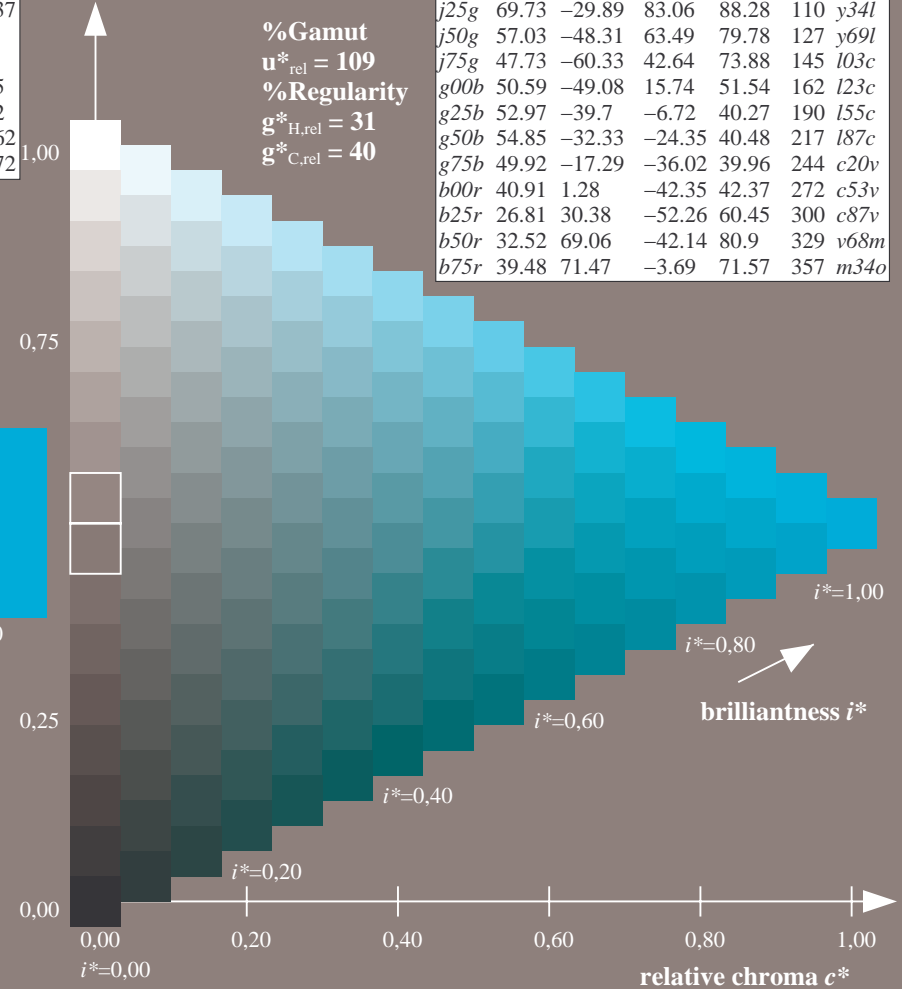
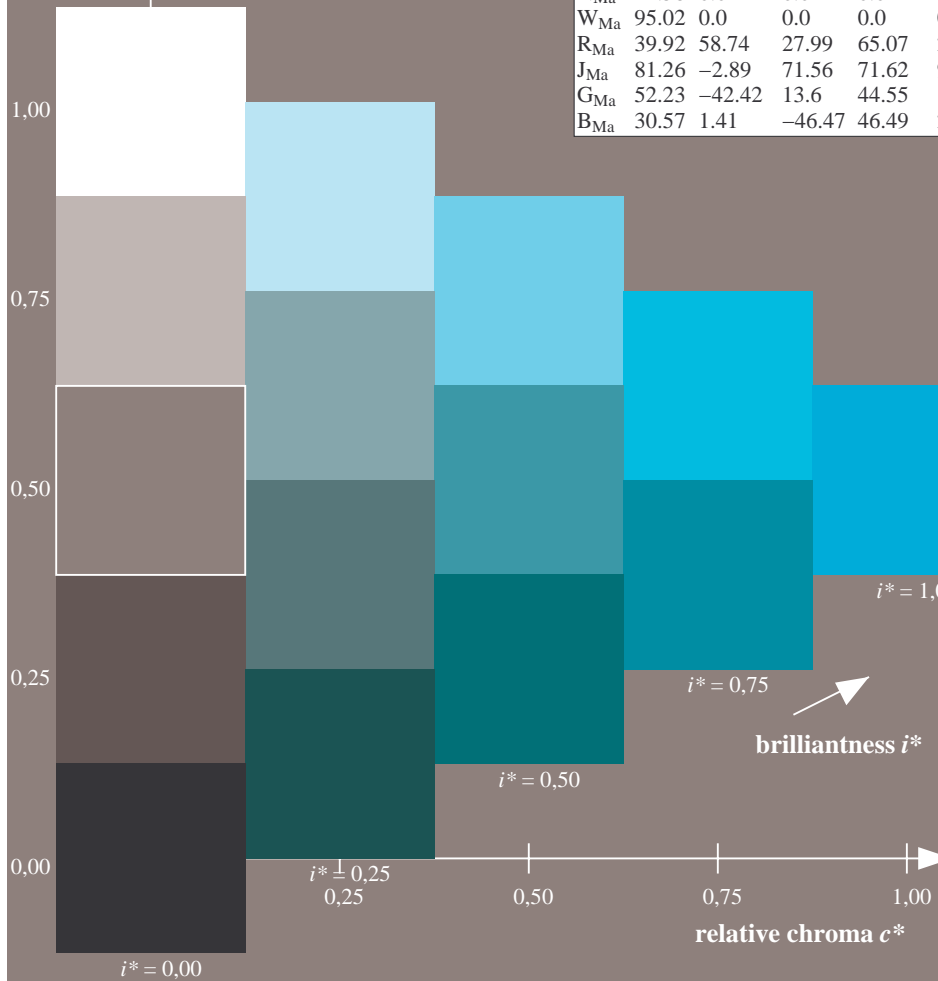
$lab^*rgb^*_{Ma}: 0.0 1.0 1.0$

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$

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

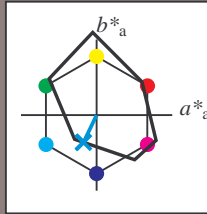
Hue texts:

$u^*_e = g75b$   $u^*_d = c20v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 50 -17 -36

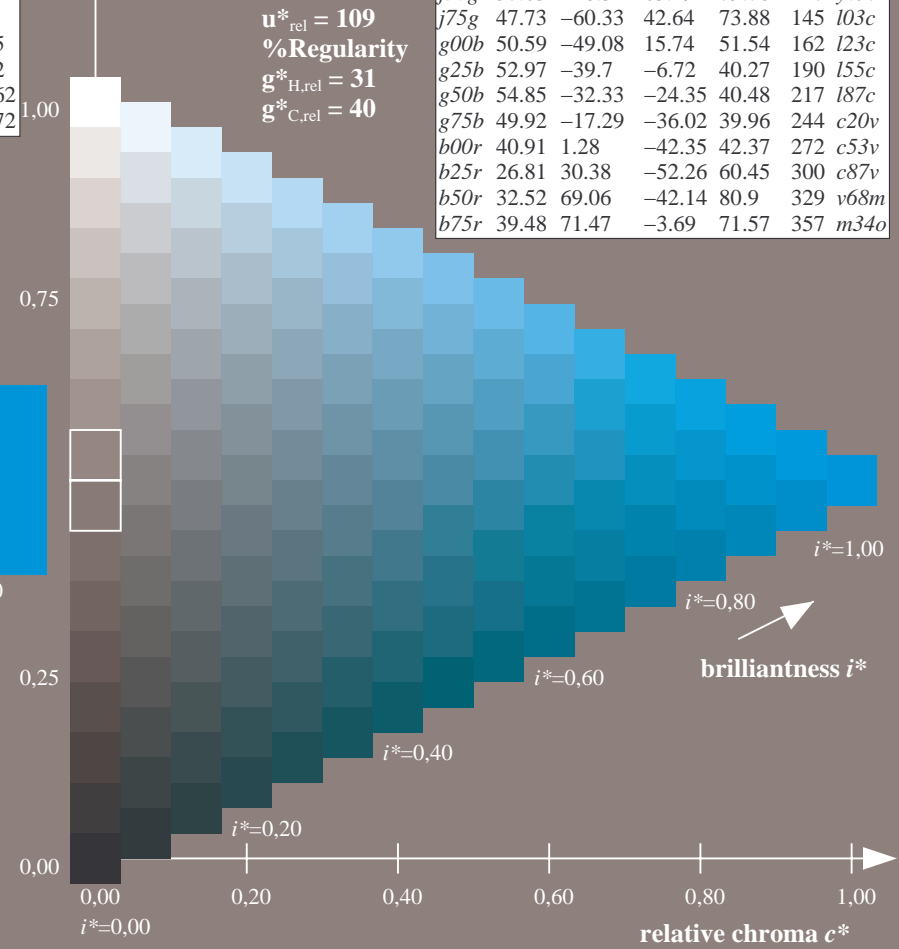
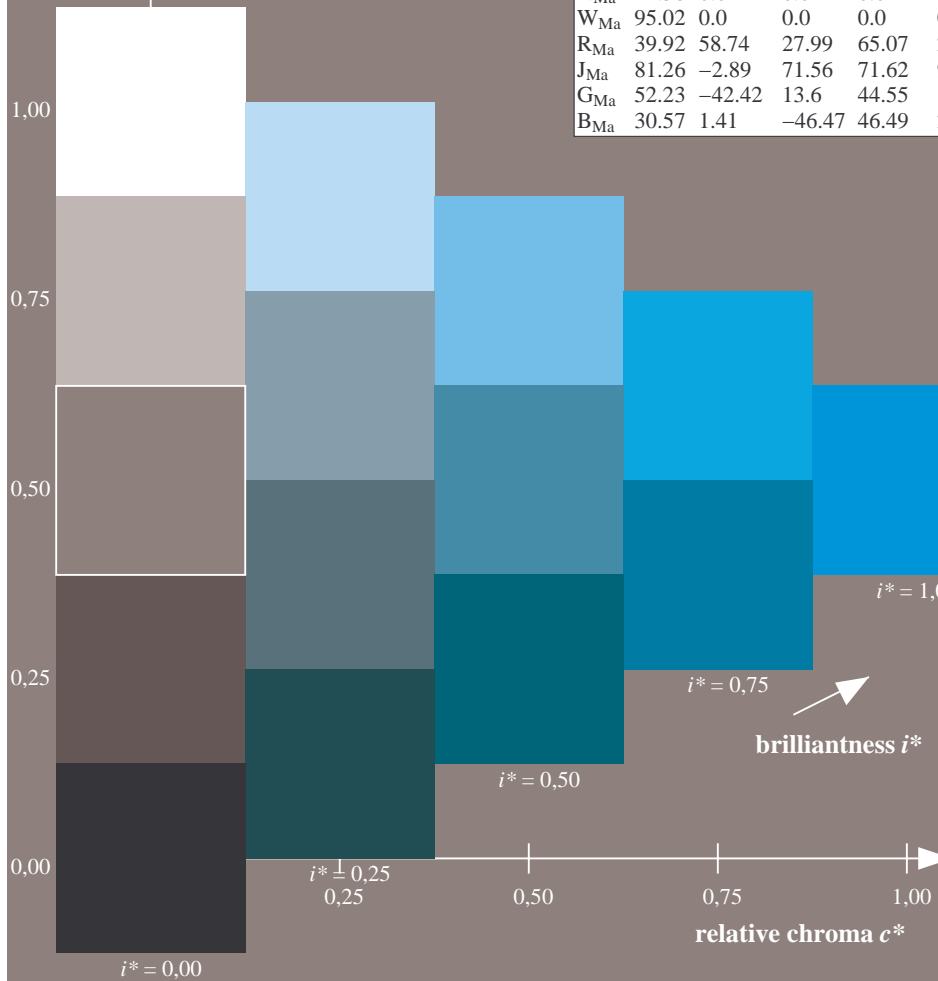
$LAB^*LCH^*_{Ma}$ : 50 40 244

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

$lab^*olv^*_{Ma}$ : 0.0 0.8 1.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$   
 data for any colour:

$u^*_e = b00r$

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

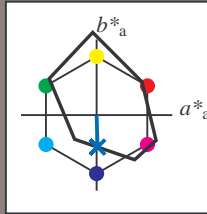
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 41 1 -42

$LAB^*LCH^*_{Ma}$ : 41 42 271

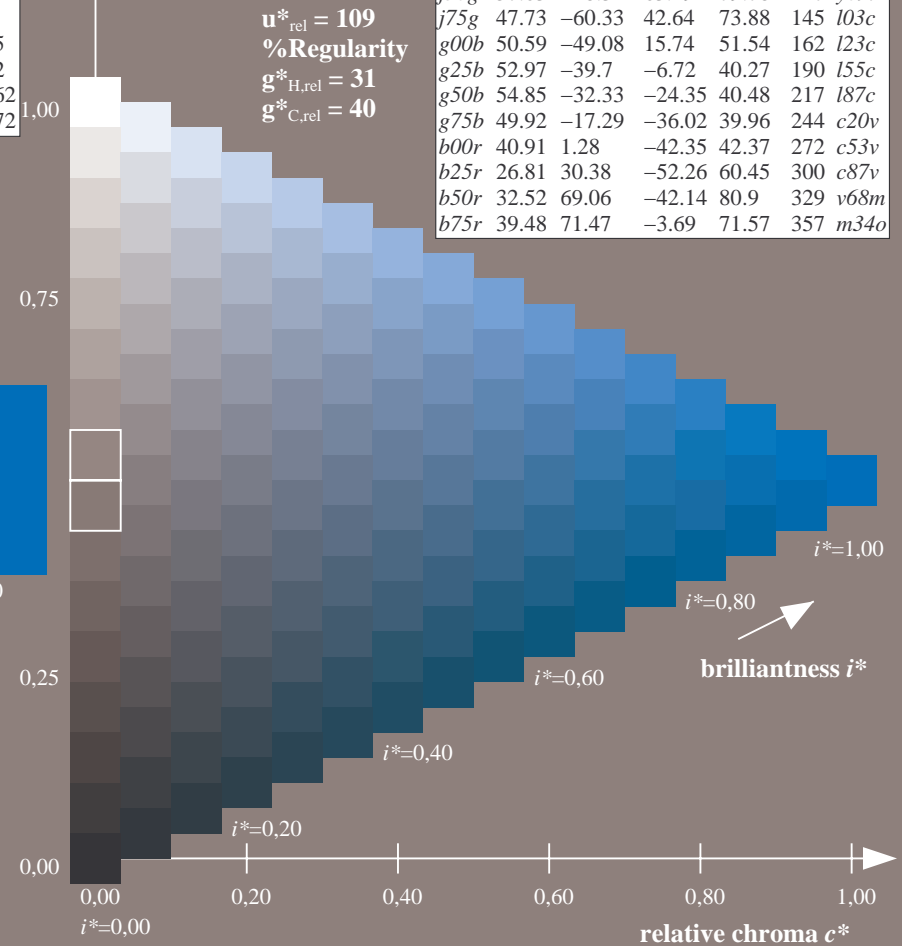
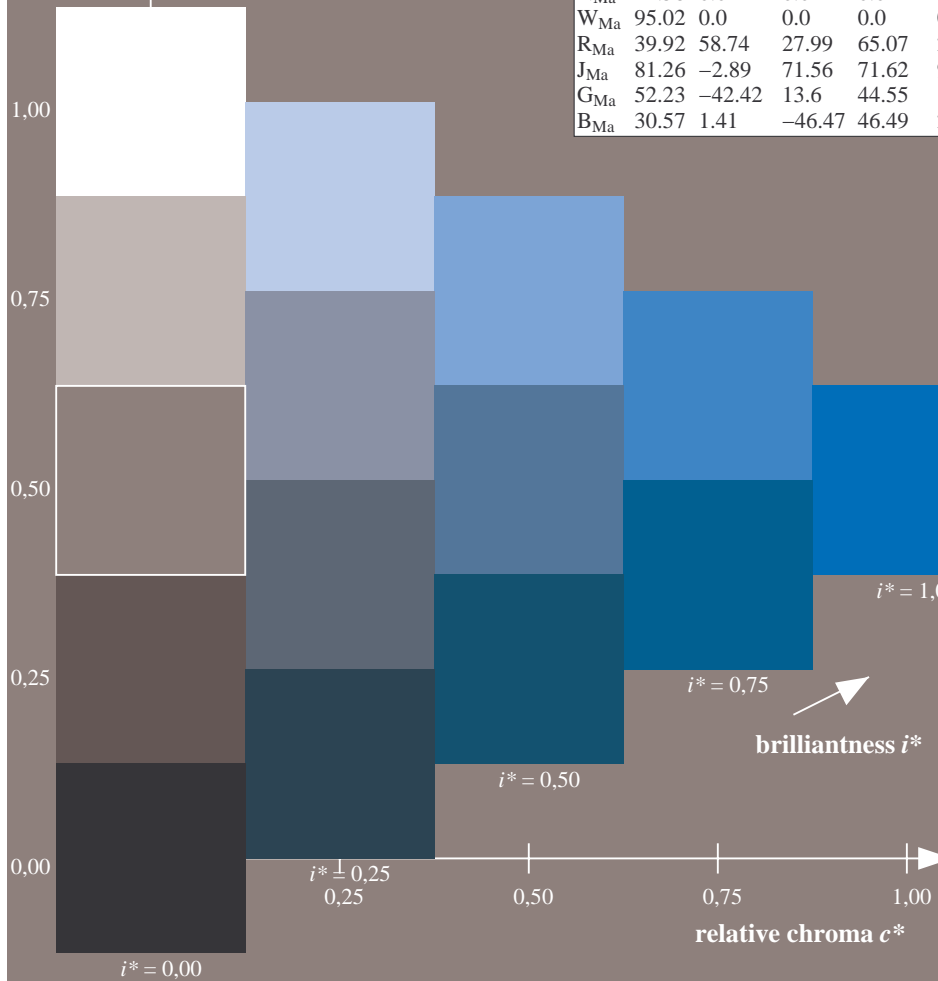
$lab^*rgb^*_{Ma}$ : 0.0 0.0 1.0

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$   
 data for any colour:

$u^*_e = b25r$

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

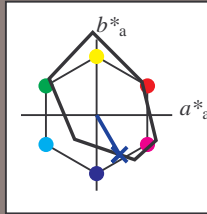
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
$O_{Ma}$	38.06	60.0	44.0	74.4	36	
$Y_{Ma}$	86.77	-5.17	109.32	109.44	93	
$L_{Ma}$	47.13	-62.67	48.24	79.09	142	
$C_{Ma}$	55.66	-29.14	-31.99	43.27	228	
$V_{Ma}$	17.15	50.3	-59.04	77.57	310	
$M_{Ma}$	40.37	78.64	-33.5	85.48	337	
$N_{Ma}$	11.58	0.0	0.0	0.0	0	
$W_{Ma}$	95.02	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 ( $Ma$ ):

$LAB^*LAB^*_{Ma}: 27\ 30\ -52$

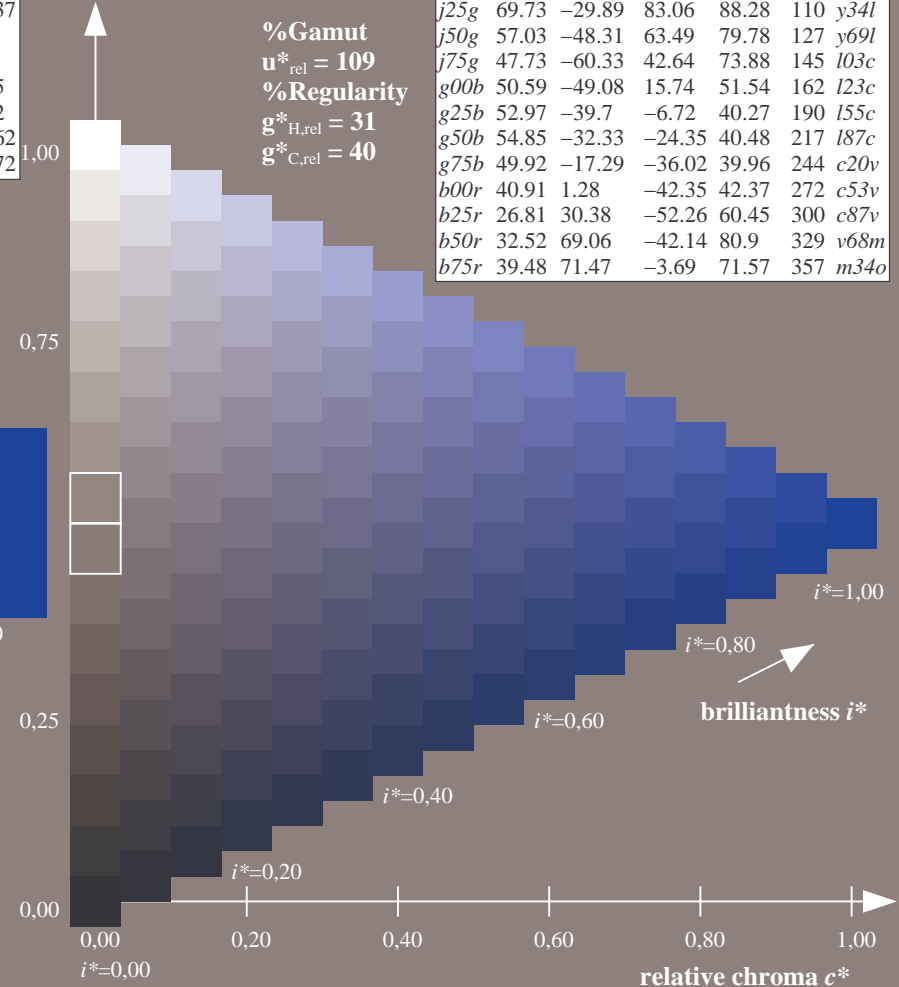
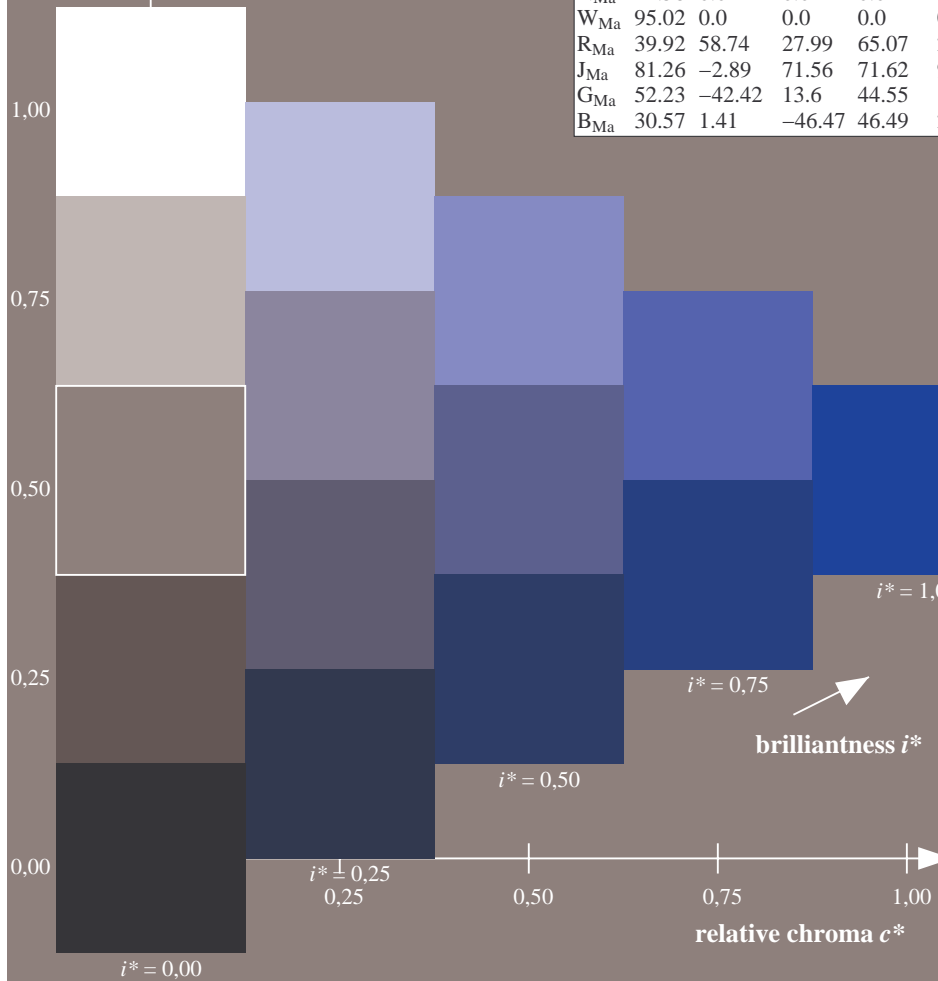
$LAB^*LCH^*_{Ma}: 27\ 60\ 300$

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

$lab^*olv^*_{Ma}: 0.0\ 0.12\ 1.0$

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$	
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$	
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$	
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$	
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$	
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$	
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$	
$j75g$	47.73	-60.33	42.64	73.88	145	$l03c$	
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$	
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$	
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$	
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$	
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$	
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$	
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$	
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$   
 data for any colour:

$u^*_e = b50r$

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

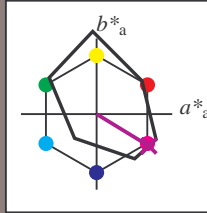
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
$O_{Ma}$	38.06	60.0	44.0	74.4	36	
$Y_{Ma}$	86.77	-5.17	109.32	109.44	93	
$L_{Ma}$	47.13	-62.67	48.24	79.09	142	
$C_{Ma}$	55.66	-29.14	-31.99	43.27	228	
$V_{Ma}$	17.15	50.3	-59.04	77.57	310	
$M_{Ma}$	40.37	78.64	-33.5	85.48	337	
$N_{Ma}$	11.58	0.0	0.0	0.0	0	
$W_{Ma}$	95.02	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 ( $Ma$ ):

$LAB^*LAB^*_{Ma}$ : 33 69 -42

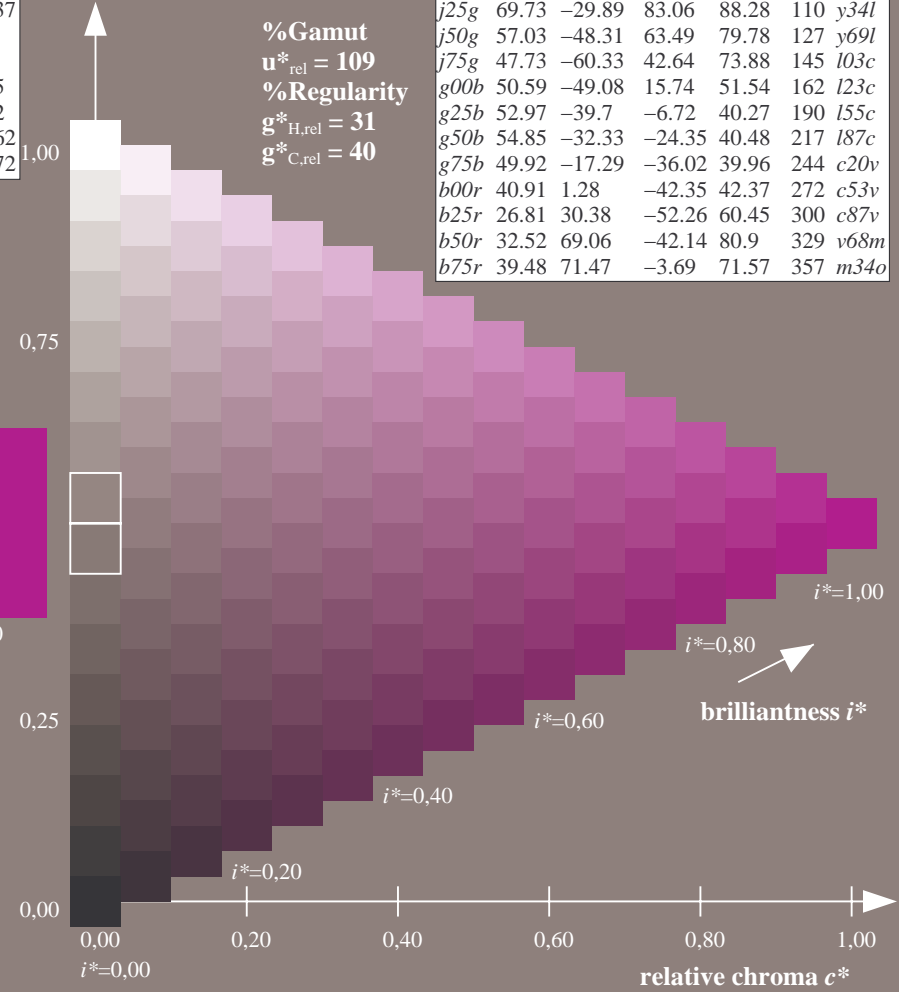
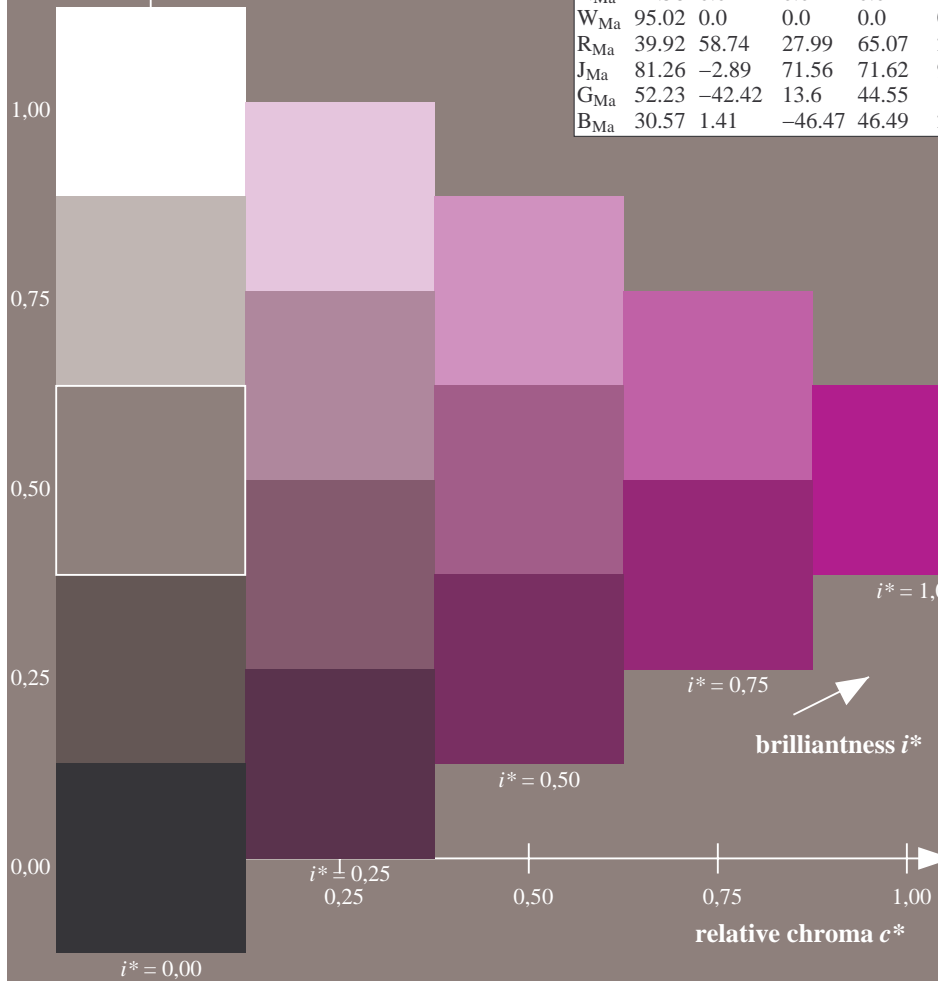
$LAB^*LCH^*_{Ma}$ : 33 81 328

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

$lab^*olv^*_{Ma}$ : 0.69 0.0 1.0

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$	
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$	
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$	
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$	
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$	
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$	
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$	
$j75g$	47.73	-60.33	42.64	73.88	145	$l03c$	
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$	
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$	
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$	
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$	
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$	
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$	
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$	
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$

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

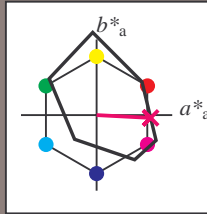
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 39 71 -4

$LAB^*LCH^*_{Ma}$ : 39 72 357

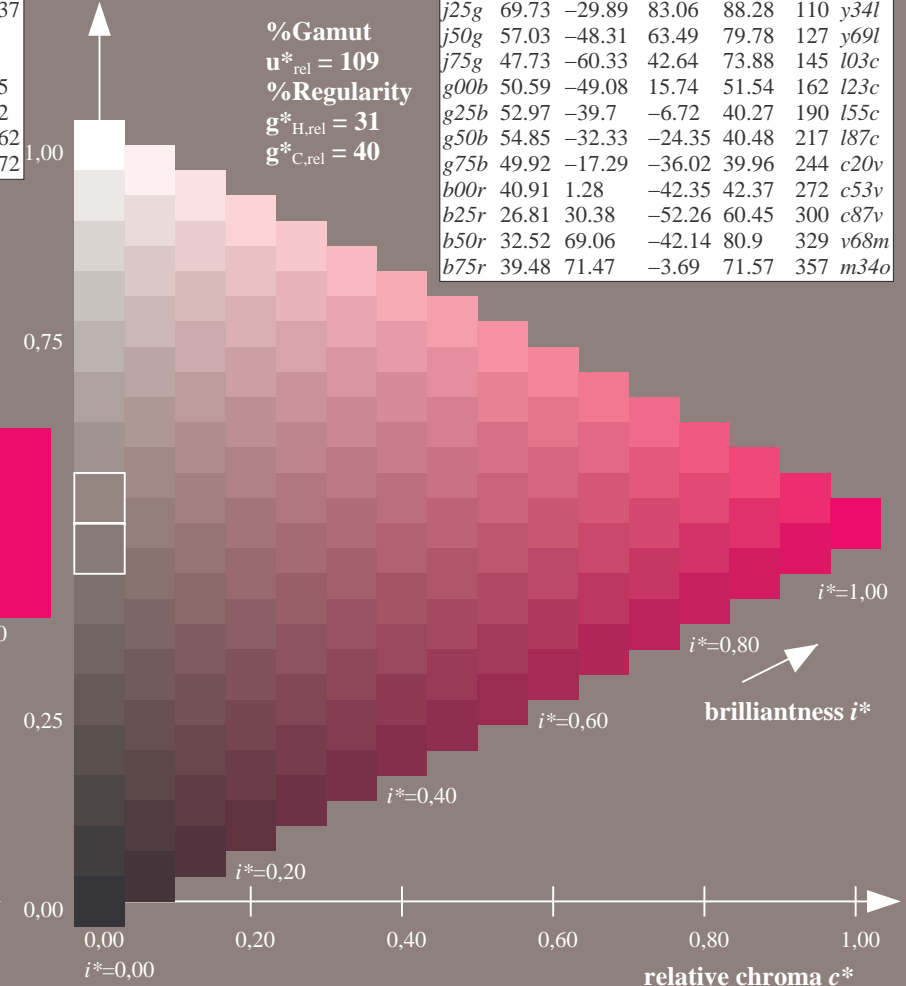
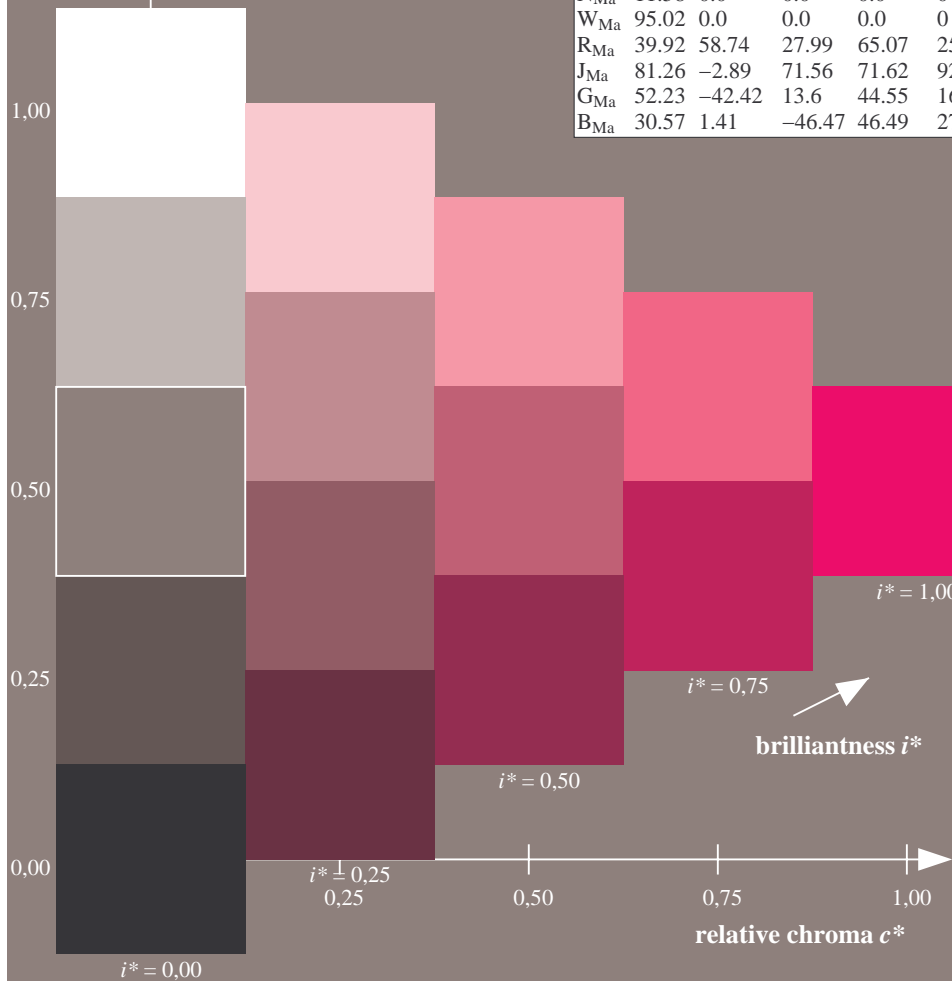
$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.5

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut

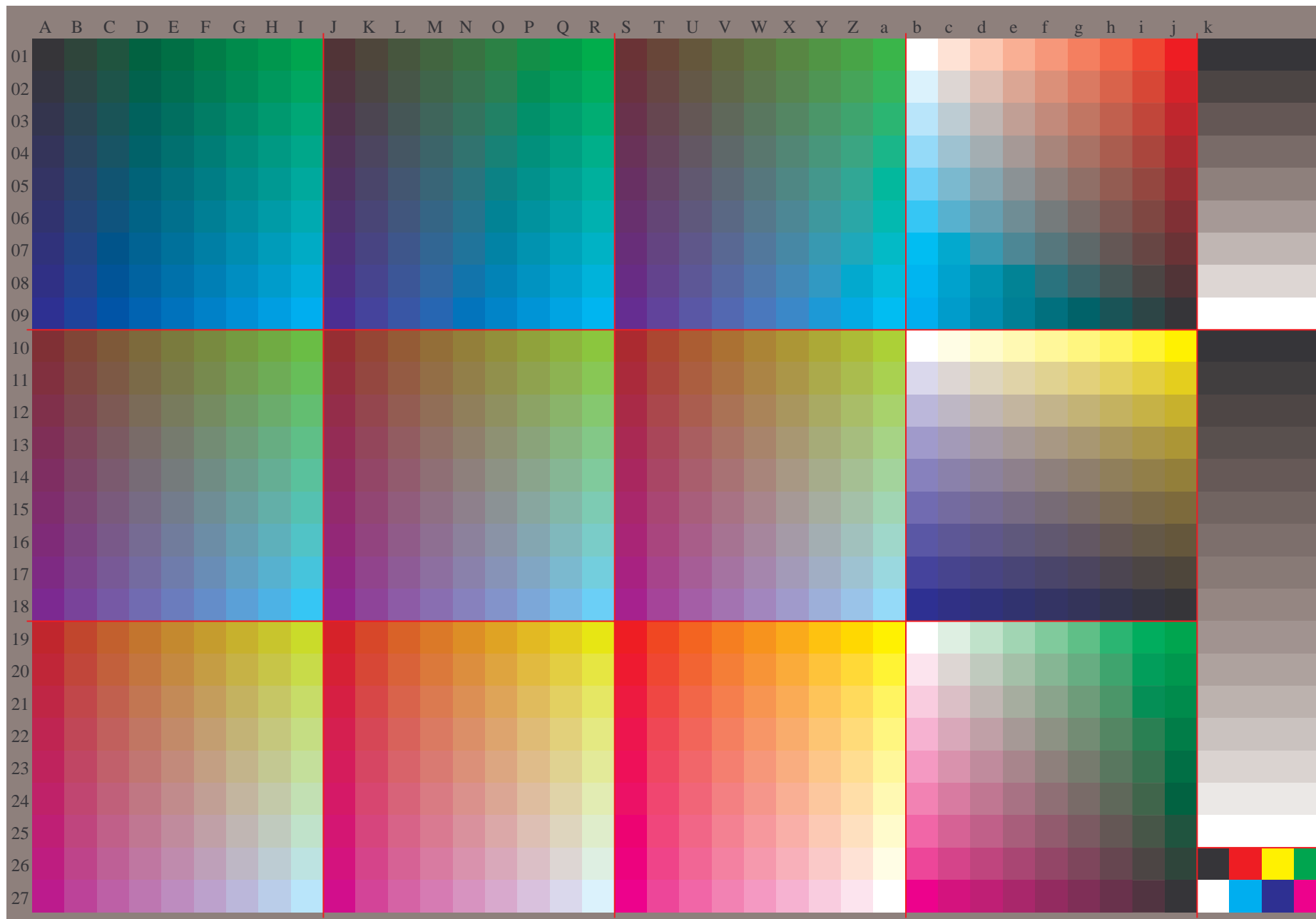
$u^*_{rel} = 109$

%Regularity

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

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

brilliantness  $i^*$





Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15

elementary hue text:

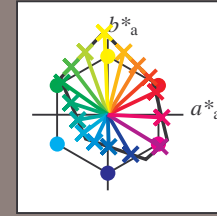
$u^*_e = 16$  hues *r00j, r25j, ..., b75r*

contrast reduction factor:

$c_R = 1.0$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
<i>r00j</i>	38.47	63.32	30.17	70.15	25	<i>m81o</i>
<i>r25j</i>	42.12	54.56	49.45	73.64	42	<i>o10y</i>
<i>r50j</i>	53.64	39.15	64.89	75.79	59	<i>o40y</i>
<i>r75j</i>	67.01	21.26	82.83	85.52	76	<i>o69y</i>
<i>j00g</i>	86.18	-4.38	108.53	108.62	92	<i>o98y</i>
<i>j25g</i>	69.73	-29.89	83.06	88.28	110	<i>y34l</i>
<i>j50g</i>	57.03	-48.31	63.49	79.78	127	<i>y69l</i>
<i>j75g</i>	47.73	-60.33	42.64	73.88	145	<i>l03c</i>
<i>g00b</i>	50.59	-49.08	15.74	51.54	162	<i>l23c</i>
<i>g25b</i>	52.97	-39.7	-6.72	40.27	190	<i>l55c</i>
<i>g50b</i>	54.85	-32.33	-24.35	40.48	217	<i>l87c</i>
<i>g75b</i>	49.92	-17.29	-36.02	39.96	244	<i>c20v</i>
<i>b00r</i>	40.91	1.28	-42.35	42.37	272	<i>c53v</i>
<i>b25r</i>	26.81	30.38	-52.26	60.45	300	<i>c87v</i>
<i>b50r</i>	32.52	69.06	-42.14	80.9	329	<i>v68m</i>
<i>b75r</i>	39.48	71.47	-3.69	71.57	357	<i>m34o</i>



%Gamut

$u^*_{rel} = 109$

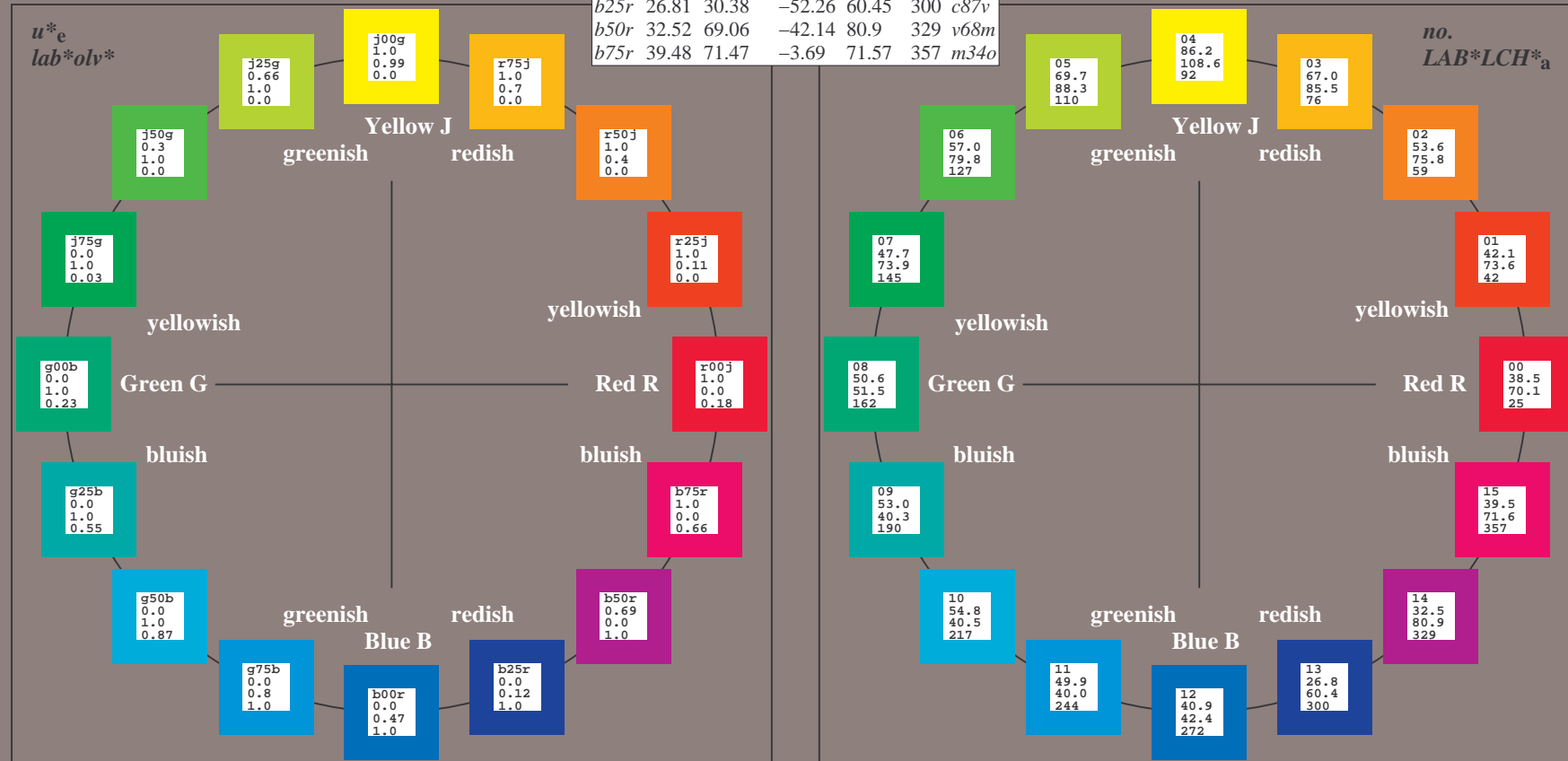
%Regularity

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

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

FRS12\_95a; adapted (a) CIELAB data

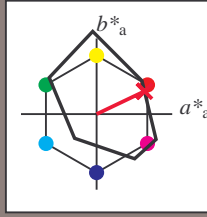
Name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 38 63 30

$LAB^*LCH^*_{Ma}$ : 38 70 25

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

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

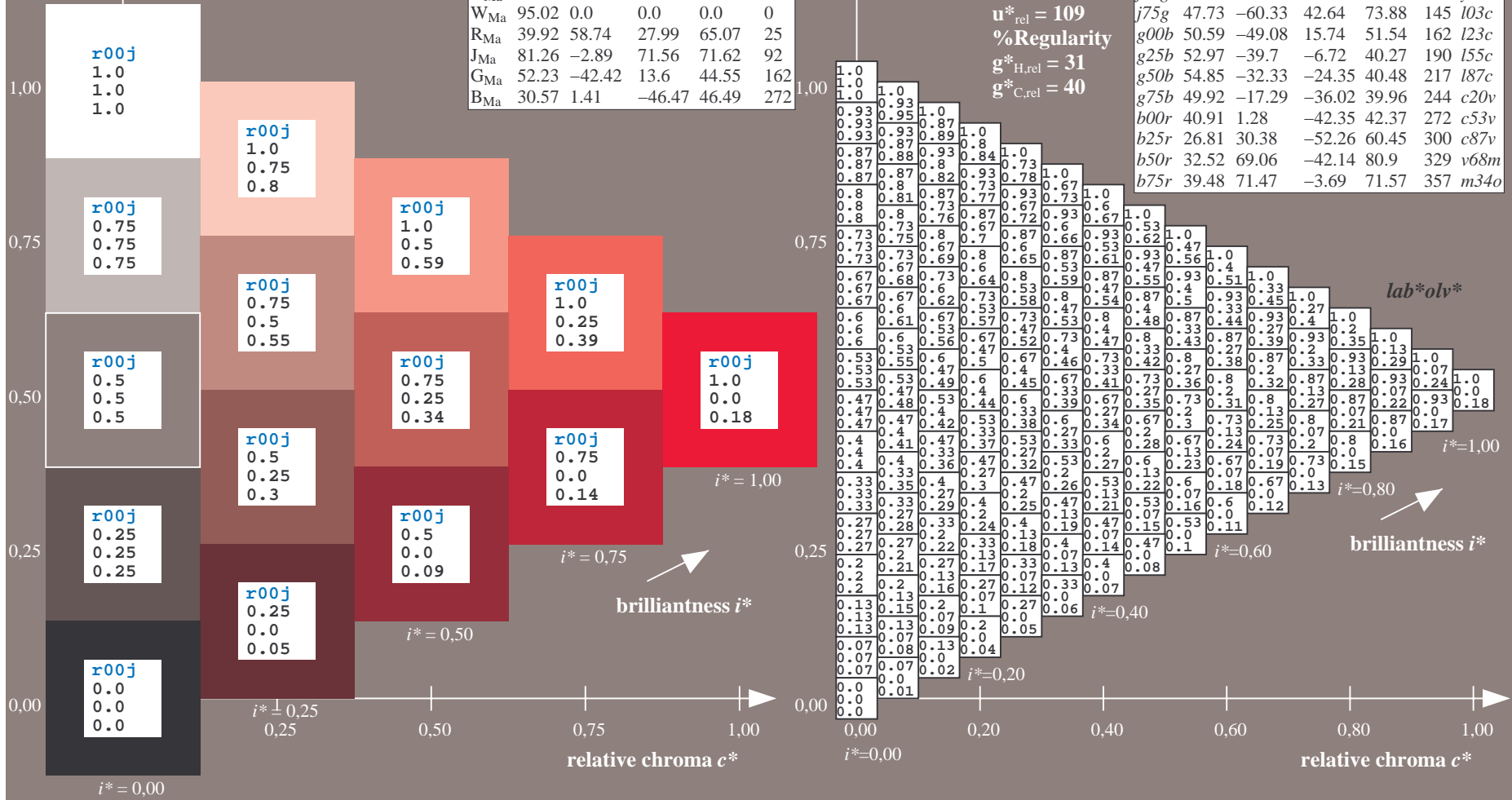
%Gamut

$u^*_{rel} = 109$

%Regularity

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

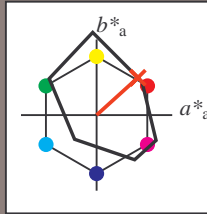
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$u^*_e = r25j$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r25j$   $u^*_d = o10y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 42 55 49

$LAB^*LCH^*_{Ma}$ : 42 74 42

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

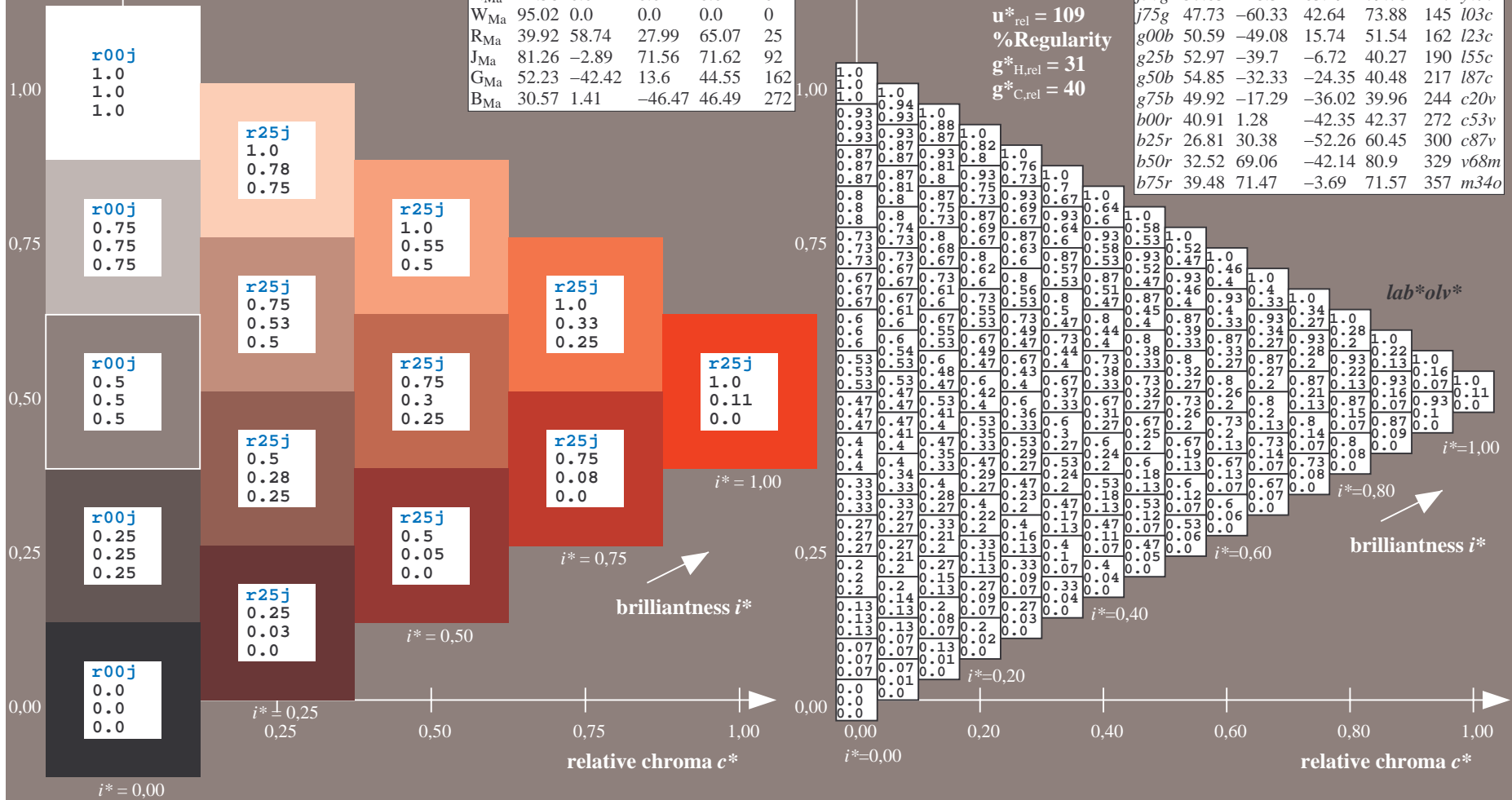
$lab^*olv^*_{Ma}$ : 1.0 0.11 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$

$u^*_e = r50j$

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

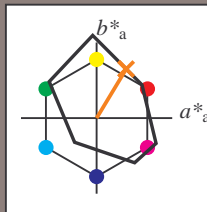
Hue texts:

$u^*_e = r50j$   $u^*_d = o40y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 54\ 39\ 65$

$LAB^*LCH^*_{Ma}: 54\ 76\ 58$

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

$lab^*olv^*_{Ma}: 1.0\ 0.4\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

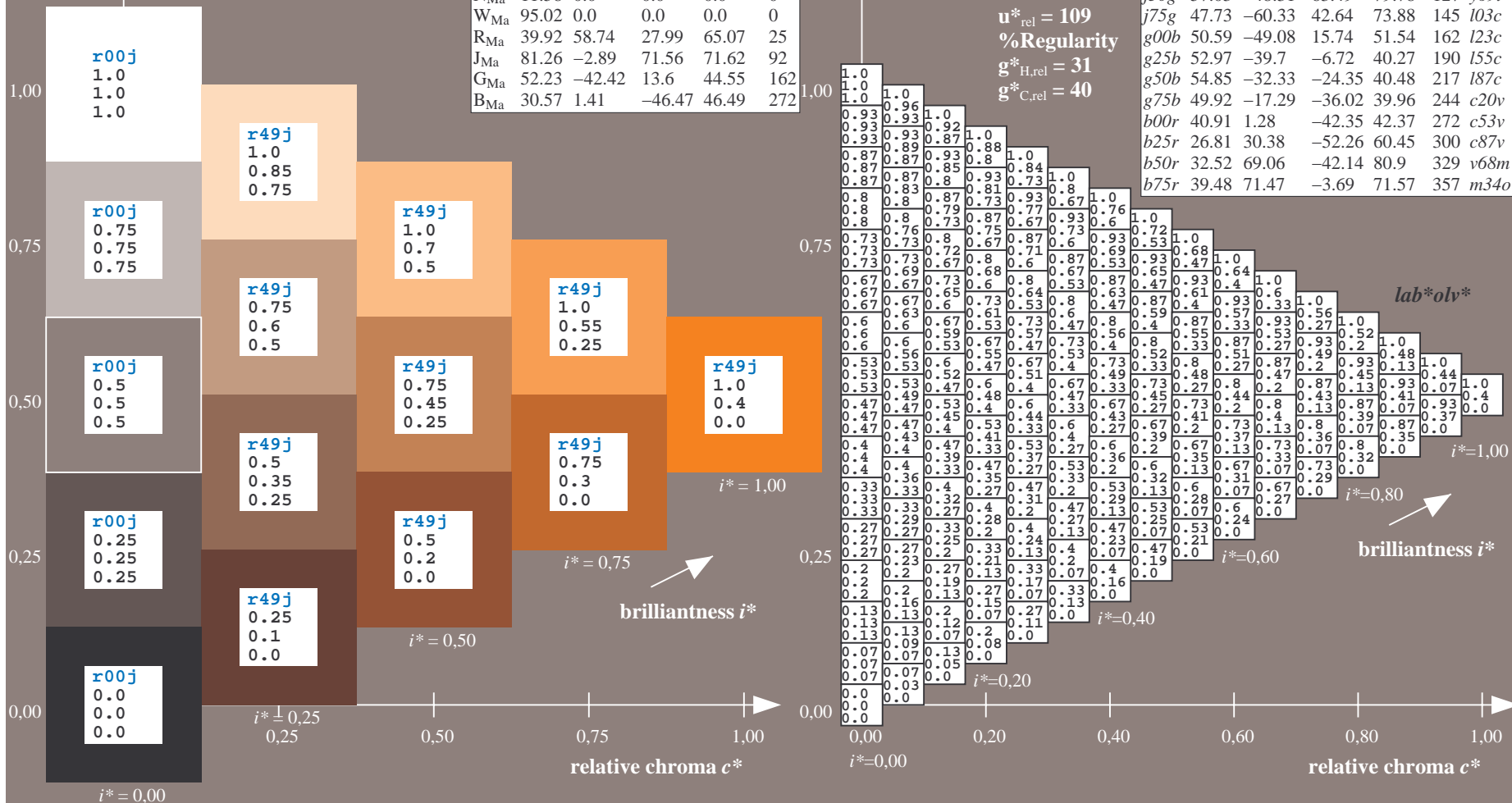
%Gamut

$u^*_{rel} = 109$

%Regularity

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

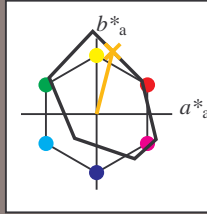
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r75j$   $u^*_d = o69y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 67 21 83

$LAB^*LCH^*_{Ma}$ : 67 86 75

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

$lab^*olv^*_{Ma}$ : 1.0 0.7 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

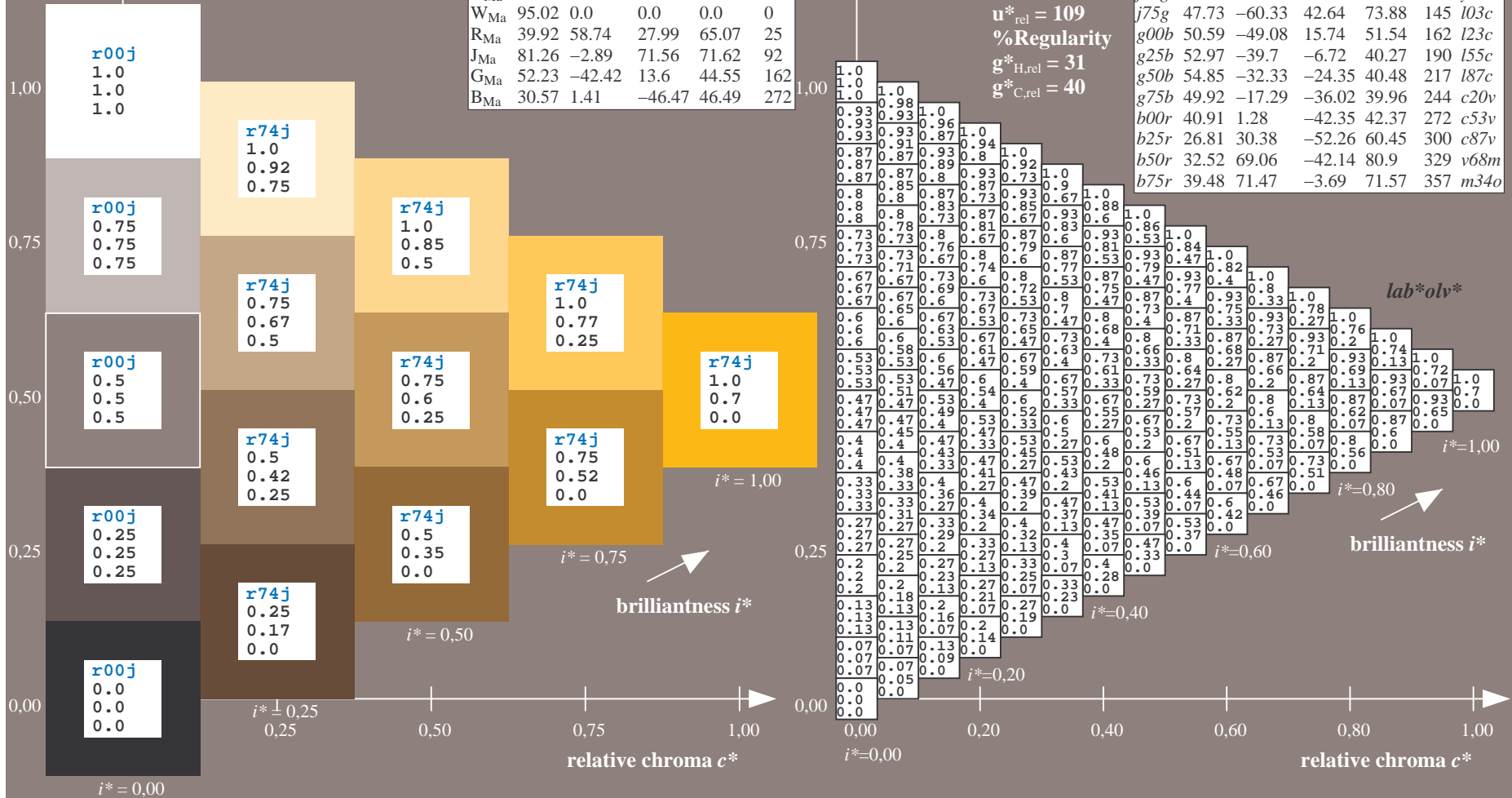
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

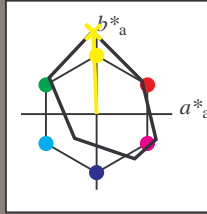




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$   
 data for any colour:

$u^*_e = j00g$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j00g$   $u^*_d = o98y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 86 -4 109

$LAB^*LCH^*_{Ma}$ : 86 109 92

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

$lab^*olv^*_{Ma}$ : 1.0 0.99 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

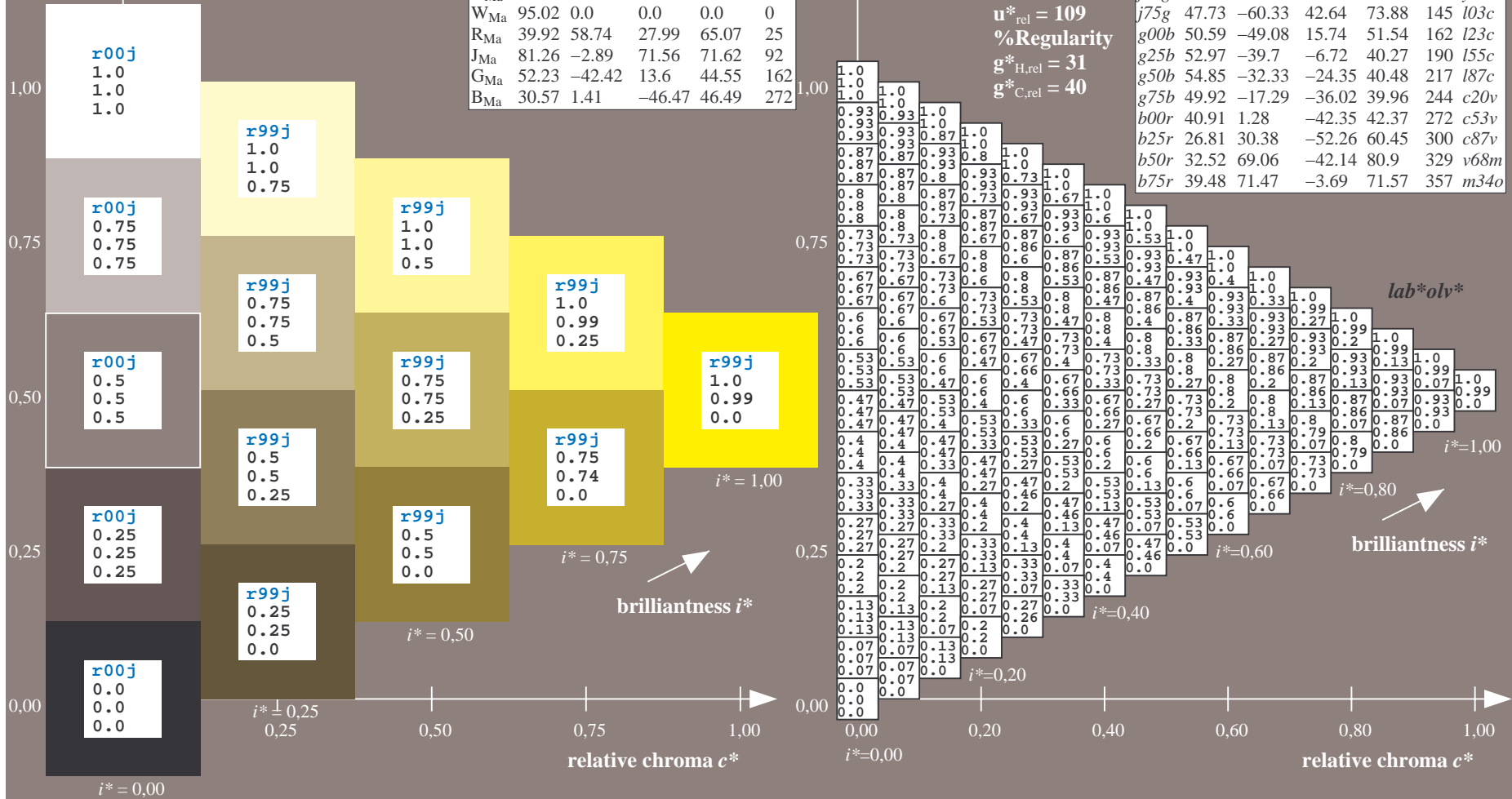
%Gamut

$u^*_{rel} = 109$

%Regularity

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

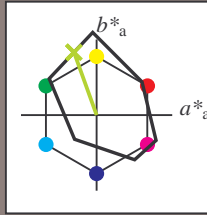
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j25g$   $u^*_d = y34l$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

$LAB^*LCH^*_{Ma}: 70 88 109$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

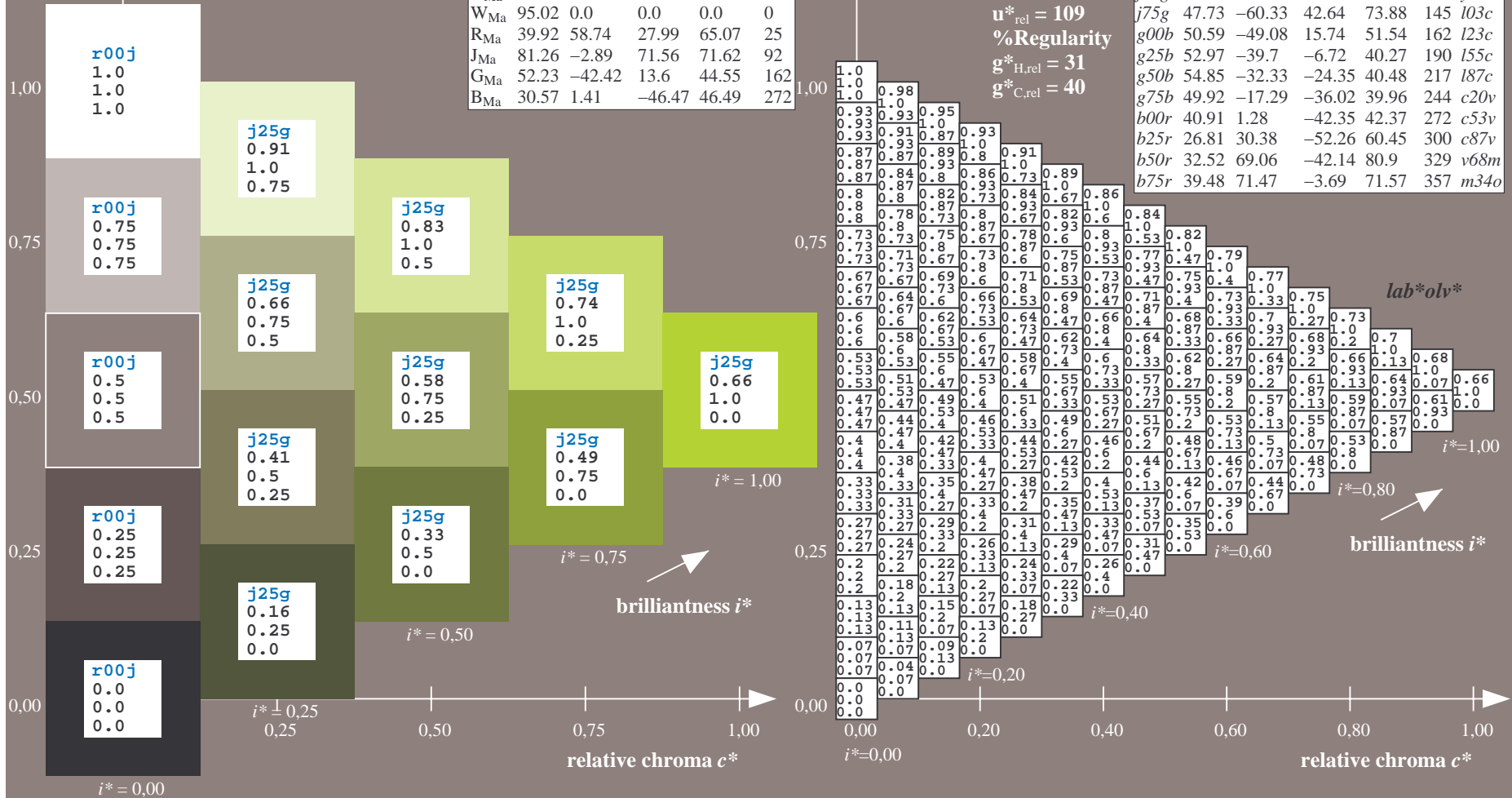
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$   
 data for any colour:

$u^*_e = j50g$   
 $lab^*olv^*$

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

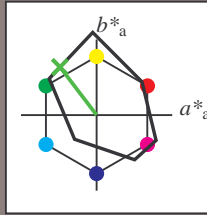
Hue texts:

$u^*_e = j50g$   $u^*_d = y69l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

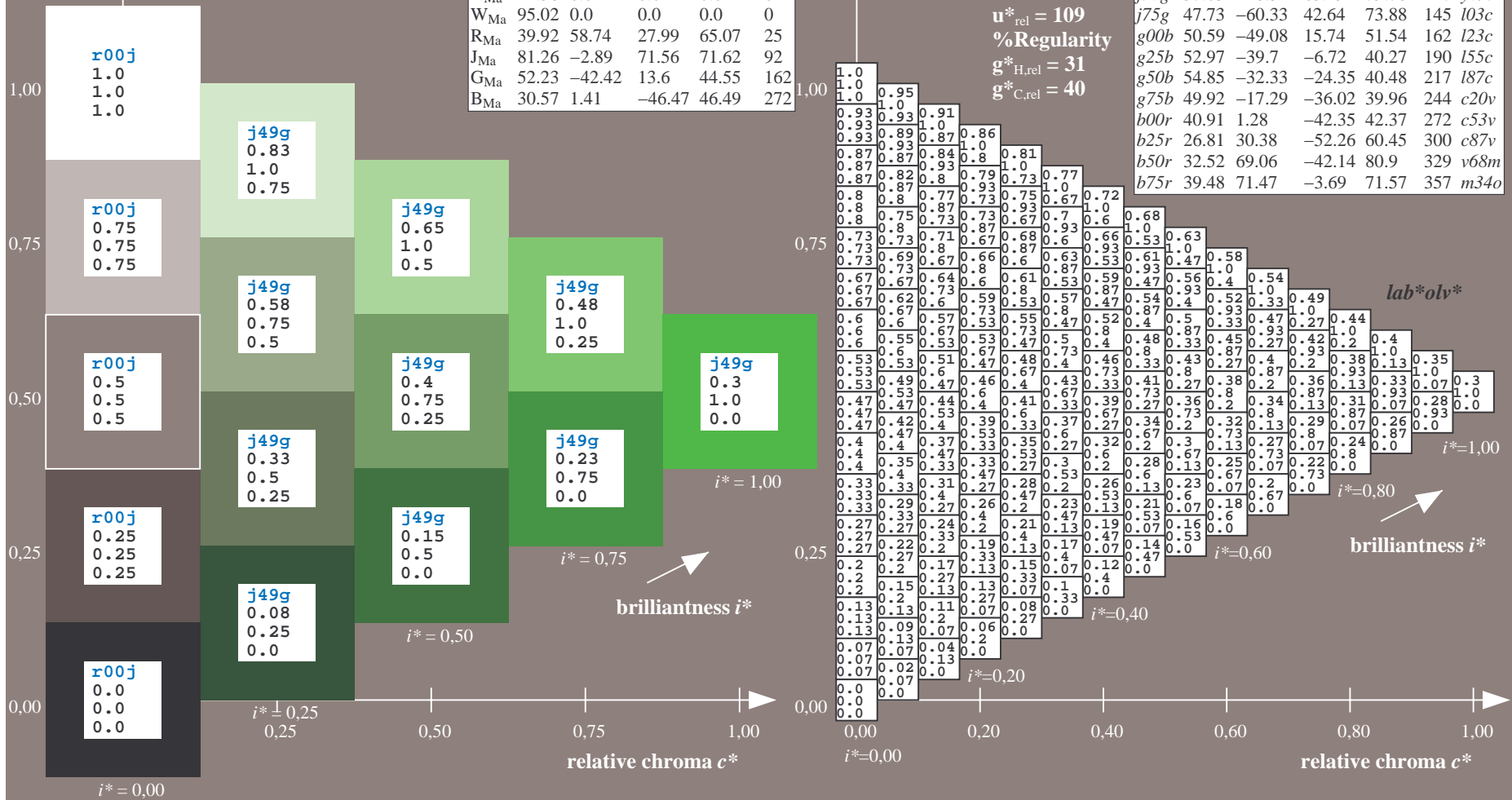
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



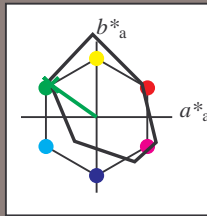


Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

$u^*_e = j75g$   
 $lab^*olv^*$

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

Hue texts:  
 $u^*_e = j75g$   $u^*_d = l03c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 48 -60 43

$LAB^*LCH^*_{Ma}$ : 48 74 144

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

$lab^*olv^*_{Ma}$ : 0.0 1.0 0.03

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

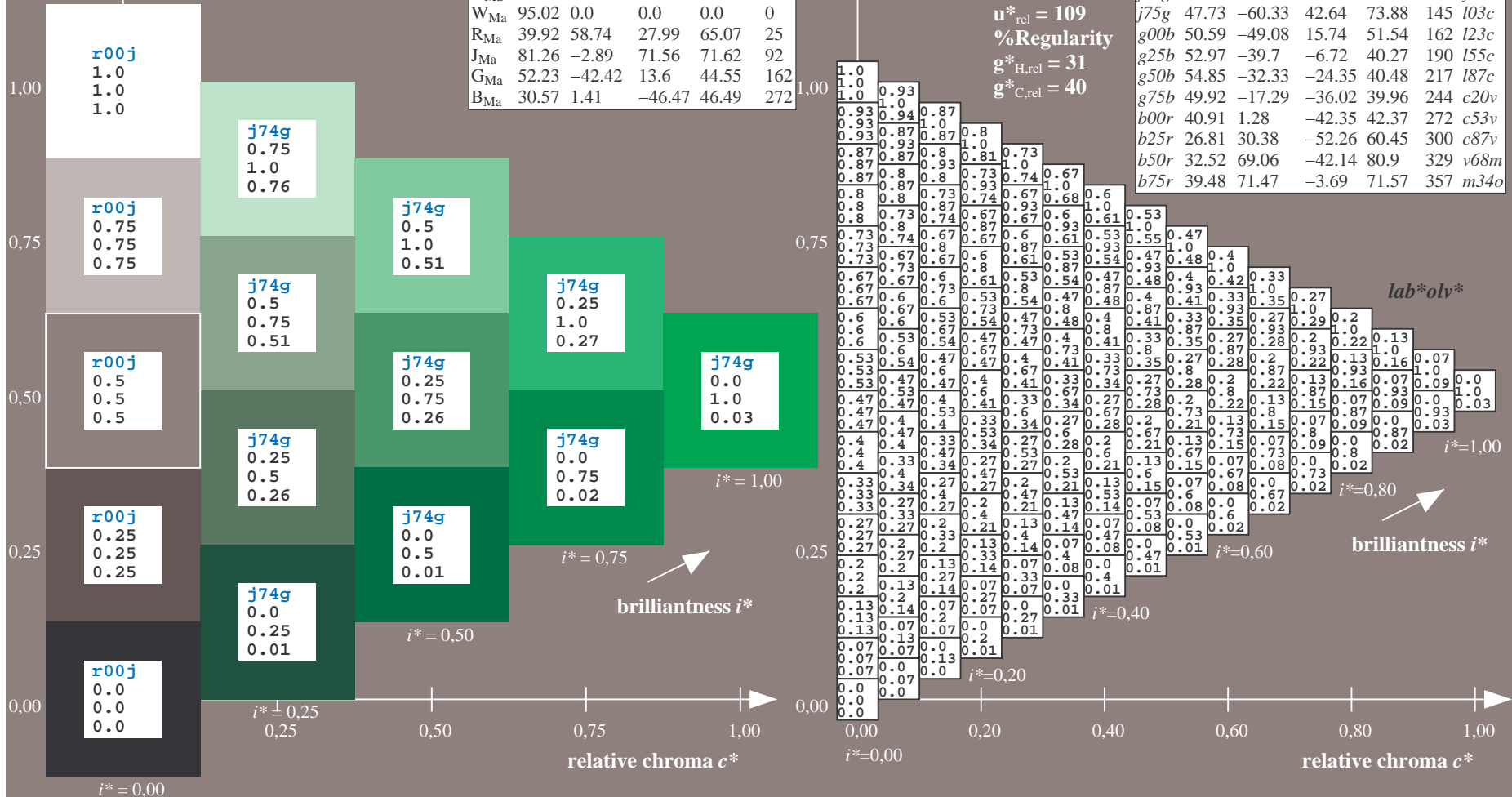
%Gamut

$u^*_{rel} = 109$

%Regularity

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

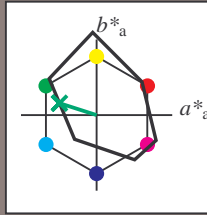
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g00b$   $u^*_d = l23c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 51 -49 16$

$LAB^*LCH^*_{Ma}: 51 52 162$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

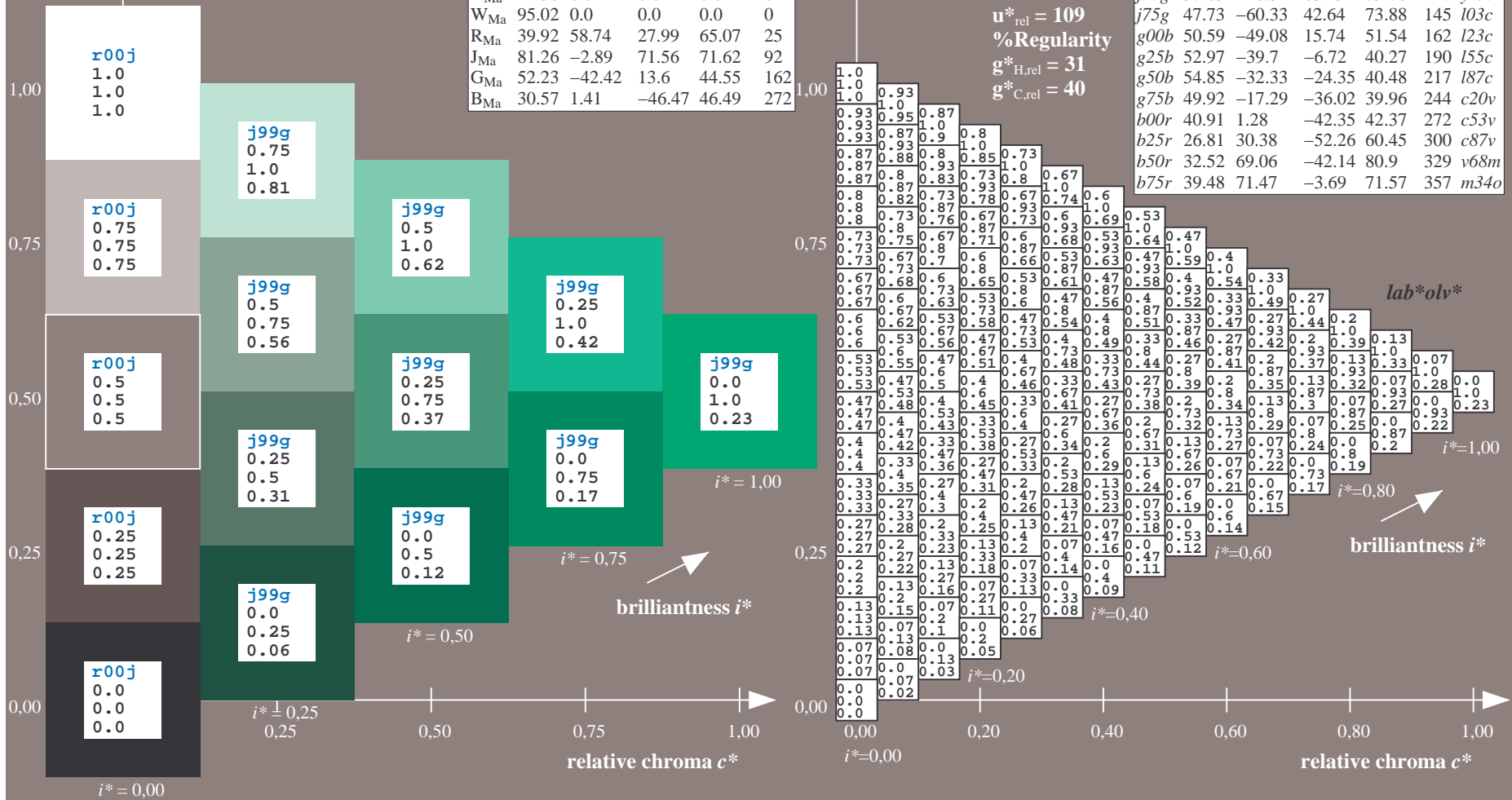
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $lab^*olv^*$

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

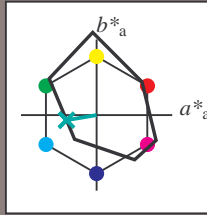
Hue texts:

$u^*_e = g25b$   $u^*_d = l55c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 53 -40 -7

$LAB^*LCH^*_{Ma}$ : 53 40 189

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

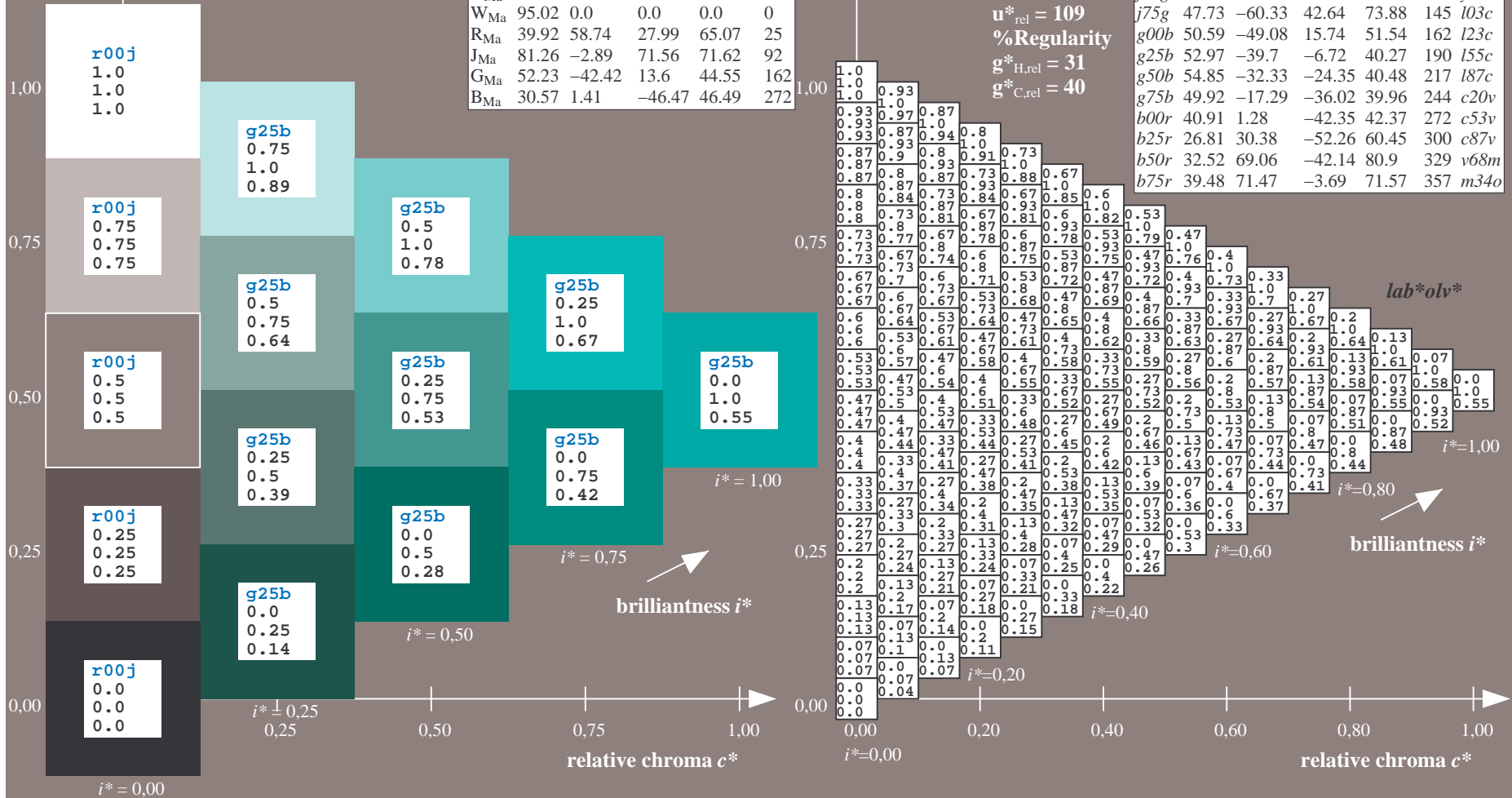
%Gamut

$u^*_{rel} = 109$

%Regularity

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

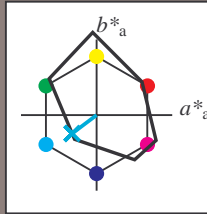
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g50b$   $u^*_d = l87c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

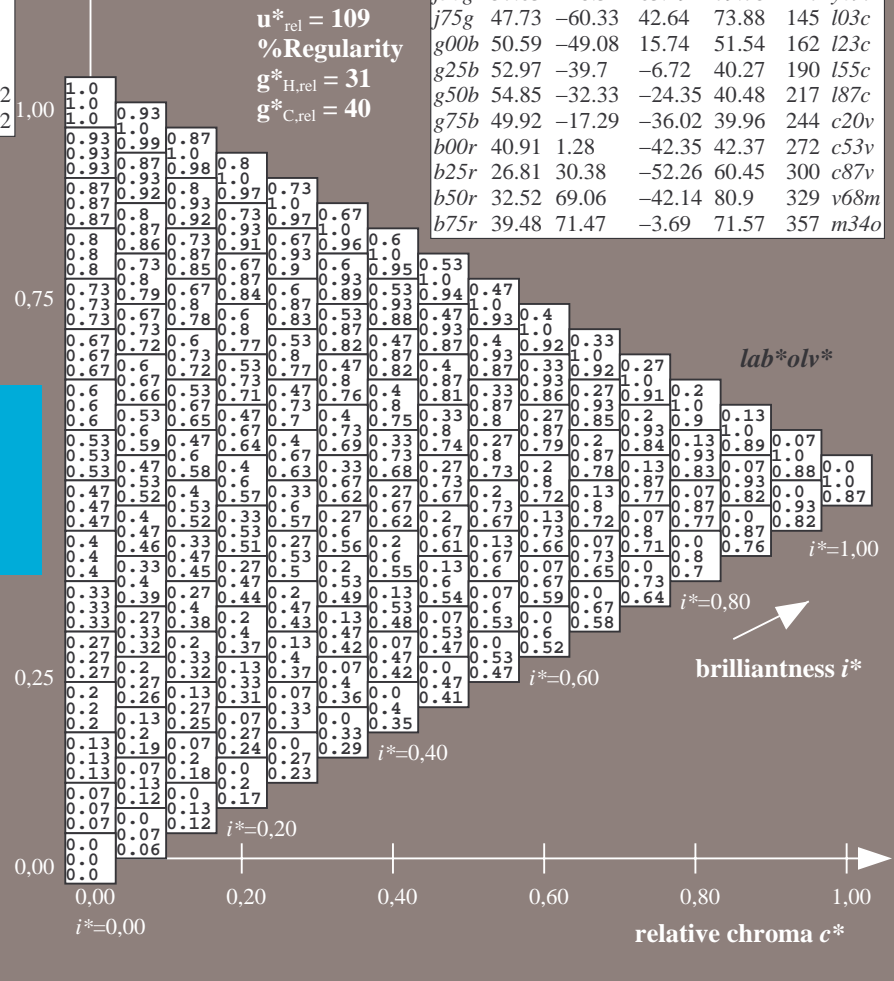
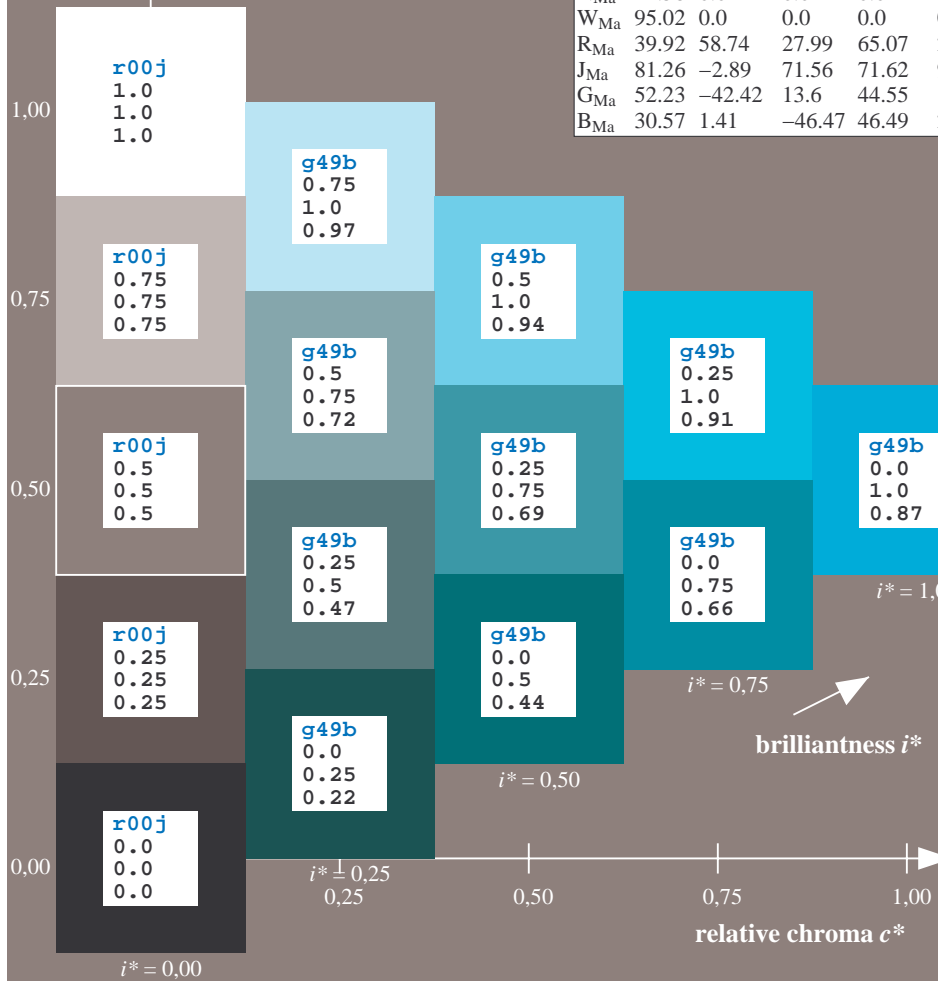
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



$lab^*olv^*$

brilliantness  $i^*$

$i^* = 1.00$

$i^* = 0.80$

$i^* = 0.60$

$i^* = 0.40$

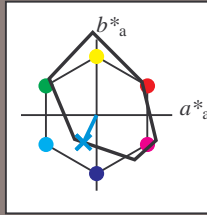
$i^* = 0.20$

$i^* = 0.00$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g75b$   $u^*_d = c20v$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 50 -17 -36$

$LAB^*LCH^*_{Ma}: 50 40 244$

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

$lab^*olv^*_{Ma}: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

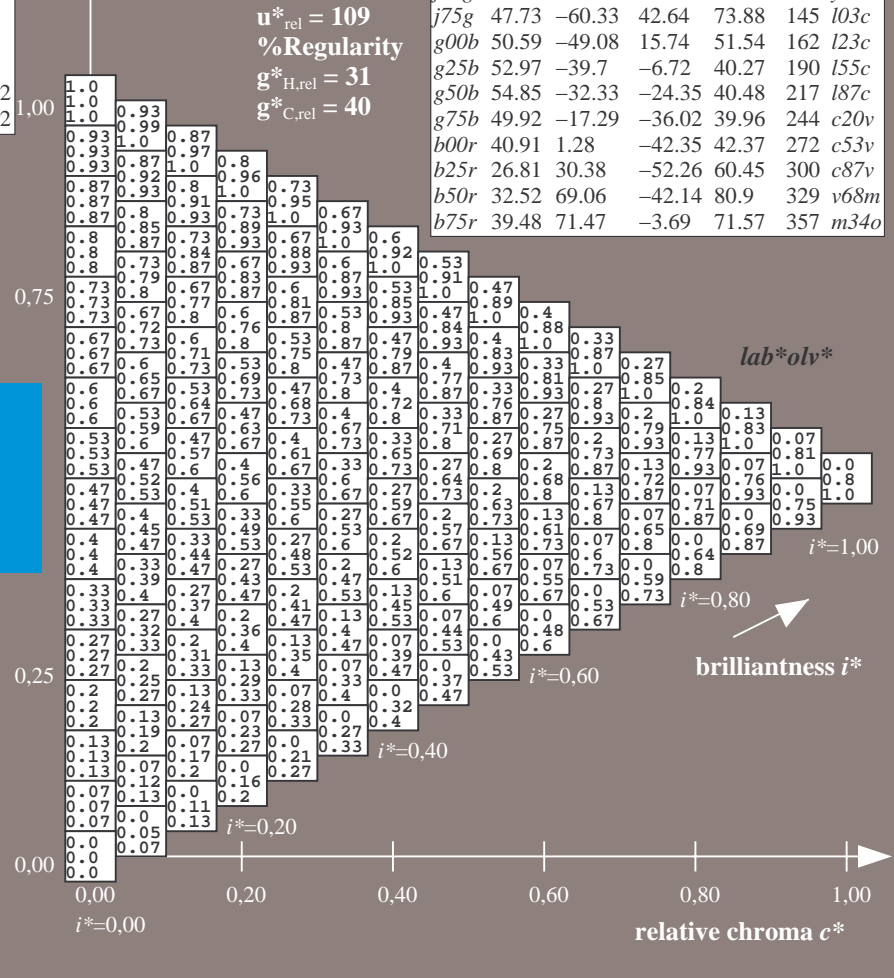
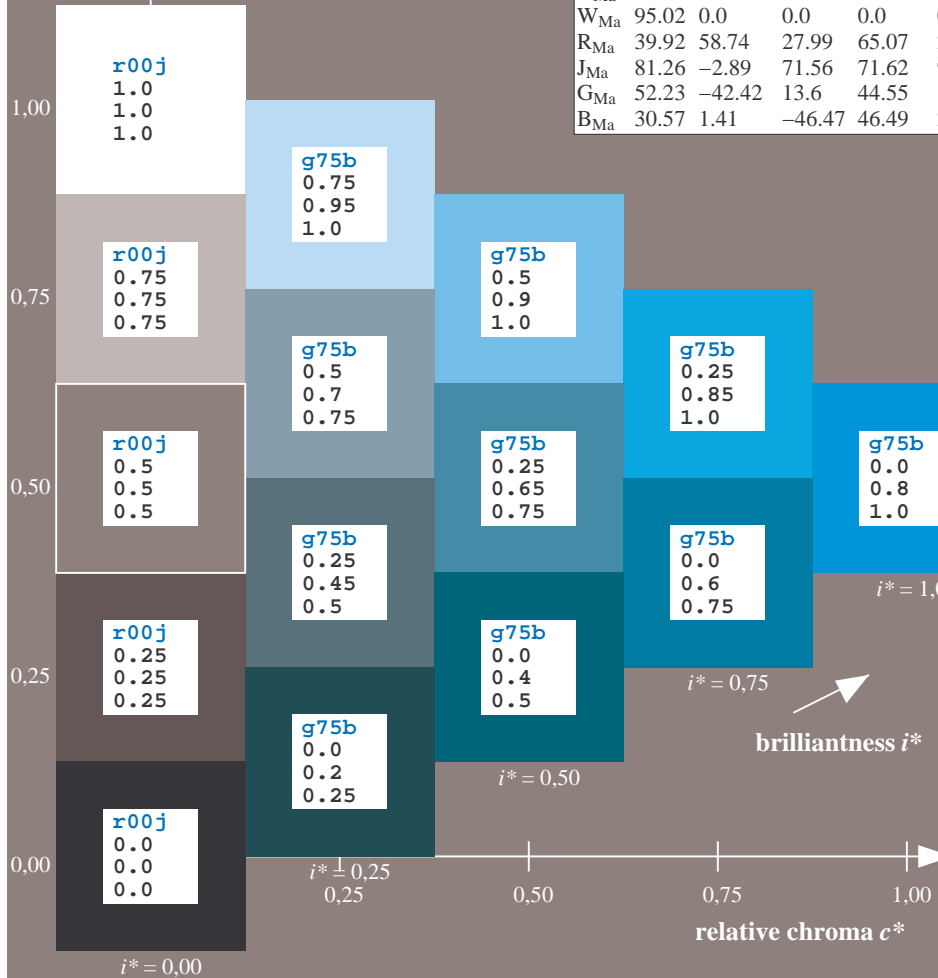
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$   
 data for any colour:

$u^*_e = b00r$   
 $lab^*olv^*$

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

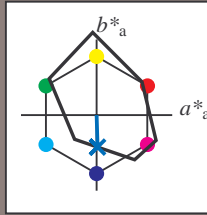
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 41 1 -42

$LAB^*LCH^*_{Ma}$ : 41 42 271

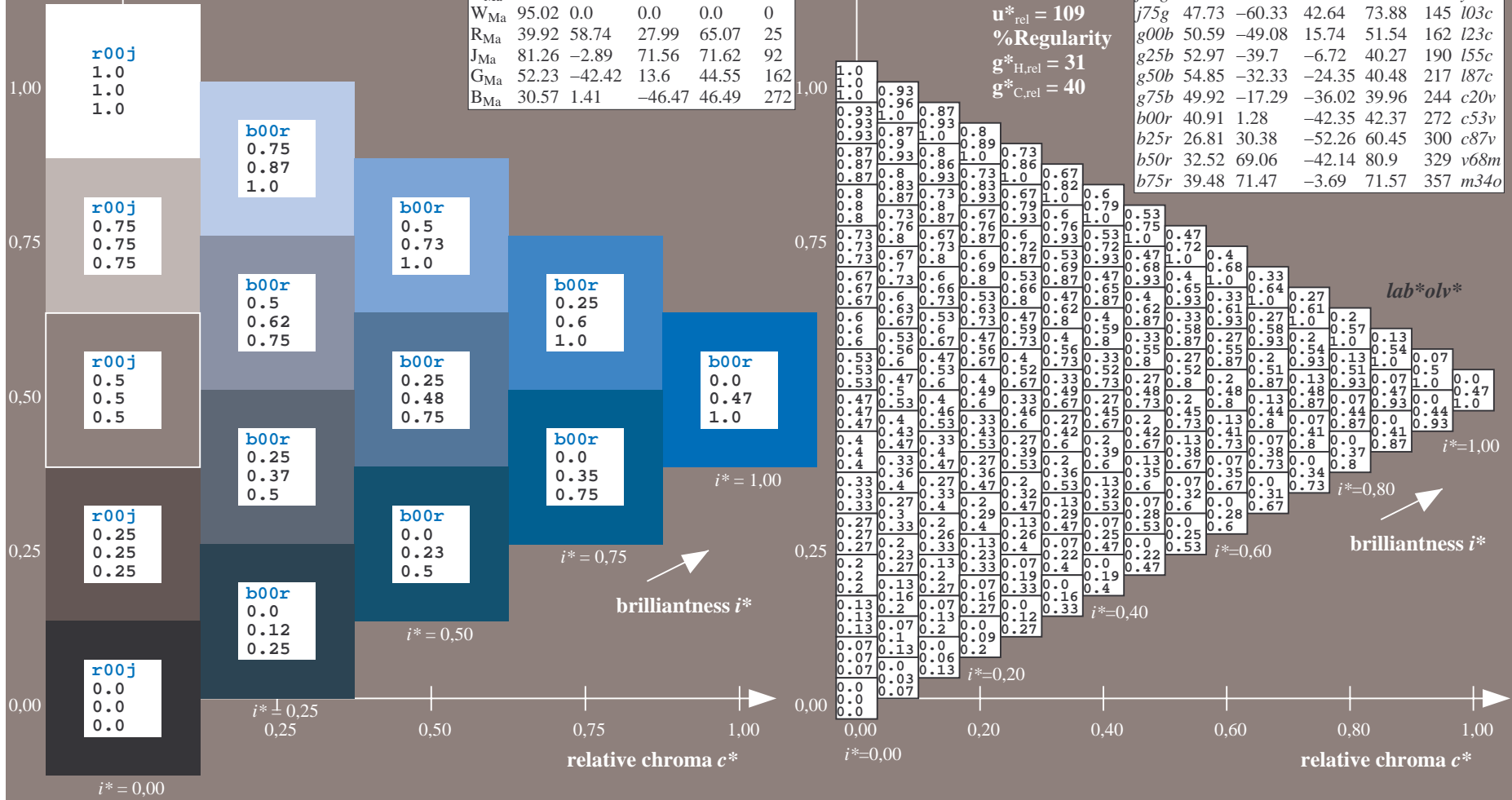
$lab^*rgb^*_{Ma}$ : 0.0 0.0 1.0

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

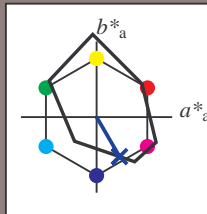
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$   
 $lab^*olv^*$

data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$   
Hue texts:  
 $u^*_e = b25r$   $u^*_d = c87v$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 27\ 30\ -52$

$LAB^*LCH^*_{Ma}: 27\ 60\ 300$

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

$lab^*olv^*_{Ma}: 0.0\ 0.12\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

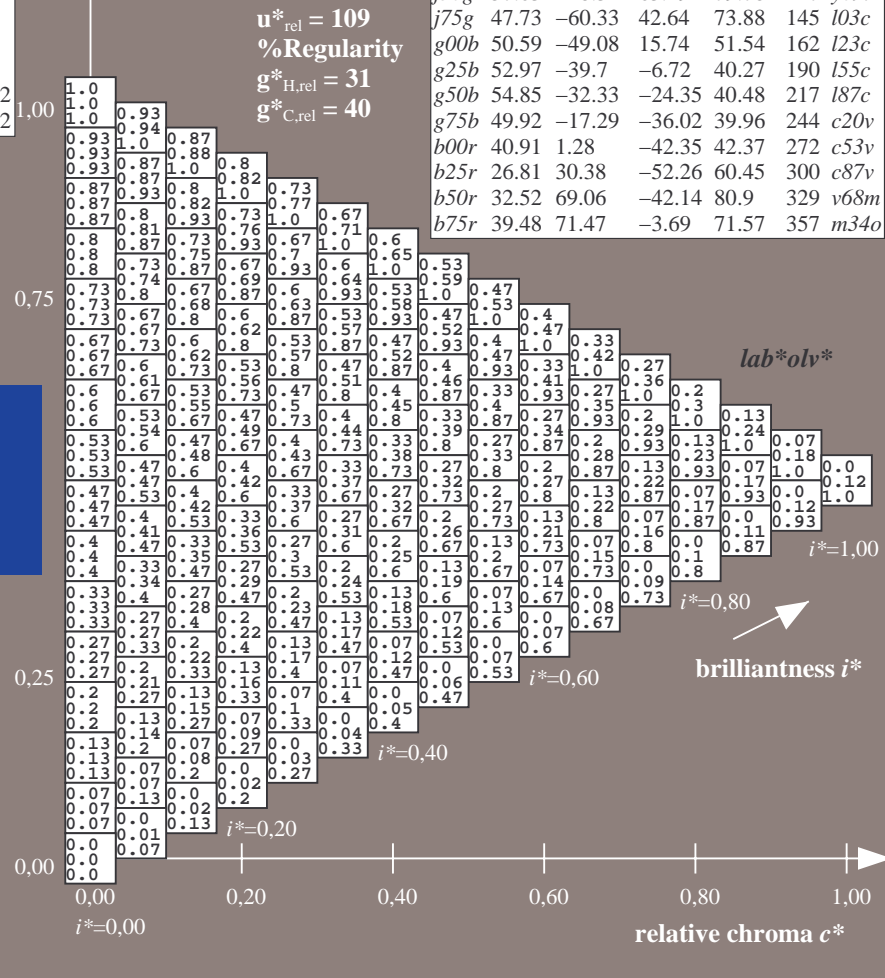
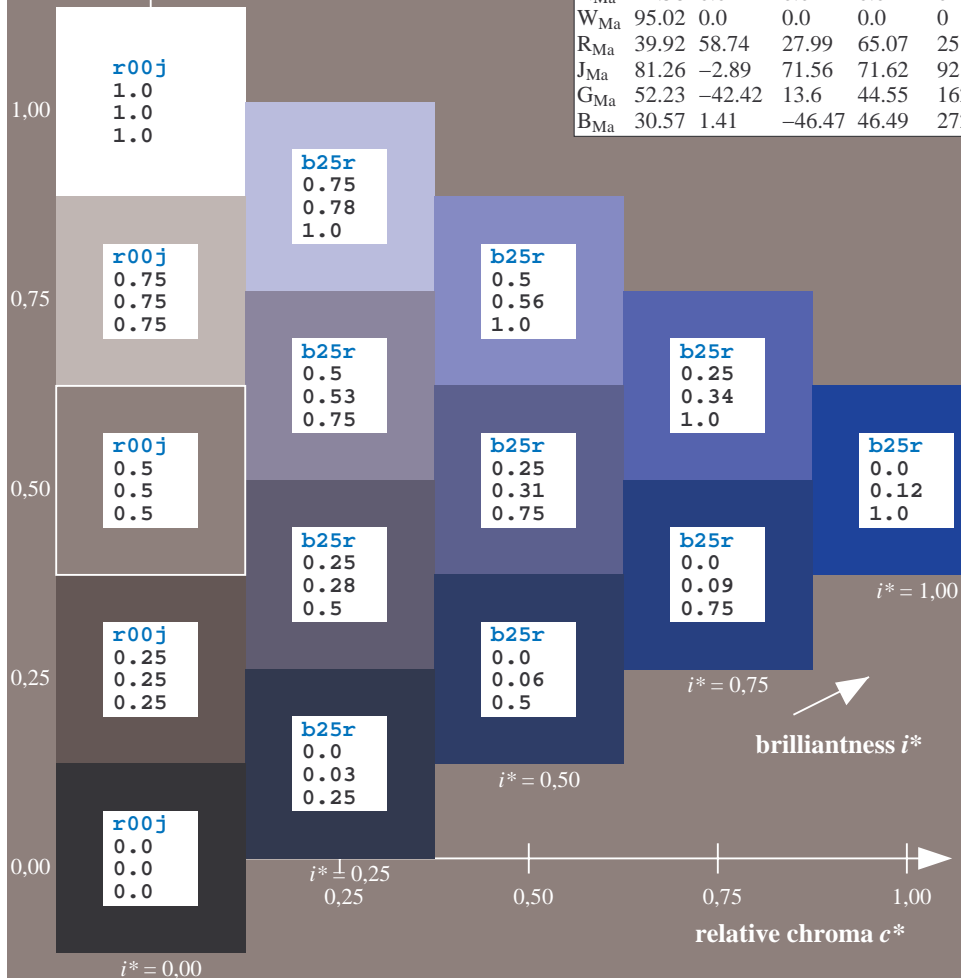
%Gamut

$u^*_{rel} = 109$

%Regularity

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

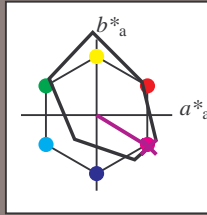
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$   
 data for any colour:

$u^*_e = b50r$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = b50r$   $u^*_d = v68m$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 33 69 -42

$LAB^*LCH^*_{Ma}$ : 33 81 328

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

$lab^*olv^*_{Ma}$ : 0.69 0.0 1.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

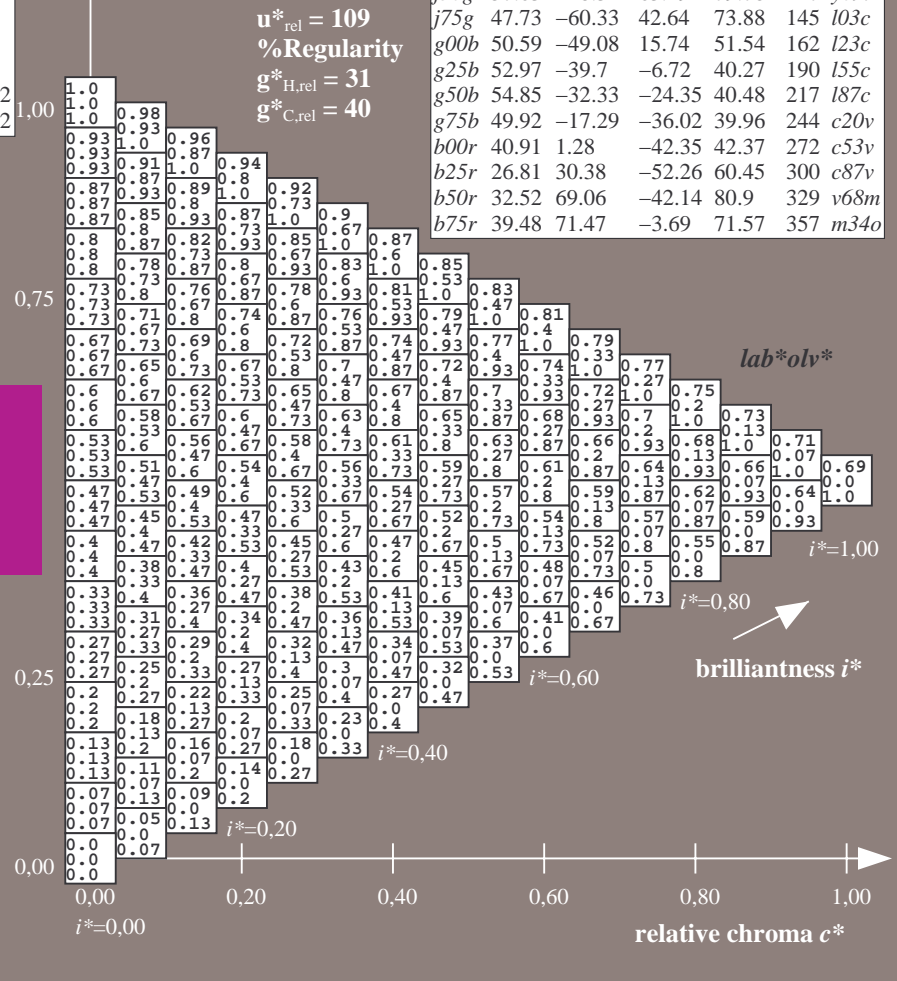
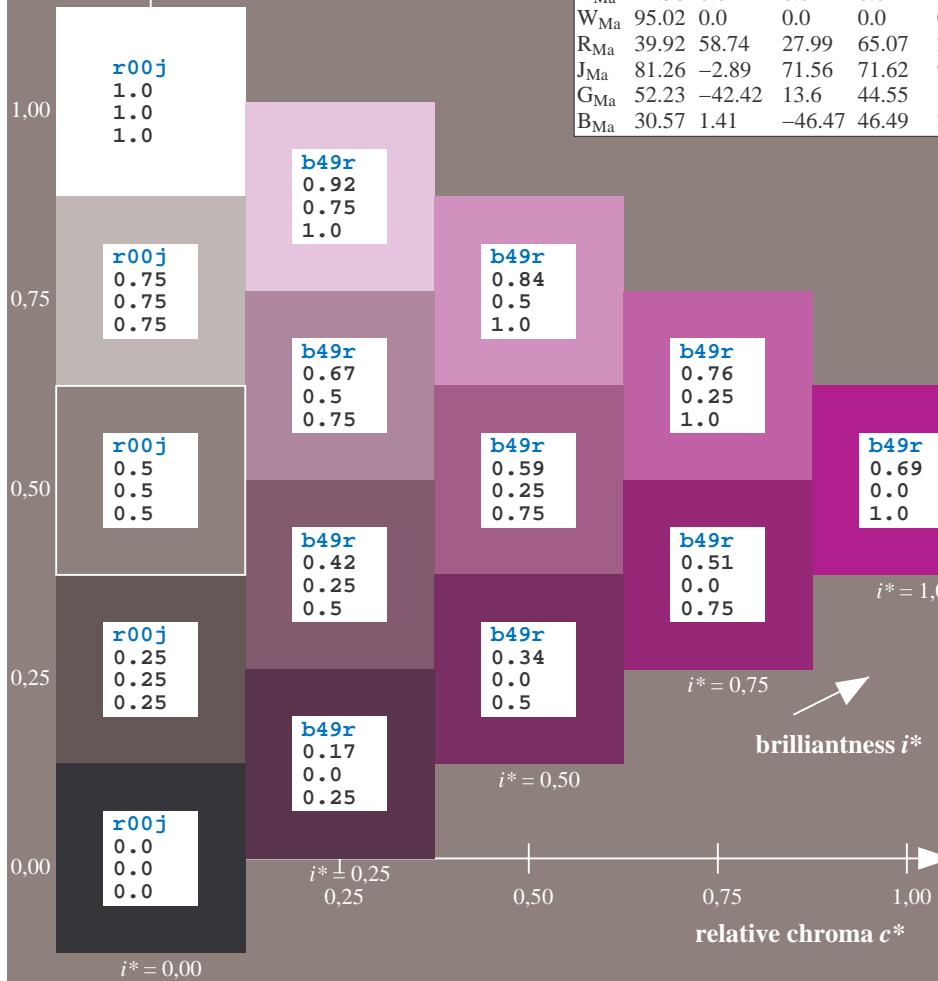
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$

$u^*_e = b75r$

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

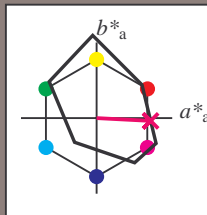
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 39 71 -4

$LAB^*LCH^*_{Ma}$ : 39 72 357

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

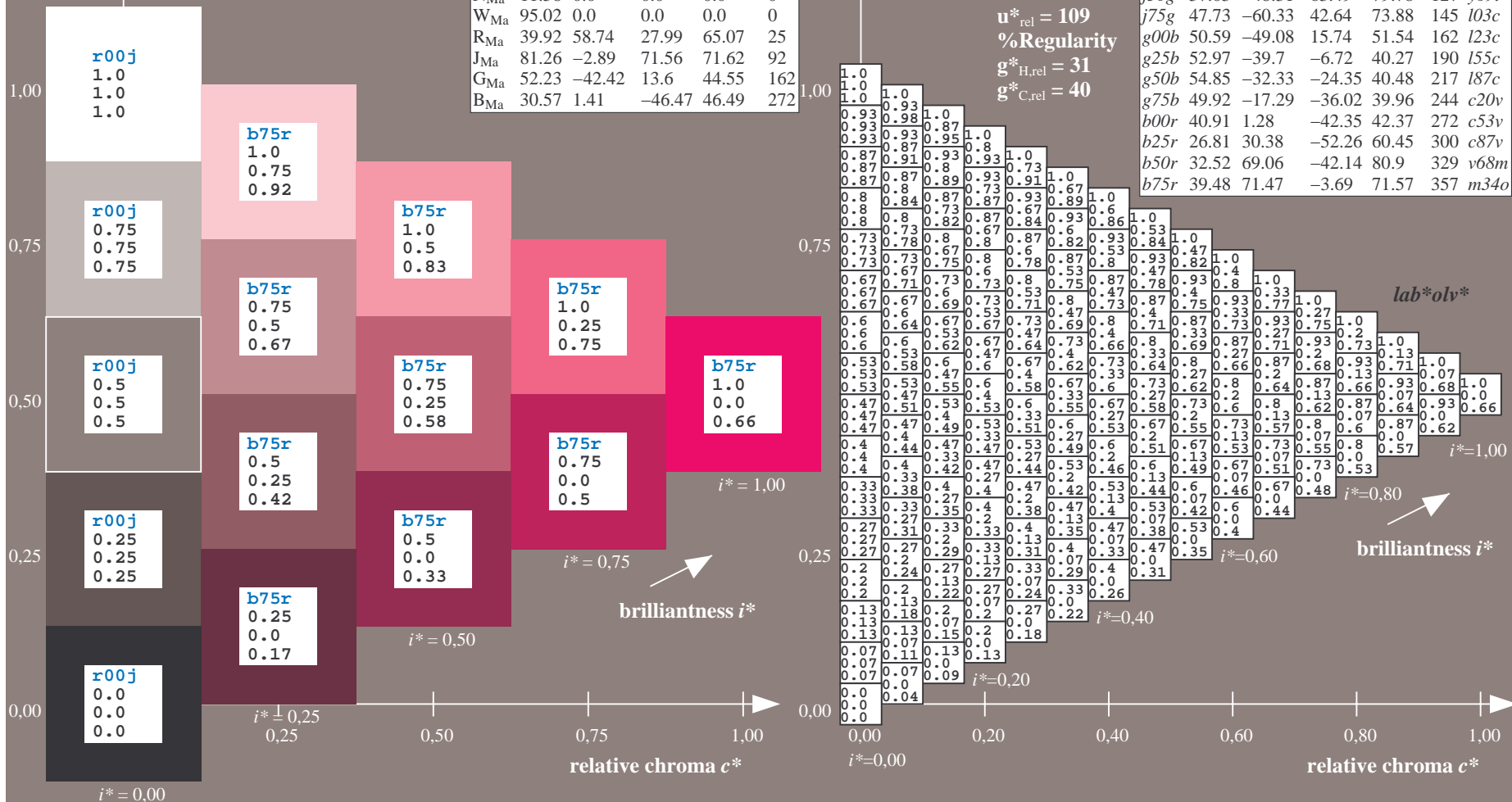
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



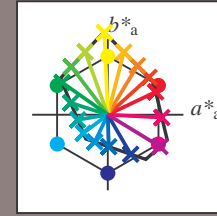


Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15  
 elementary hue text:  
 $u^*_e = 16$  hues *r00j, r25j, ..., b75r*  
 contrast reduction factor:  
 $c_R = 1.0$

FRS12\_95a; adapted (a) CIELAB data

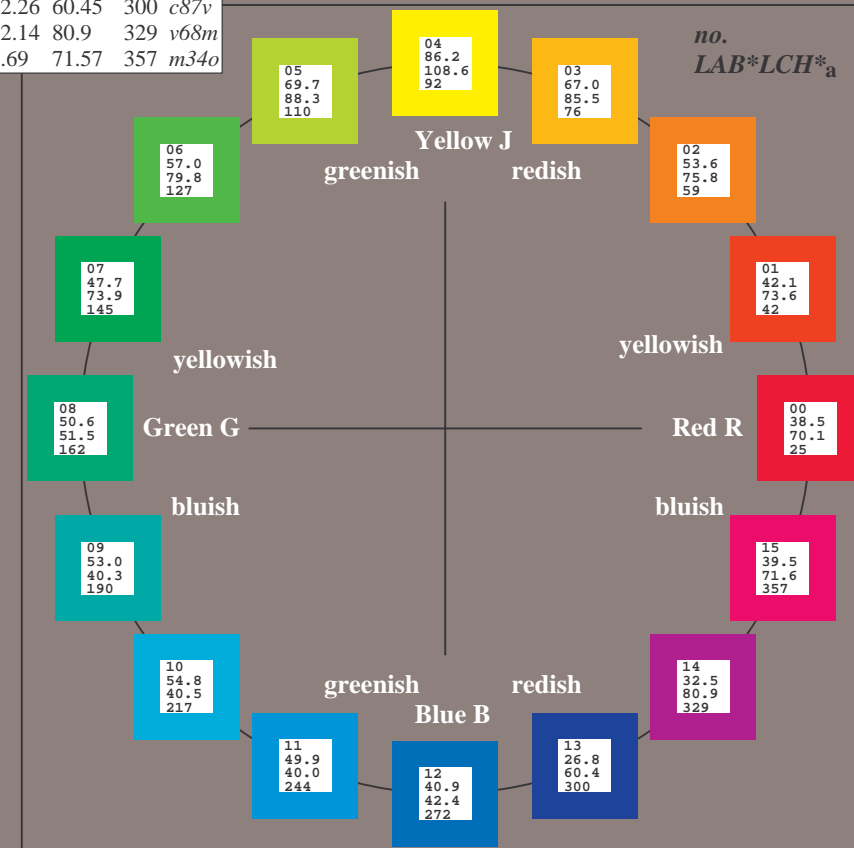
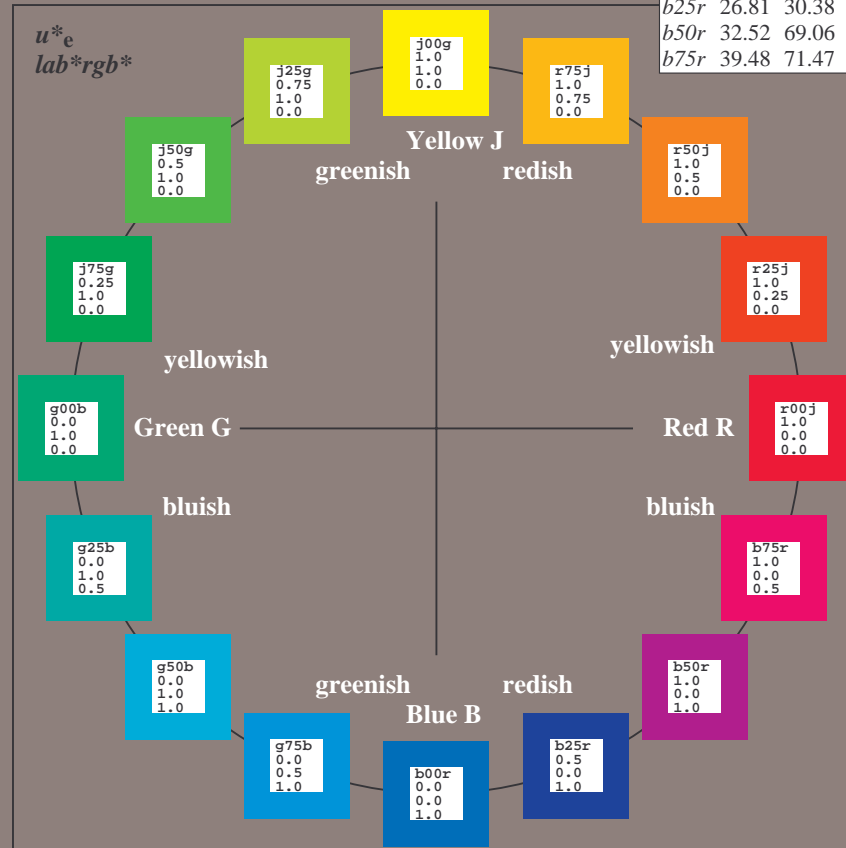
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

FRS12\_95a; adapted (a) CIELAB data

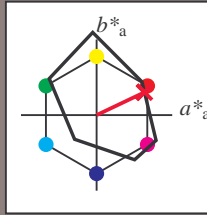
Name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	38.06	60.0	44.0	74.4	36
YMa	86.77	-5.17	109.32	109.44	93
LMa	47.13	-62.67	48.24	79.09	142
CMa	55.66	-29.14	-31.99	43.27	228
VMa	17.15	50.3	-59.04	77.57	310
MMa	40.37	78.64	-33.5	85.48	337
NMa	11.58	0.0	0.0	0.0	0
WMa	95.02	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.89	71.56	71.62	92
GCIE	52.23	-42.42	13.6	44.55	162
BCIE	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 38 63 30

$LAB^*LCH^*_{Ma}$ : 38 70 25

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

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

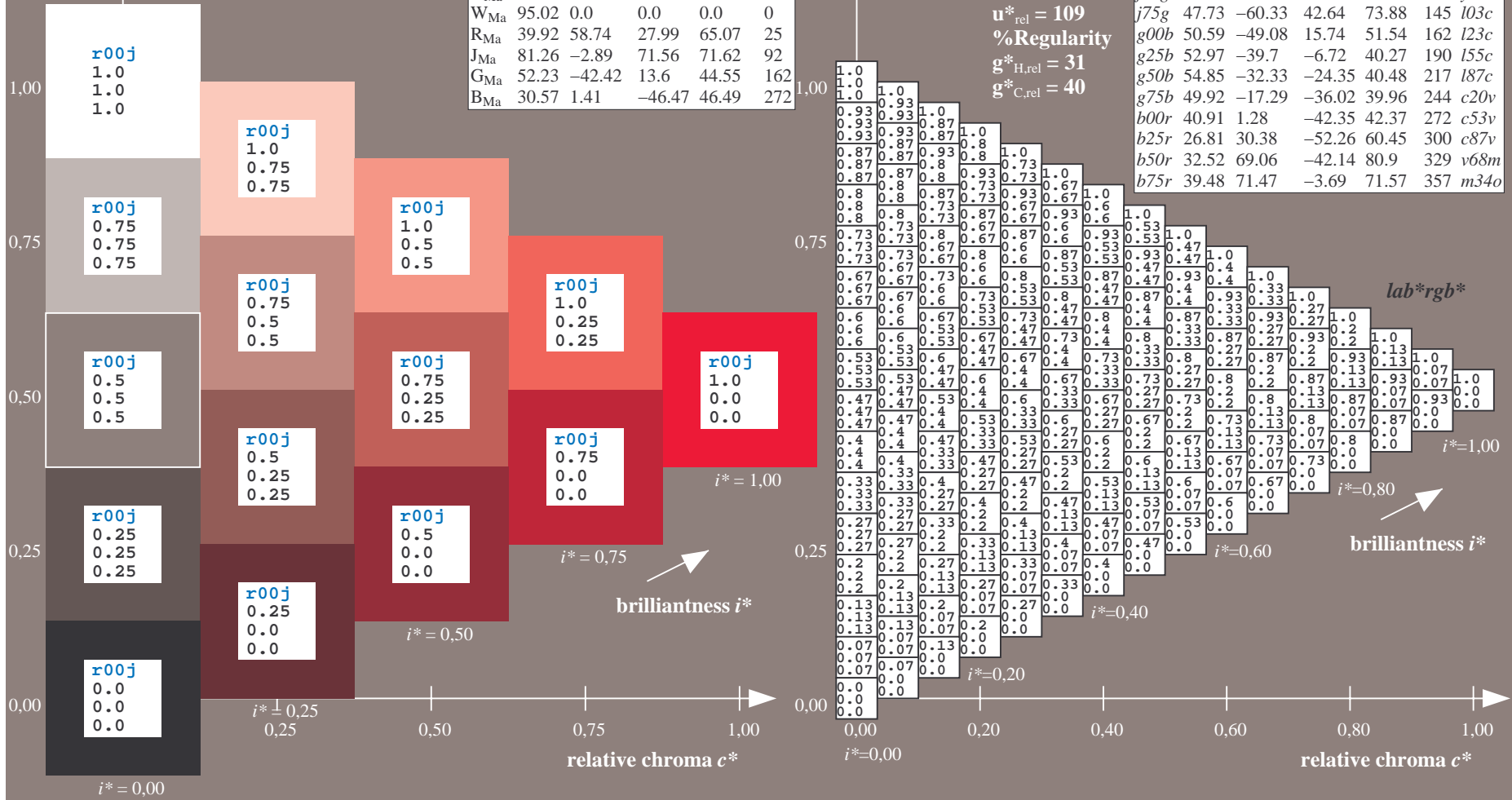
%Gamut

$u^*_{rel} = 109$

%Regularity

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

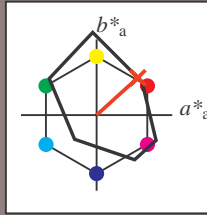
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$u^*_e = r25j$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r25j$   $u^*_d = o10y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 42 55 49

$LAB^*LCH^*_{Ma}$ : 42 74 42

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

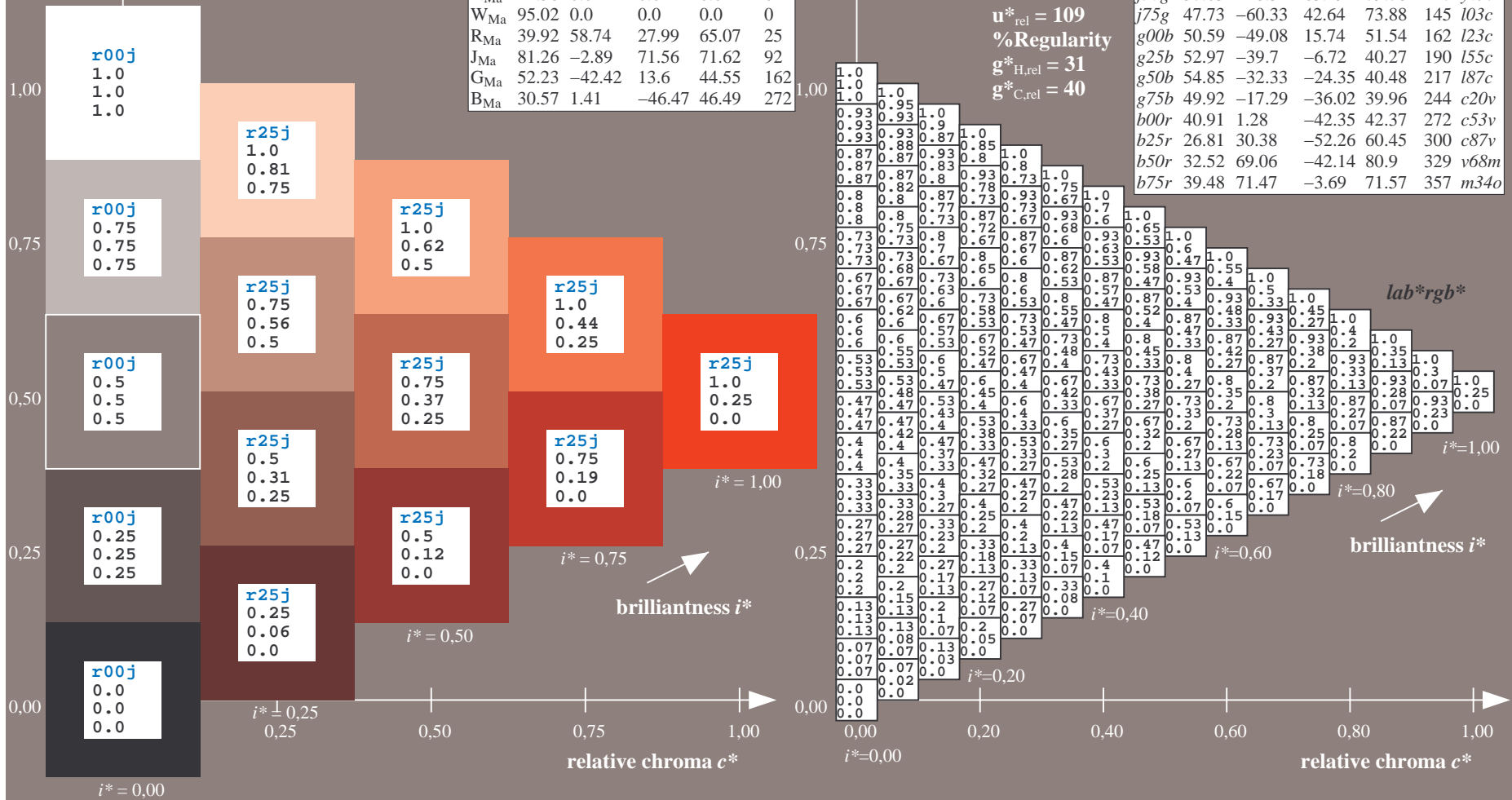
$lab^*olv^*_{Ma}$ : 1.0 0.11 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

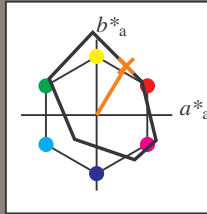




Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$   
 data for any colour:

$u^*_e = r50j$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r50j$   $u^*_d = o40y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 54\ 39\ 65$

$LAB^*LCH^*_{Ma}: 54\ 76\ 58$

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

$lab^*olv^*_{Ma}: 1.0\ 0.4\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

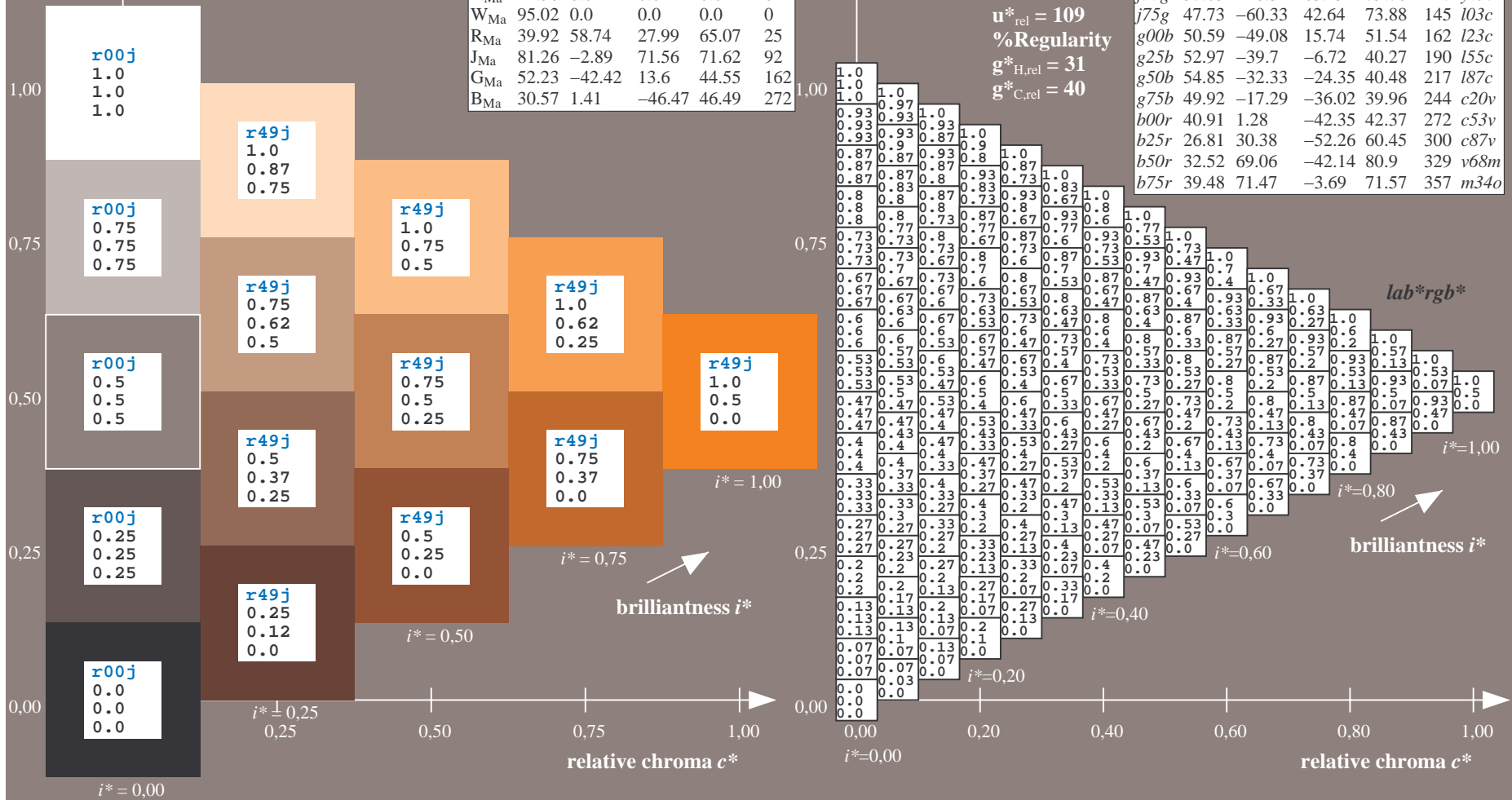
%Gamut

$u^*_{rel} = 109$

%Regularity

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

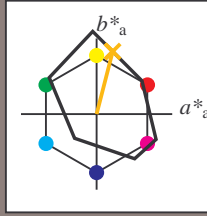
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r75j$   $u^*_d = o69y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 67 21 83

$LAB^*LCH^*_{Ma}$ : 67 86 75

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

$lab^*olv^*_{Ma}$ : 1.0 0.7 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

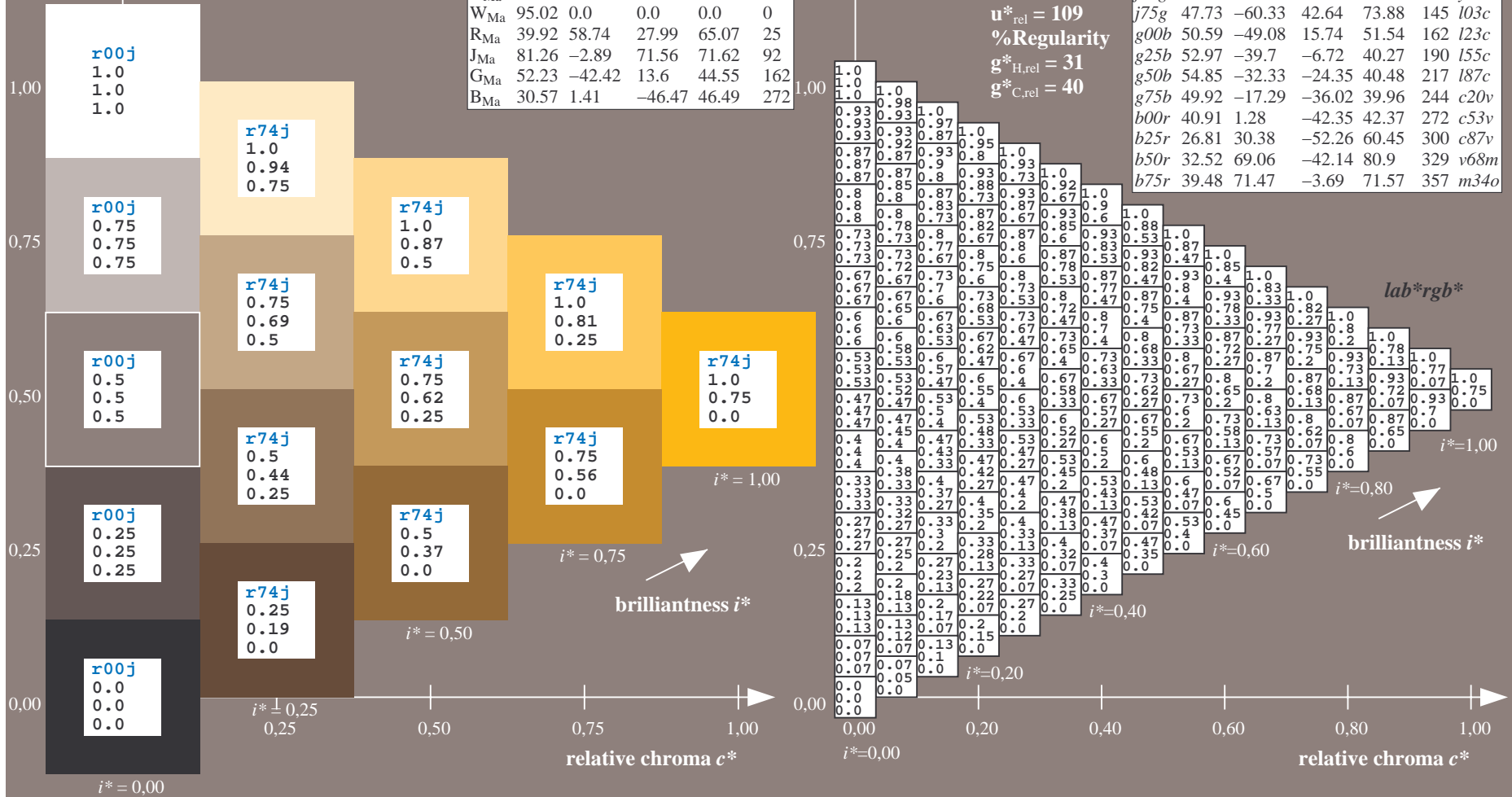
%Gamut

$u^*_{rel} = 109$

%Regularity

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

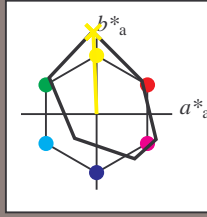
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$   
 data for any colour:

$u^*_e = j00g$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j00g$   $u^*_d = o98y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 86 -4 109

$LAB^*LCH^*_{Ma}$ : 86 109 92

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

$lab^*olv^*_{Ma}$ : 1.0 0.99 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

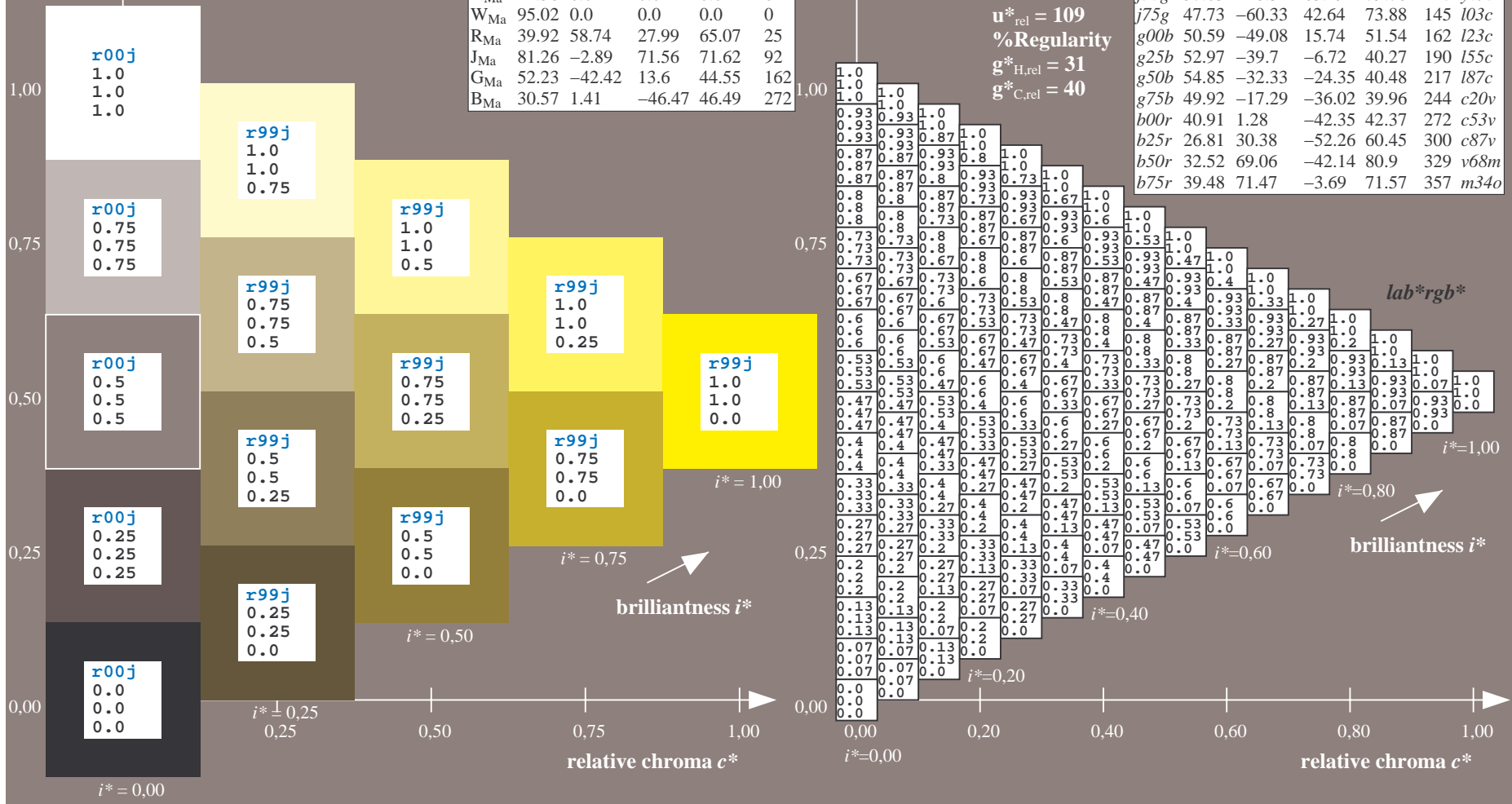
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

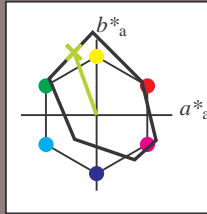




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j25g$   $u^*_d = y34l$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

$LAB^*LCH^*_{Ma}: 70 88 109$

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

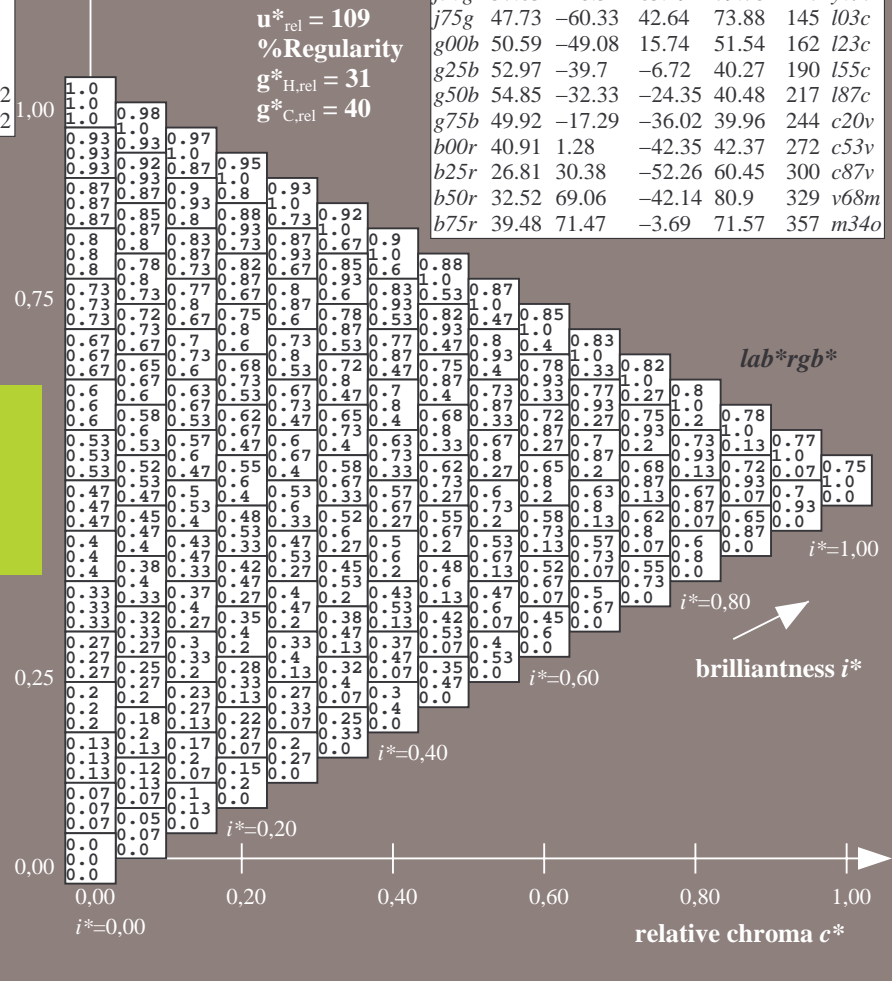
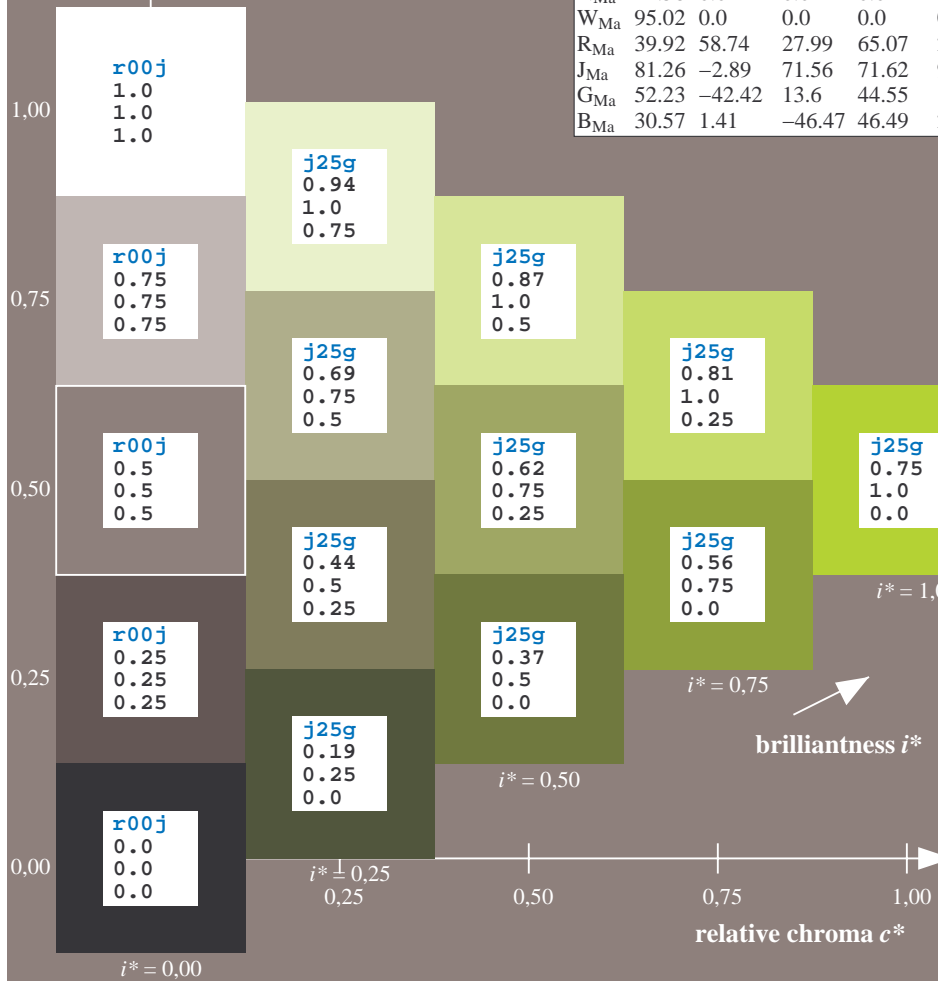
$lab^*olv^*_{Ma}: 0.66 1.0 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$

$u^*_e = j50g$

$lab^*rgb^*$

data for any colour:

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

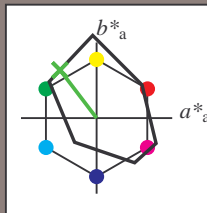
Hue texts:

$u^*_e = j50g$   $u^*_d = y69l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

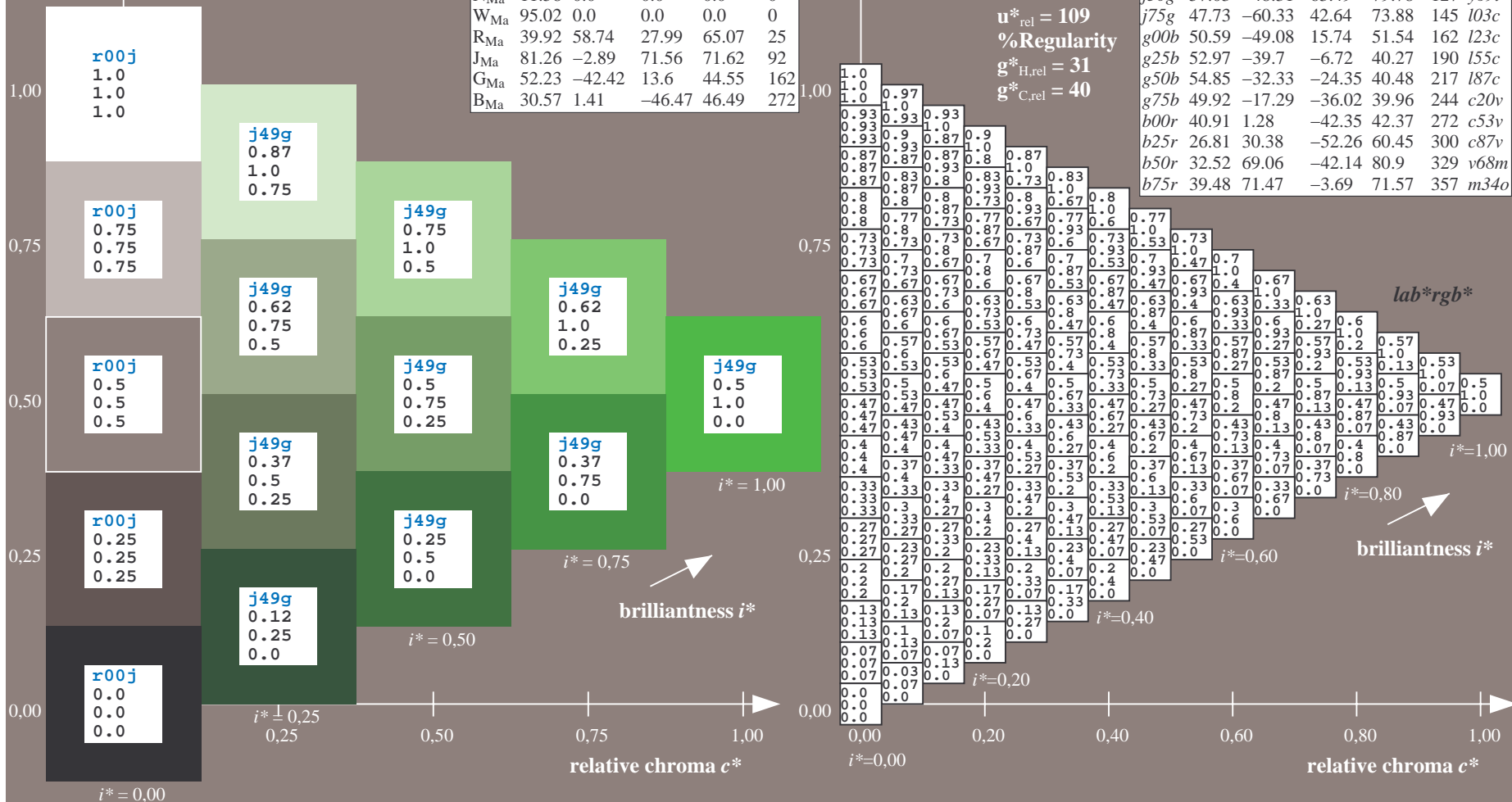
%Gamut

$u^*_{rel} = 109$

%Regularity

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

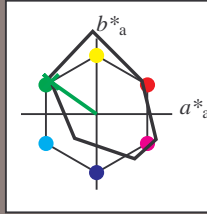
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

$u^*_e = j75g$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j75g$   $u^*_d = l03c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



**FRS12\_95a; adapted (a) CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 48 -60 43

$LAB^*LCH^*_{Ma}$ : 48 74 144

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

$lab^*olv^*_{Ma}$ : 0.0 1.0 0.03

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

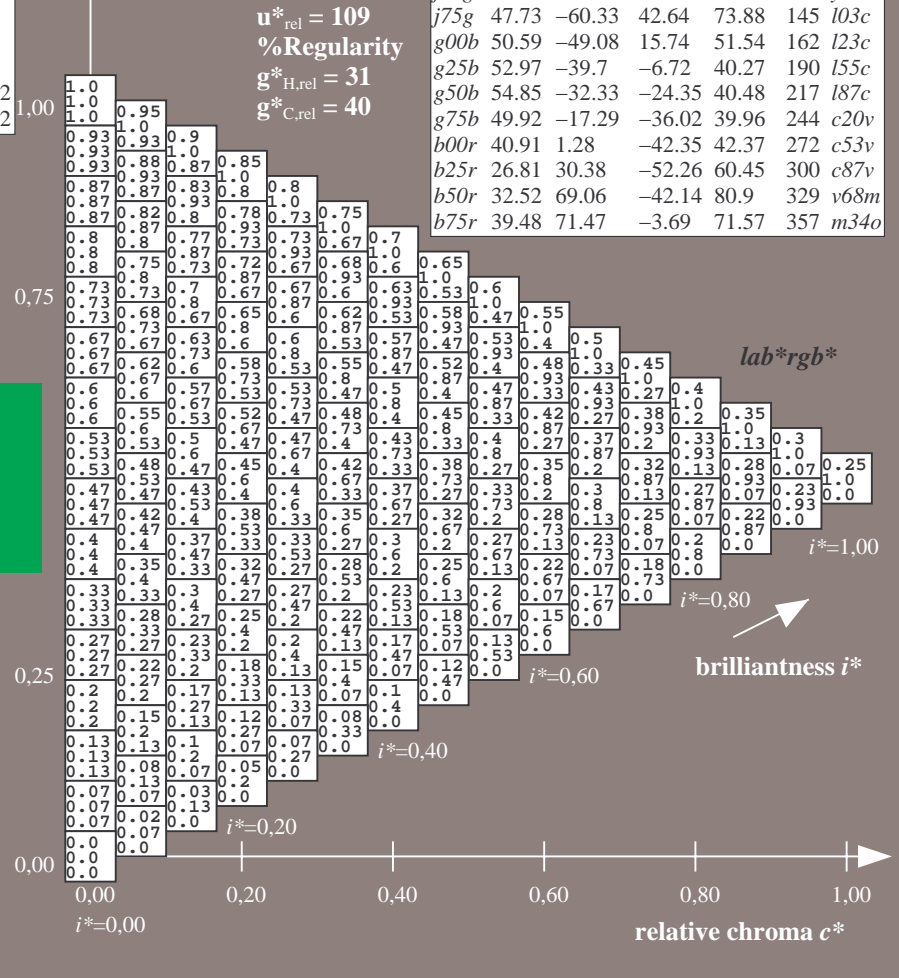
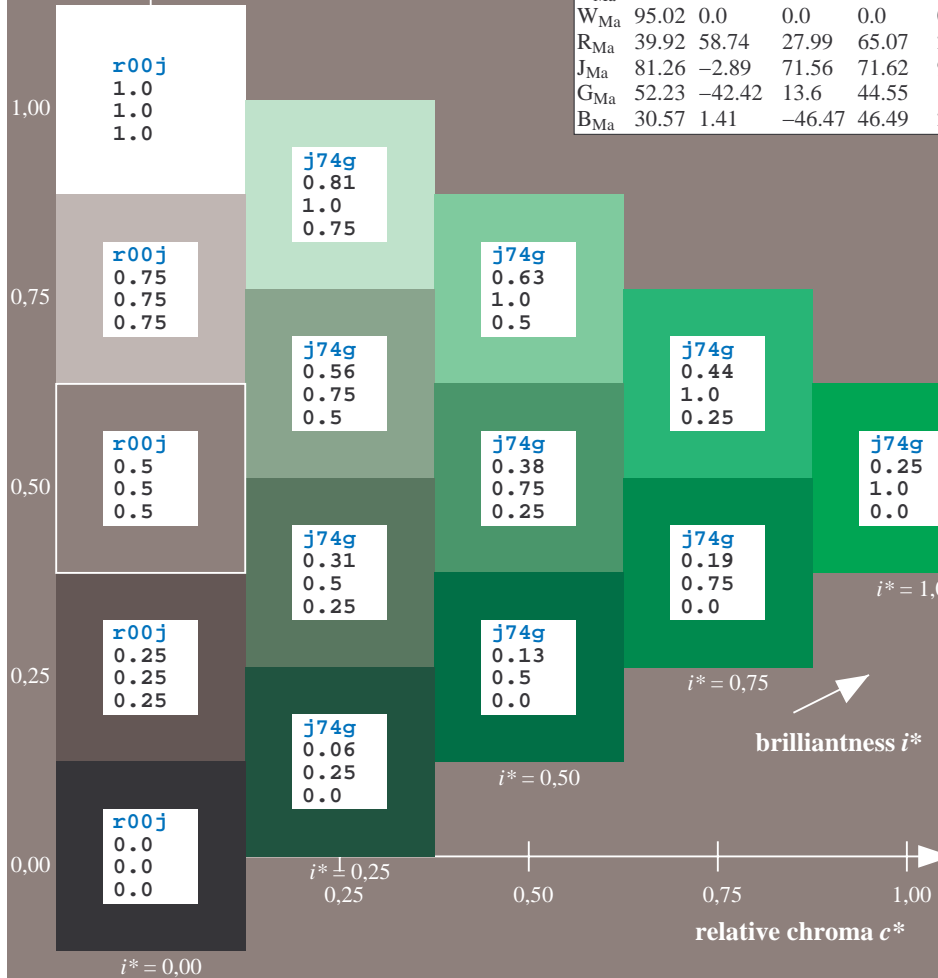
%Gamut

$u^*_{rel} = 109$

%Regularity

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

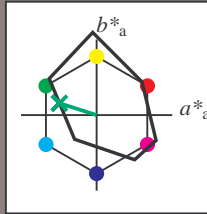
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$   
 $lab^*rgb^*$

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



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 51 -49 16

$LAB^*LCH^*_{Ma}$ : 51 52 162

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

$lab^*olv^*_{Ma}$ : 0.0 1.0 0.23

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	123c
g25b	52.97	-39.7	-6.72	40.27	190	155c
g50b	54.85	-32.33	-24.35	40.48	217	187c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

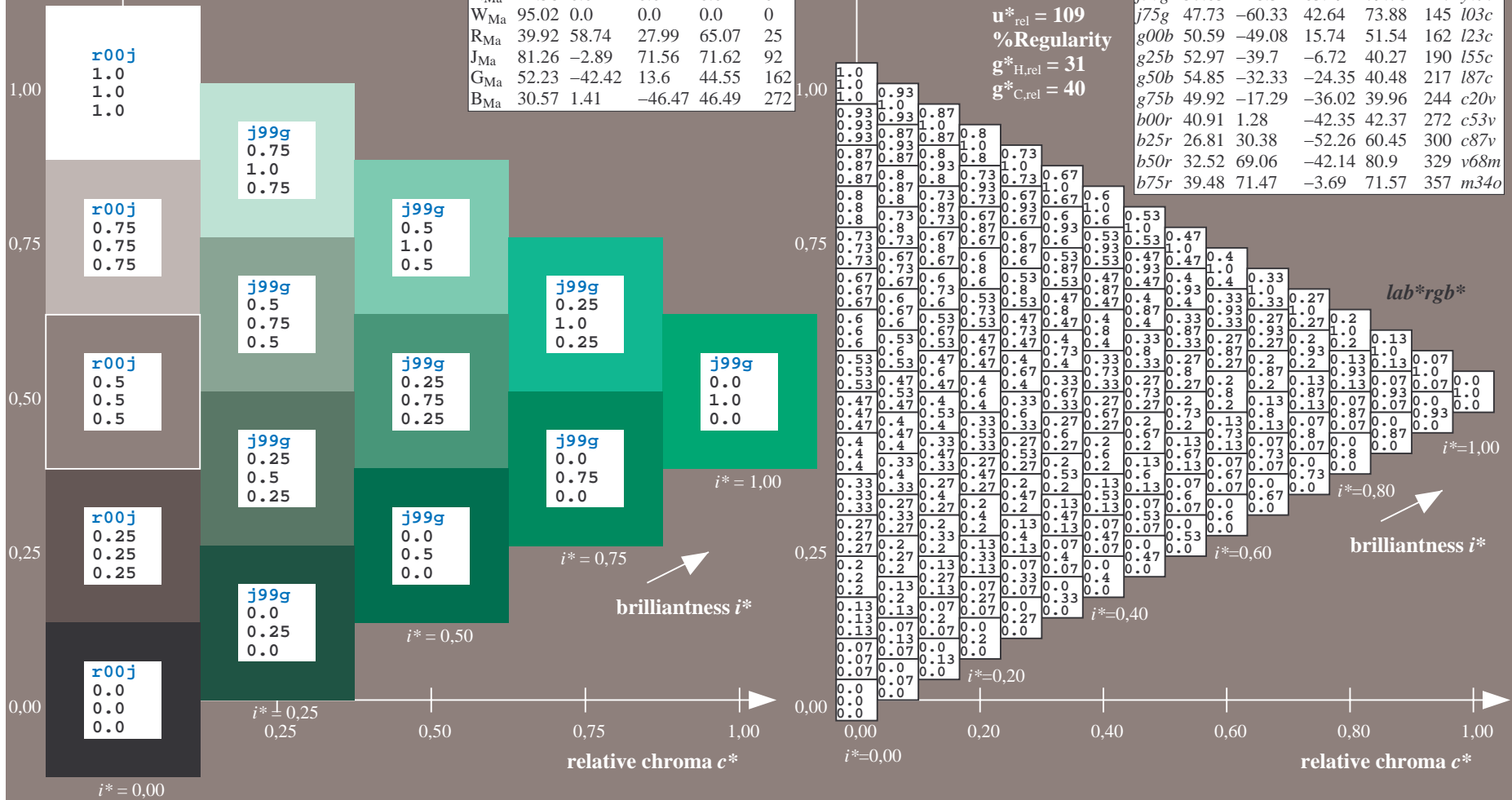
%Gamut

$u^*_{rel} = 109$

%Regularity

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

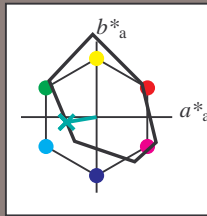
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $lab^*rgb^*$

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



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

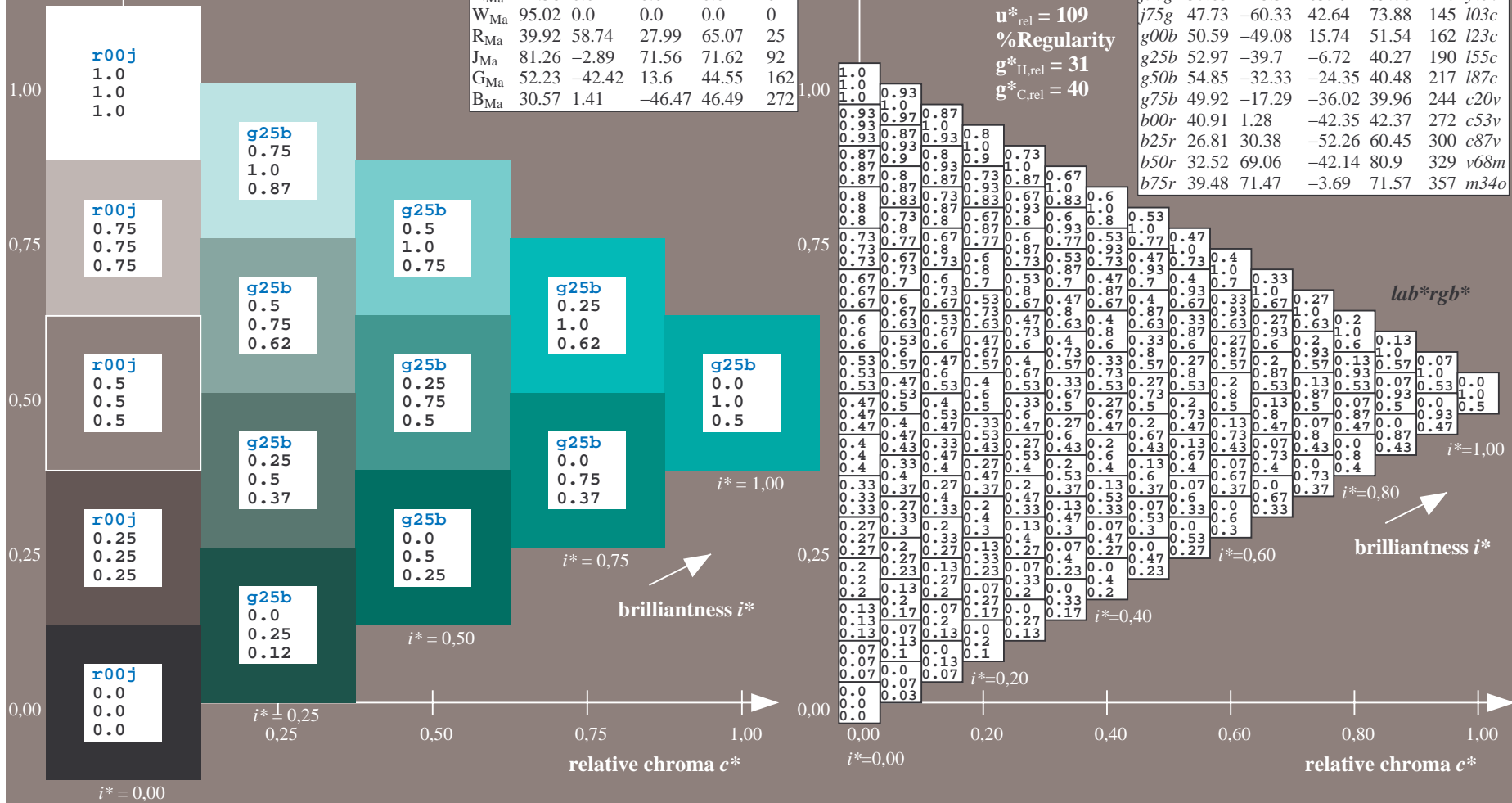
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



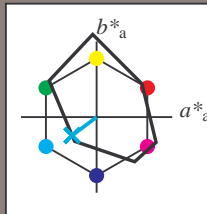


Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $lab^*rgb^*$

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

Hue texts:  
 $u^*_e = g50b$   $u^*_d = l87c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

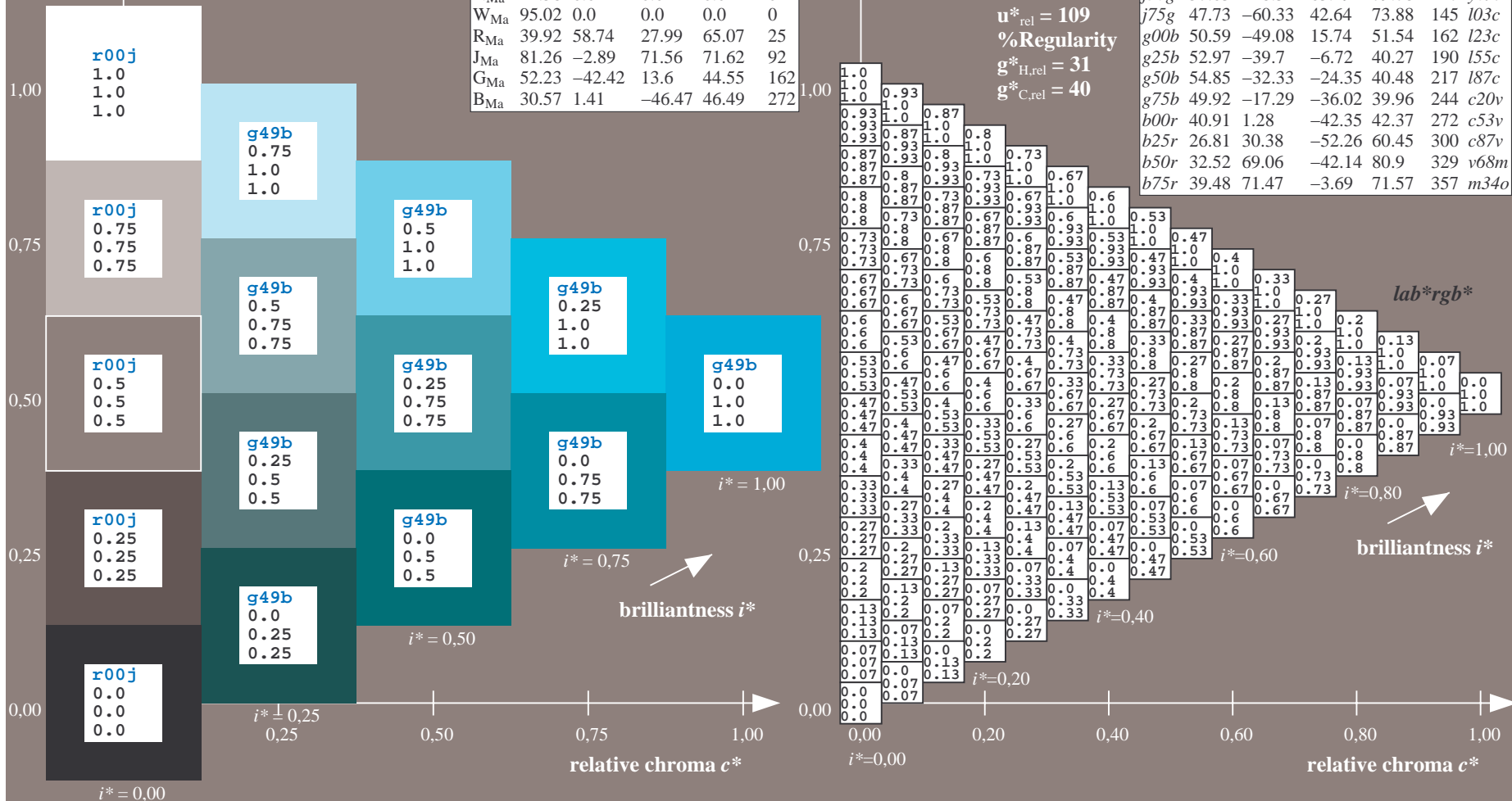
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $lab^*rgb^*$

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

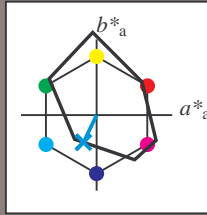
Hue texts:

$u^*_e = g75b$   $u^*_d = c20v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 50 -17 -36$

$LAB^*LCH^*_{Ma}: 50 40 244$

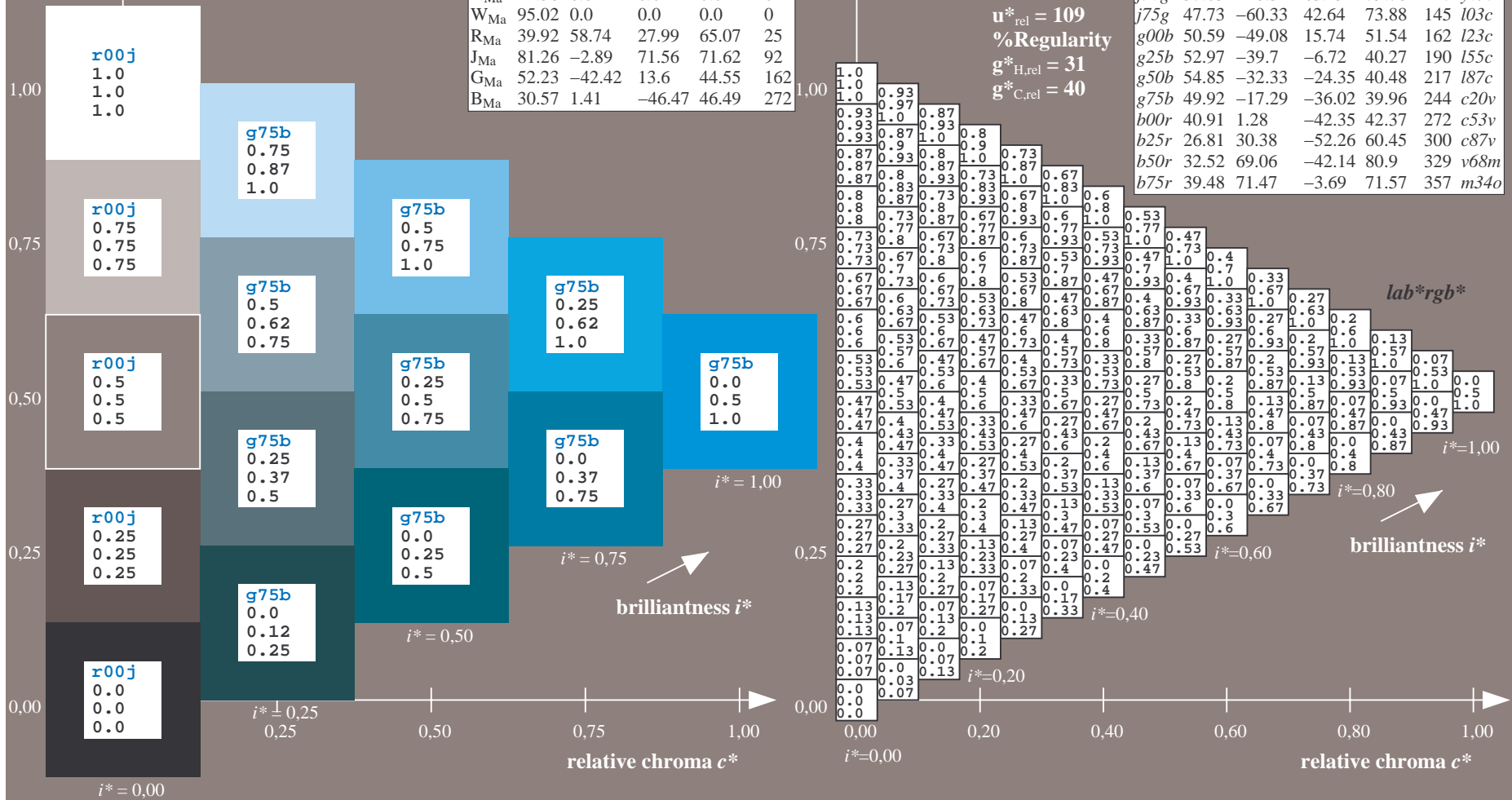
$lab^*rgb^*_{Ma}: 0.0 0.5 1.0$

$lab^*olv^*_{Ma}: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$

data for any colour:

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

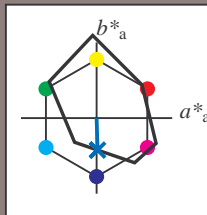
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 41 1 -42

$LAB^*LCH^*_{Ma}$ : 41 42 271

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

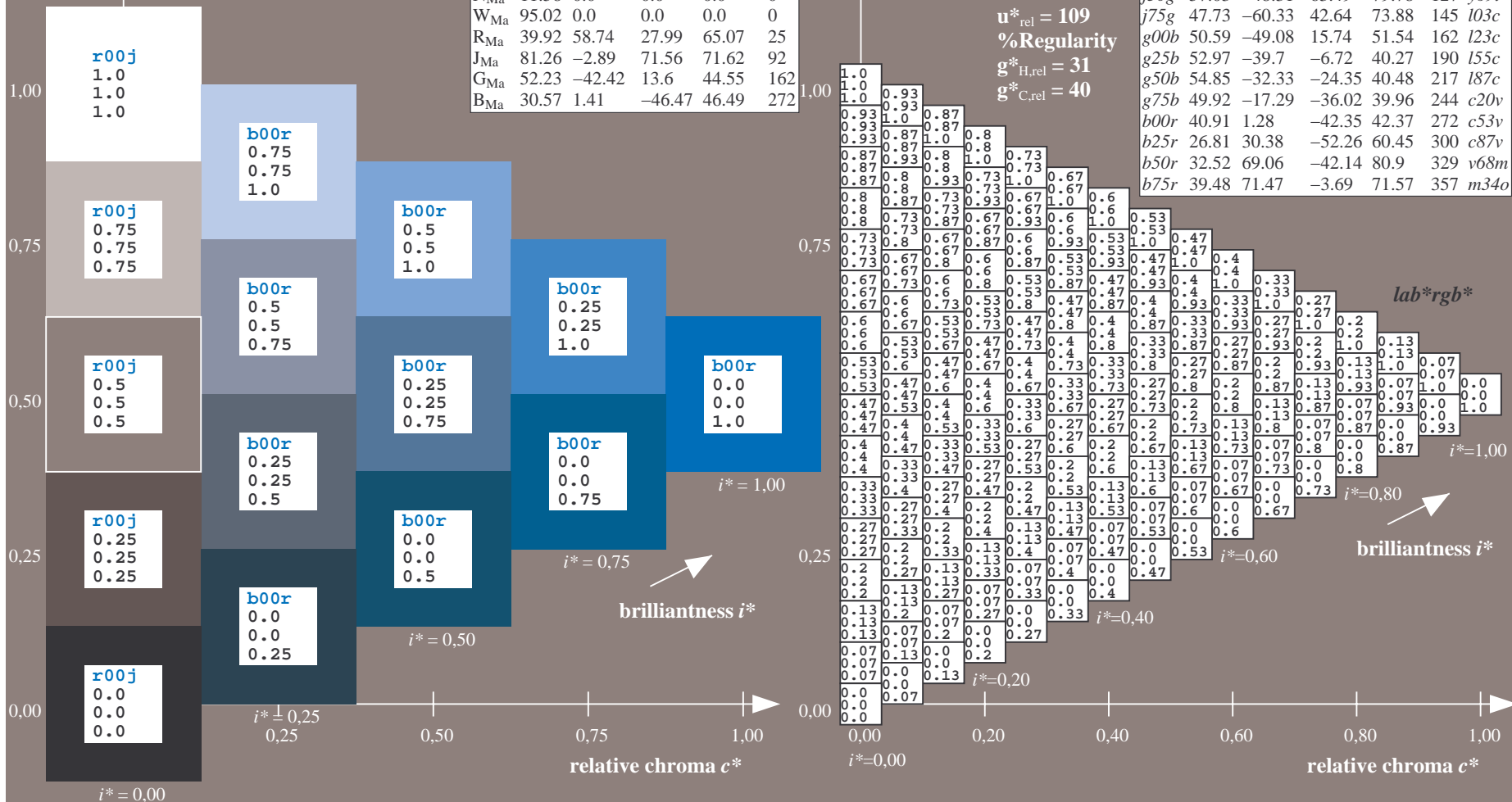
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

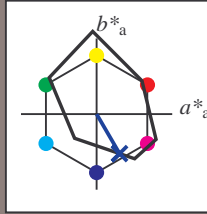




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$   
 data for any colour:

$u^*_e = b25r$   
 $lab^*rgb^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = b25r$   $u^*_d = c87v$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 27\ 30\ -52$

$LAB^*LCH^*_{Ma}: 27\ 60\ 300$

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

$lab^*olv^*_{Ma}: 0.0\ 0.12\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

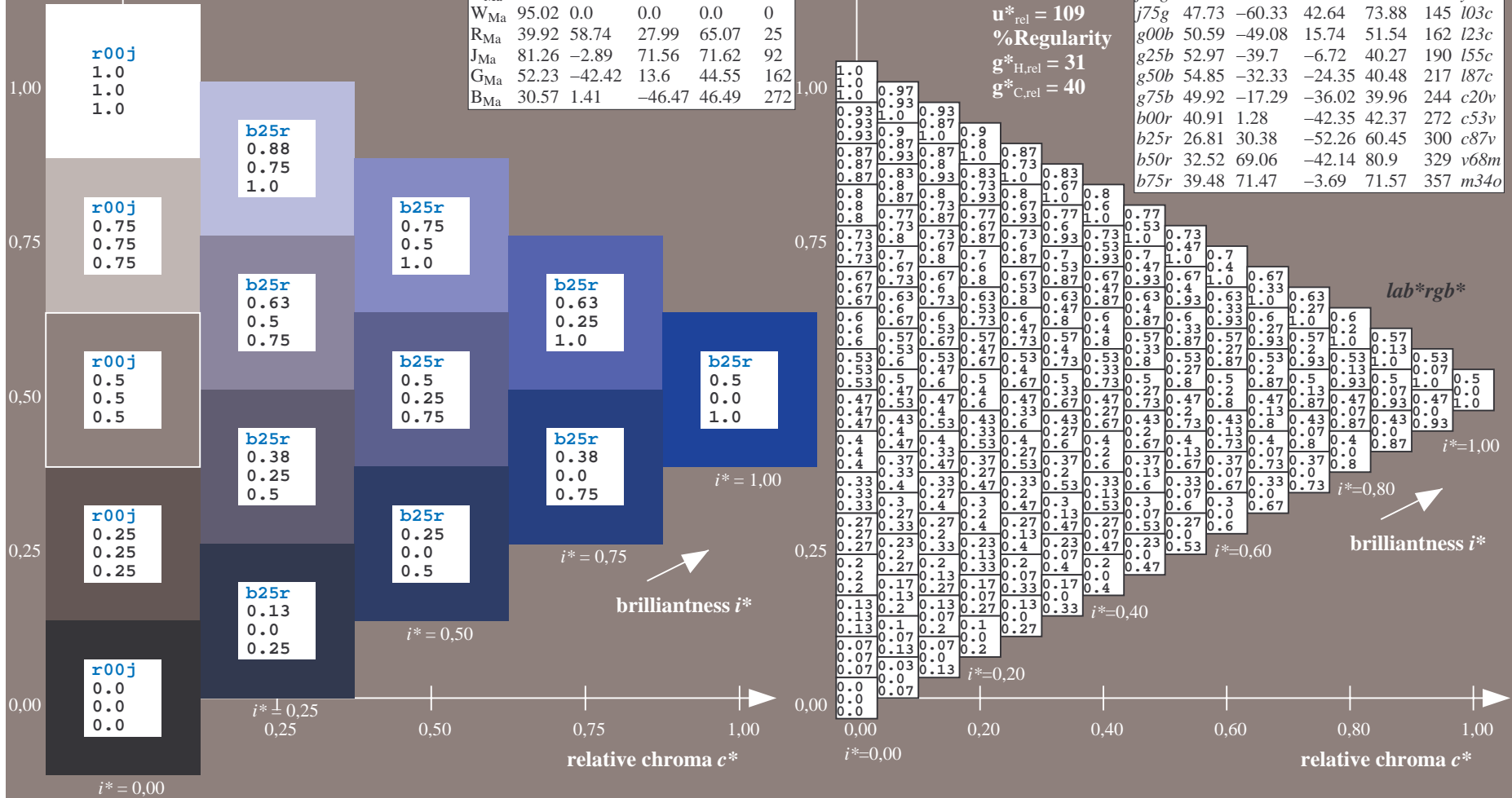
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$   
 data for any colour:

$u^*_e = b50r$   
 $lab^*rgb^*$

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

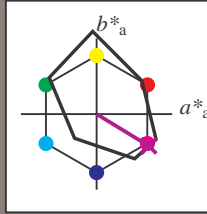
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 33 69 -42

$LAB^*LCH^*_{Ma}$ : 33 81 328

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

$lab^*olv^*_{Ma}$ : 0.69 0.0 1.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

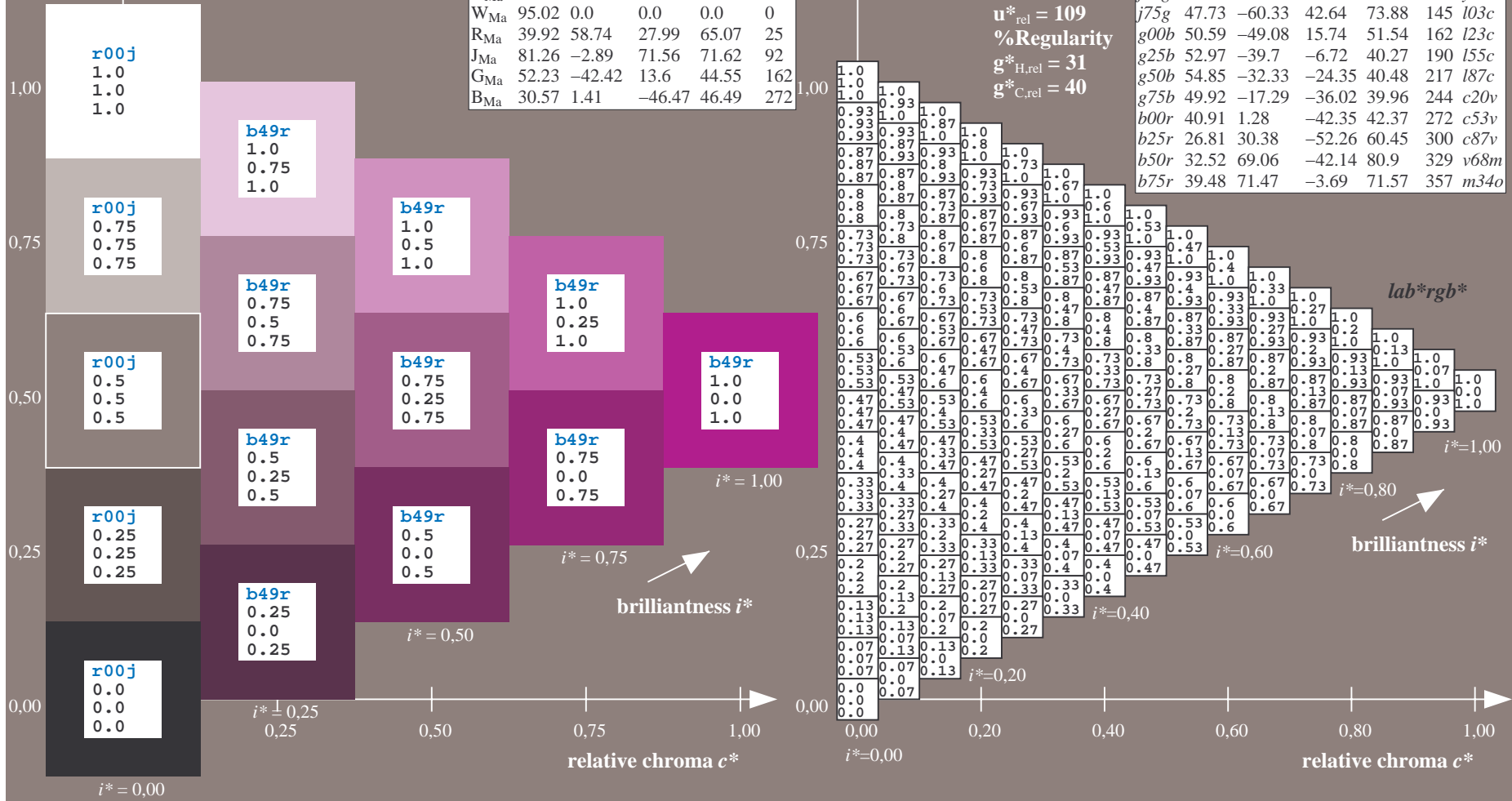
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$   
 $lab^*rgb^*$

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

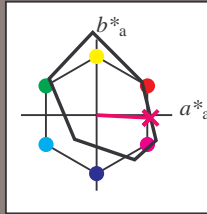
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 39\ 71\ -4$

$LAB^*LCH^*_{Ma}: 39\ 72\ 357$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

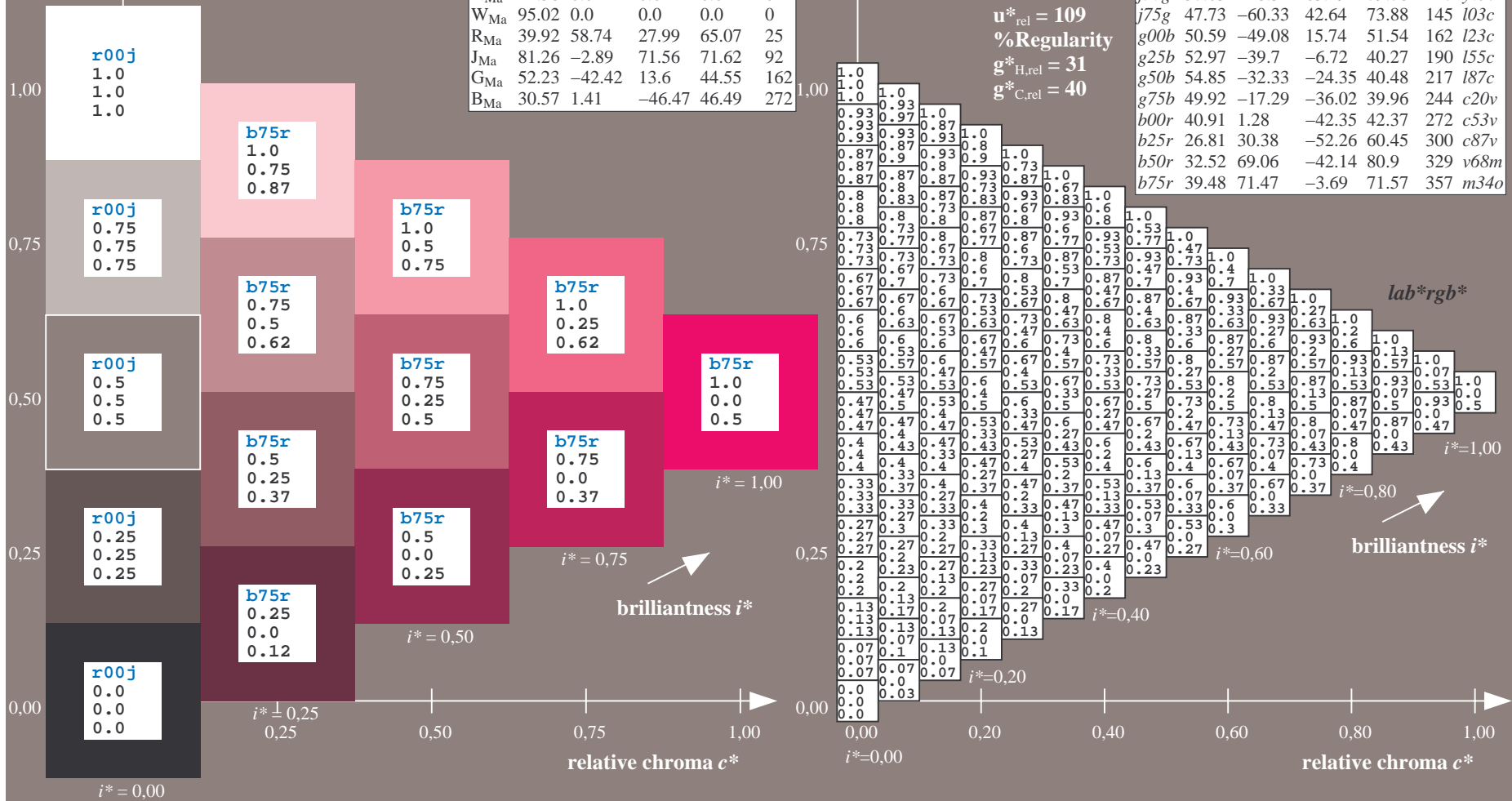
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

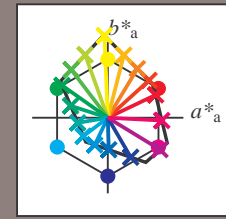




Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

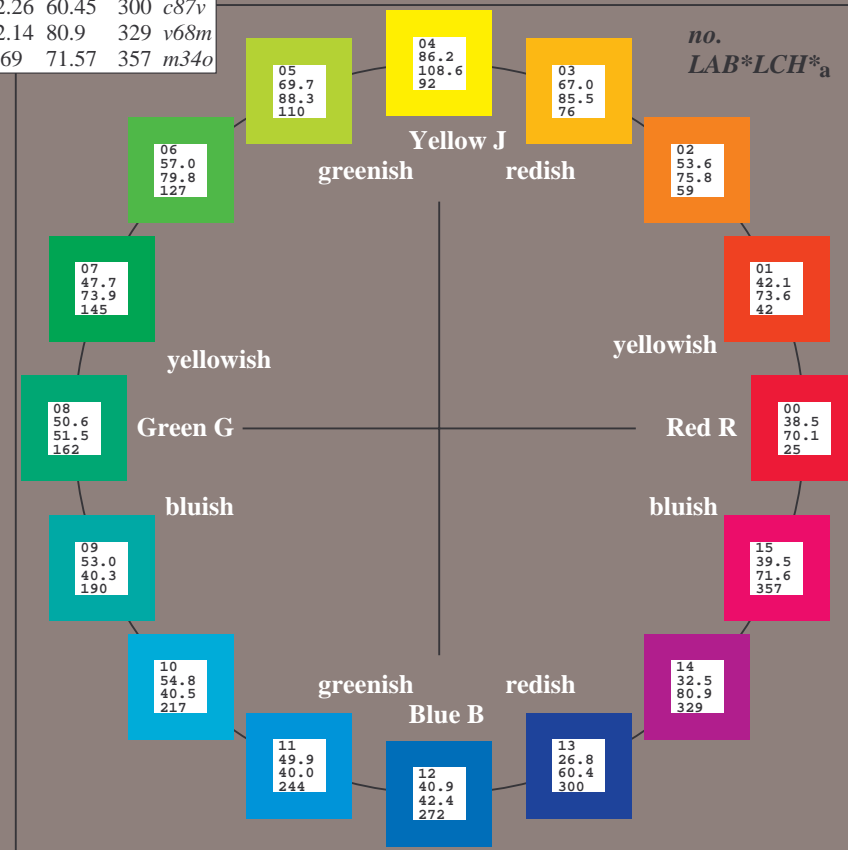
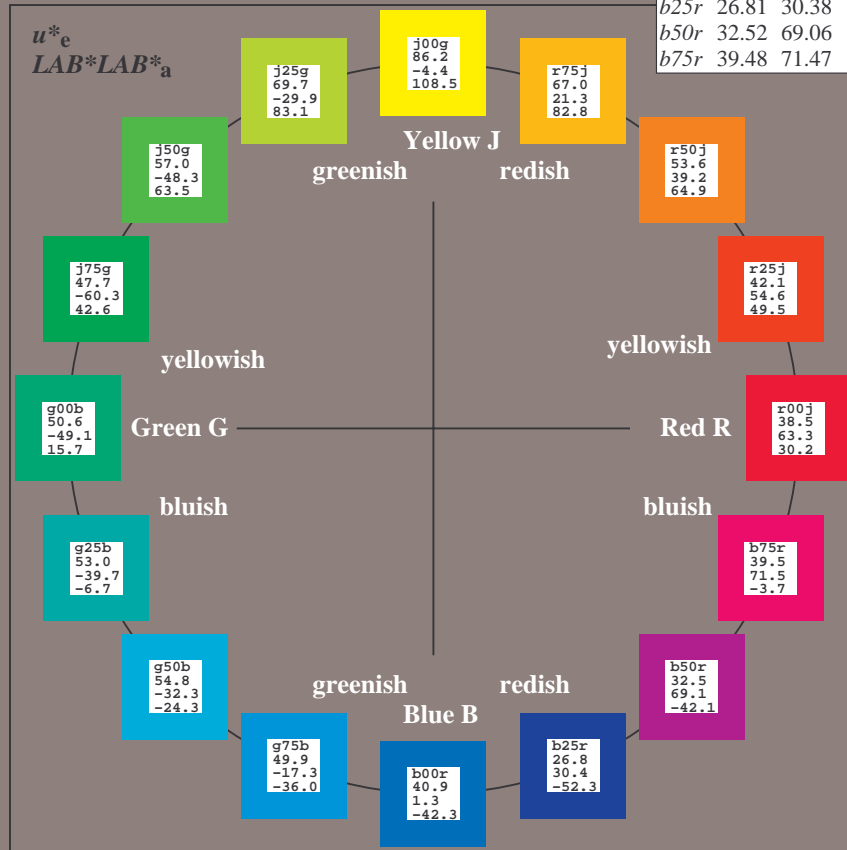
$u^*_e$  and number *no.* = 00 .. 15  
 elementary hue text:  
 $u^*_e = 16$  hues *r00j, r25j, ..., b75r*  
 contrast reduction factor:  
 $c_R = 1.0$

FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
<i>r00j</i>	38.47	63.32	30.17	70.15	25	<i>m81o</i>
<i>r25j</i>	42.12	54.56	49.45	73.64	42	<i>o10y</i>
<i>r50j</i>	53.64	39.15	64.89	75.79	59	<i>o40y</i>
<i>r75j</i>	67.01	21.26	82.83	85.52	76	<i>o69y</i>
<i>j00g</i>	86.18	-4.38	108.53	108.62	92	<i>o98y</i>
<i>j25g</i>	69.73	-29.89	83.06	88.28	110	<i>y34l</i>
<i>j50g</i>	57.03	-48.31	63.49	79.78	127	<i>y69l</i>
<i>j75g</i>	47.73	-60.33	42.64	73.88	145	<i>l03c</i>
<i>g00b</i>	50.59	-49.08	15.74	51.54	162	<i>l23c</i>
<i>g25b</i>	52.97	-39.7	-6.72	40.27	190	<i>l55c</i>
<i>g50b</i>	54.85	-32.33	-24.35	40.48	217	<i>l87c</i>
<i>g75b</i>	49.92	-17.29	-36.02	39.96	244	<i>c20v</i>
<i>b00r</i>	40.91	1.28	-42.35	42.37	272	<i>c53v</i>
<i>b25r</i>	26.81	30.38	-52.26	60.45	300	<i>c87v</i>
<i>b50r</i>	32.52	69.06	-42.14	80.9	329	<i>v68m</i>
<i>b75r</i>	39.48	71.47	-3.69	71.57	357	<i>m34o</i>



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

FRS12_95a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

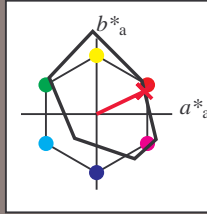
Hue texts:

$u^*_e = r00j$   $u^*_d = m81o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



**FRS12\_95a; adapted (a) CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma$ : 38 63 30

$LAB^*LCH^*_Ma$ : 38 70 25

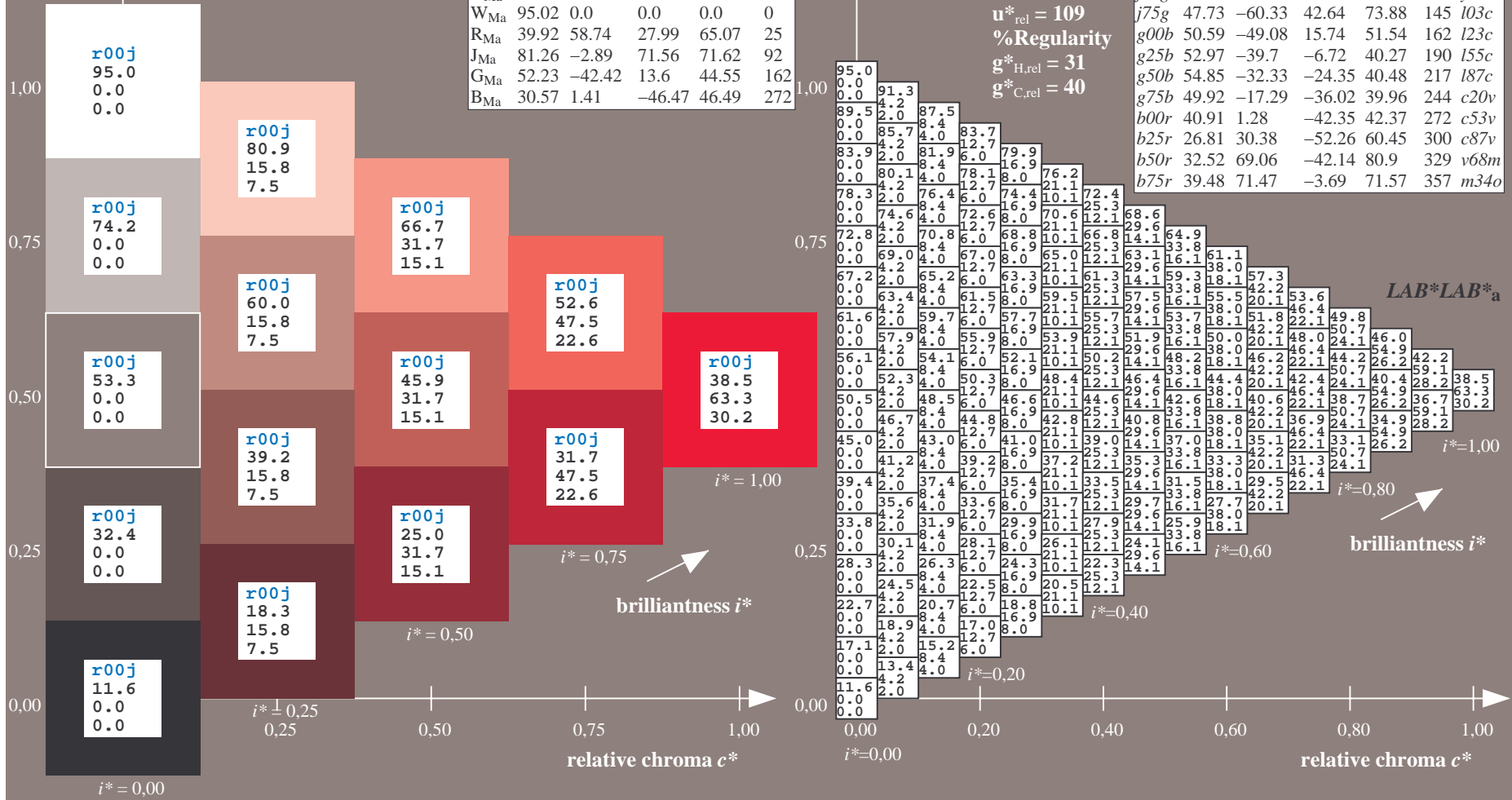
$lab^*rgb^*_Ma$ : 1.0 0.0 0.0

$lab^*olv^*_Ma$ : 1.0 0.0 0.18

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	i03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

$LAB^*LAB^*_a$

$i^*=1,00$

$i^*=0,80$

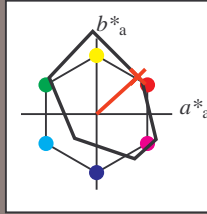
$i^*=0,60$

$i^*=0,40$

$i^*=0,20$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r25j$   $u^*_d = o10y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma$ : 42 55 49

$LAB^*LCH^*_Ma$ : 42 74 42

$lab^*rgb^*_Ma$ : 1.0 0.25 0.0

$lab^*olv^*_Ma$ : 1.0 0.11 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

$u^*_e = r25j$   
 $LAB^*LAB^*_a$

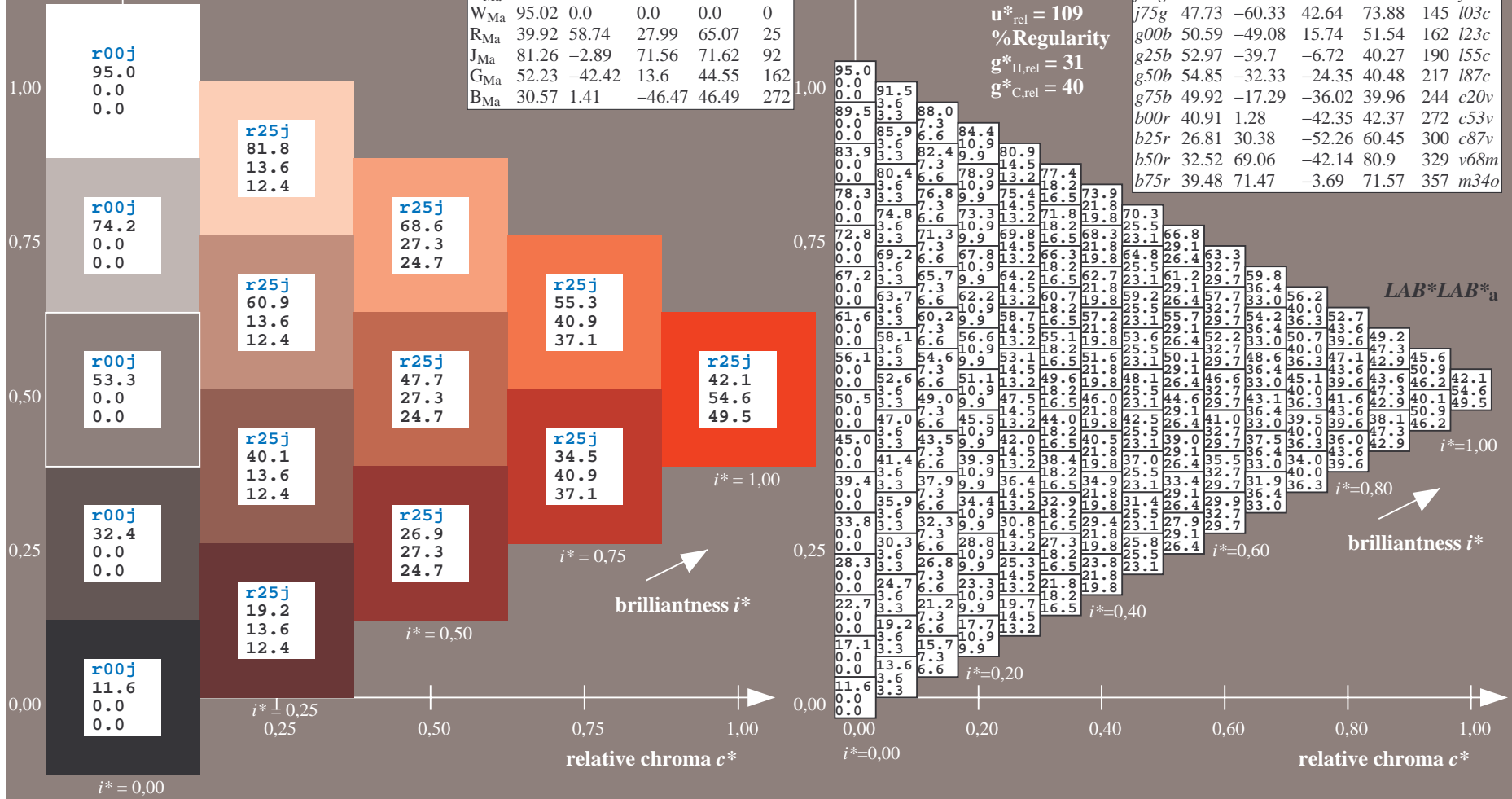
% Gamut

$u^*_{rel} = 109$

% Regularity

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

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

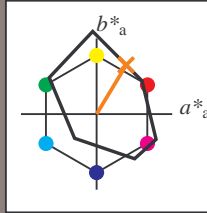




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$   
 data for any colour:

$u^*_e = r50j$   
 $LAB^*LAB^*_a$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r50j$   $u^*_d = o40y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 54\ 39\ 65$

$LAB^*LCH^*_Ma: 54\ 76\ 58$

$lab^*rgb^*_Ma: 1.0\ 0.5\ 0.0$

$lab^*olv^*_Ma: 1.0\ 0.4\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

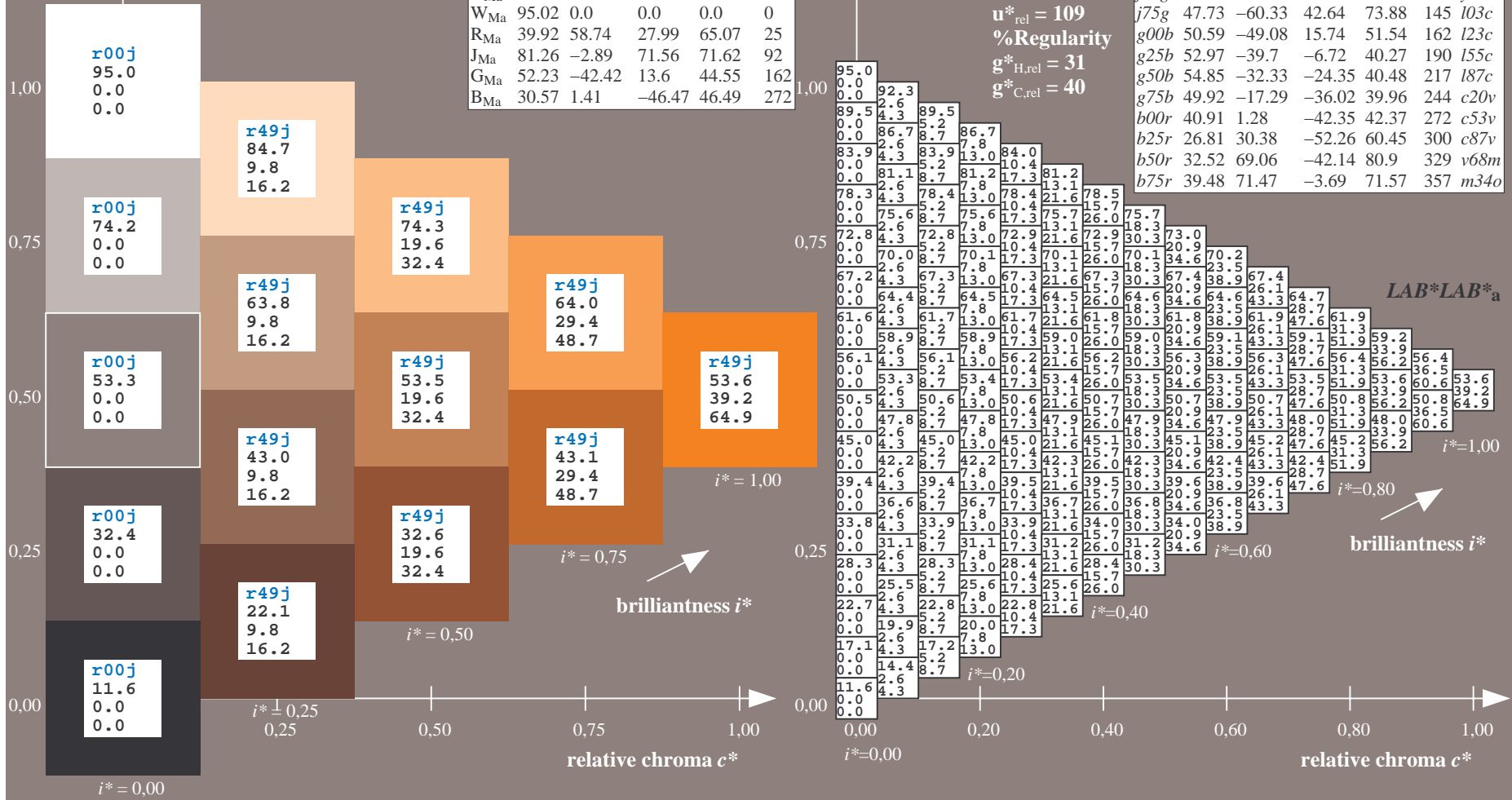
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$   
 $LAB^*LAB^*_a$

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

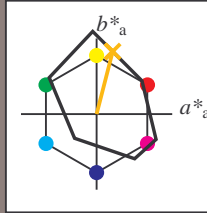
Hue texts:

$u^*_e = r75j$   $u^*_d = o69y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 67\ 21\ 83$

$LAB^*LCH^*_Ma: 67\ 86\ 75$

$lab^*rgb^*_Ma: 1.0\ 0.75\ 0.0$

$lab^*olv^*_Ma: 1.0\ 0.7\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

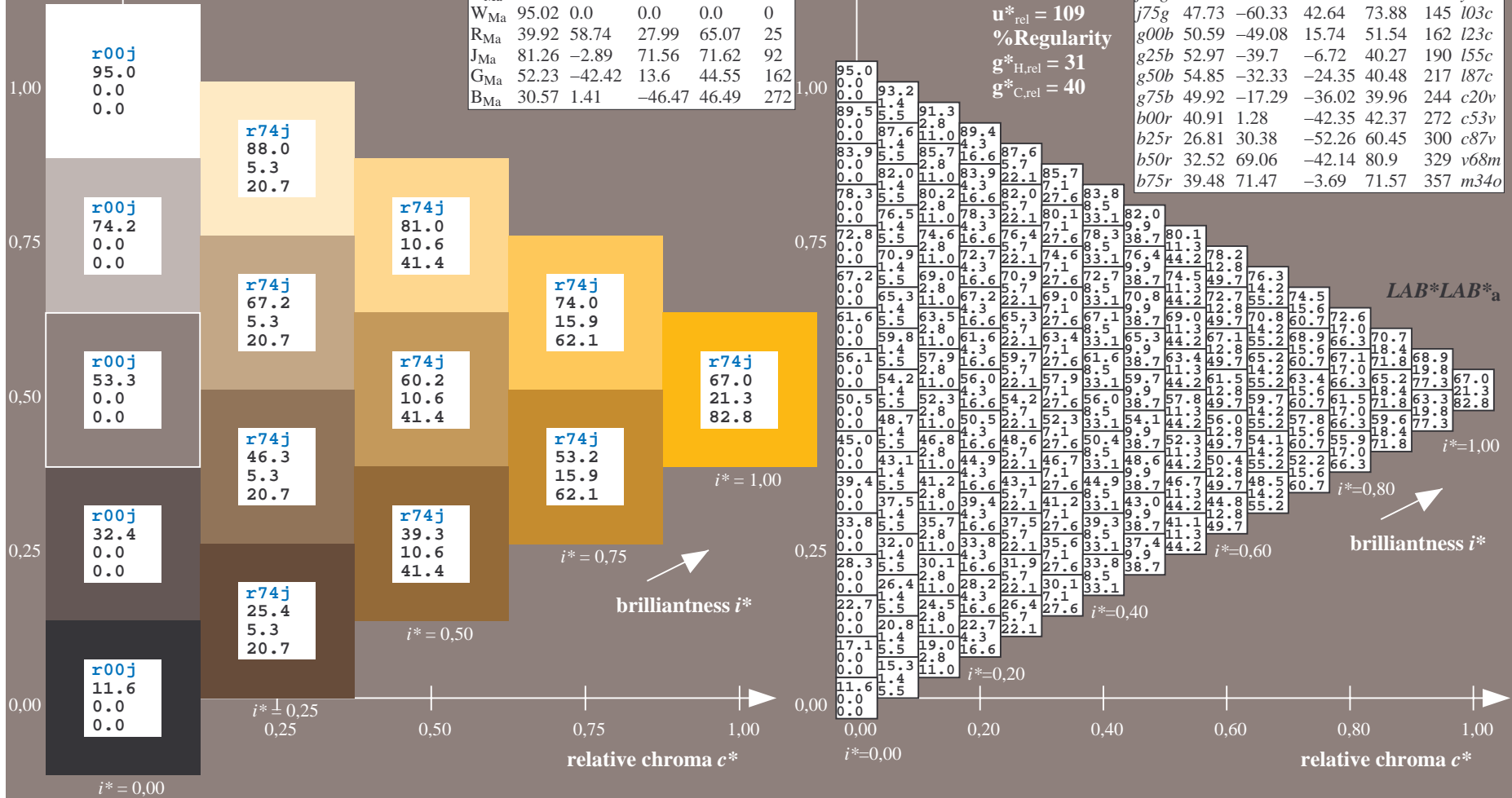
%Gamut

$u^*_{rel} = 109$

%Regularity

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

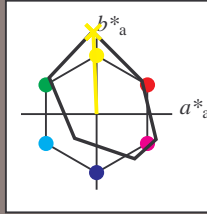
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$   
 data for any colour:

$u^*_e = j00g$   
 $LAB^*LAB^*_a$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j00g$   $u^*_d = o98y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma$ : 86 -4 109

$LAB^*LCH^*_Ma$ : 86 109 92

$lab^*rgb^*_Ma$ : 1.0 1.0 0.0

$lab^*olv^*_Ma$ : 1.0 0.99 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

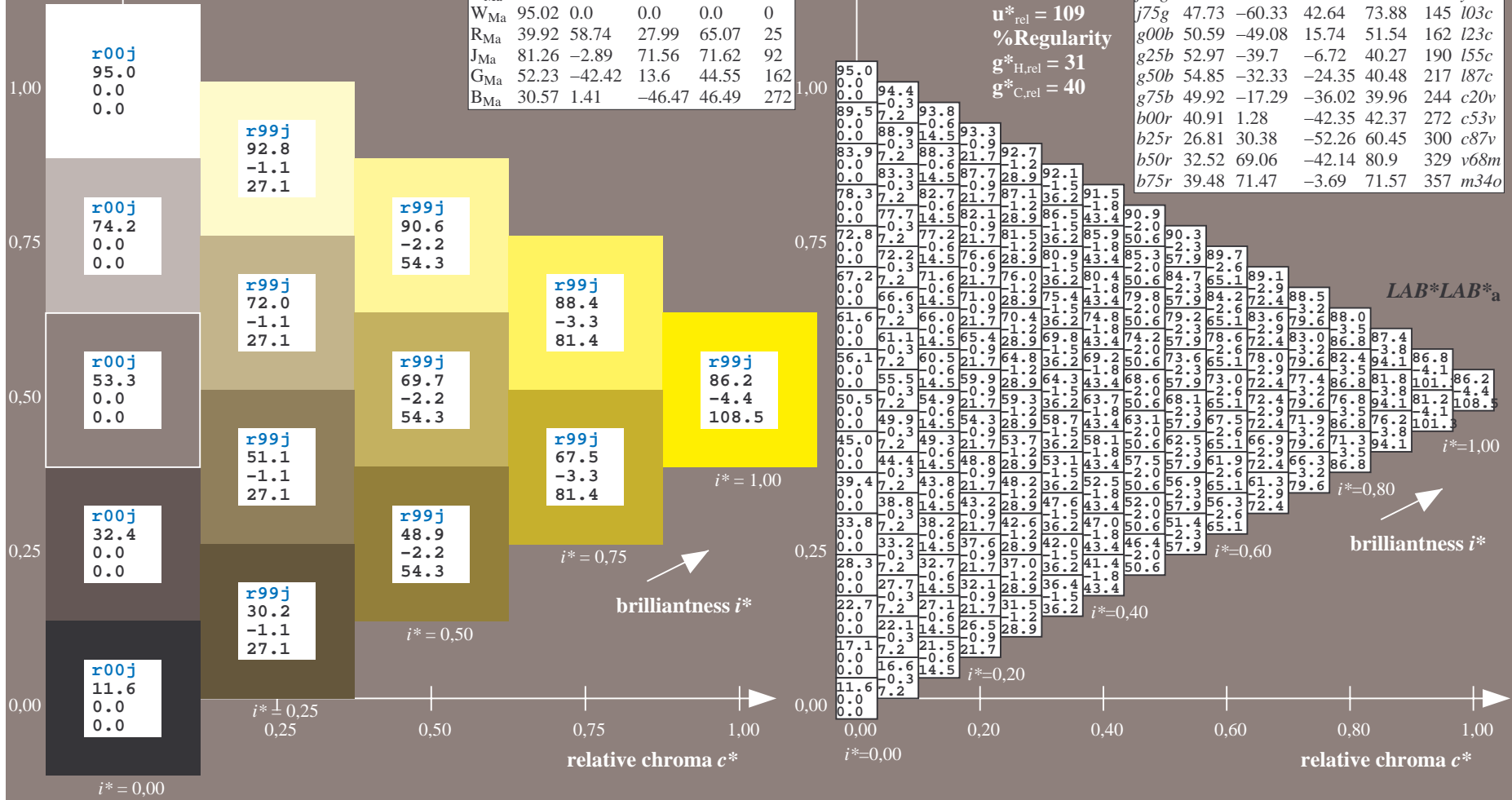
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $LAB^*LAB^*_a$

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

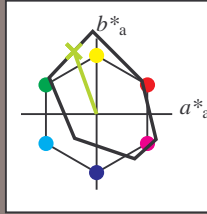
Hue texts:

$u^*_e = j25g$   $u^*_d = y34l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 70 -30 83$

$LAB^*LCH^*_Ma: 70 88 109$

$lab^*rgb^*_Ma: 0.75 1.0 0.0$

$lab^*olv^*_Ma: 0.66 1.0 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

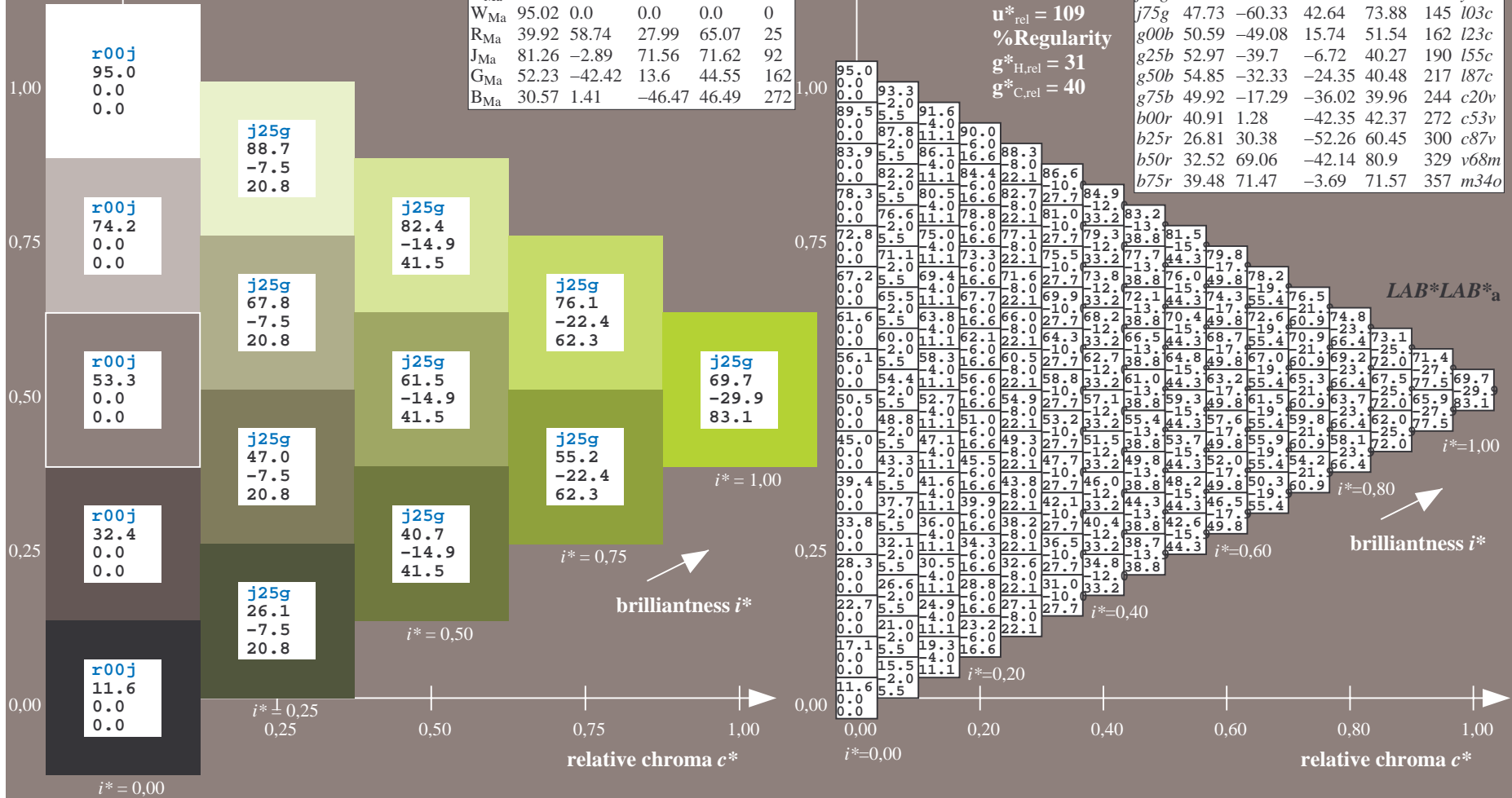
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$

$u^*_e = j50g$   
LAB\*LAB\*a

data for any colour:

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

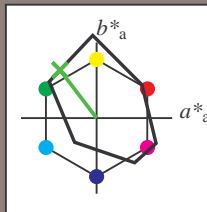
Hue texts:

$u^*_e = j50g$   $u^*_d = y69l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 57 -48 63

LAB\*LCH\*<sub>Ma</sub>: 57 80 127

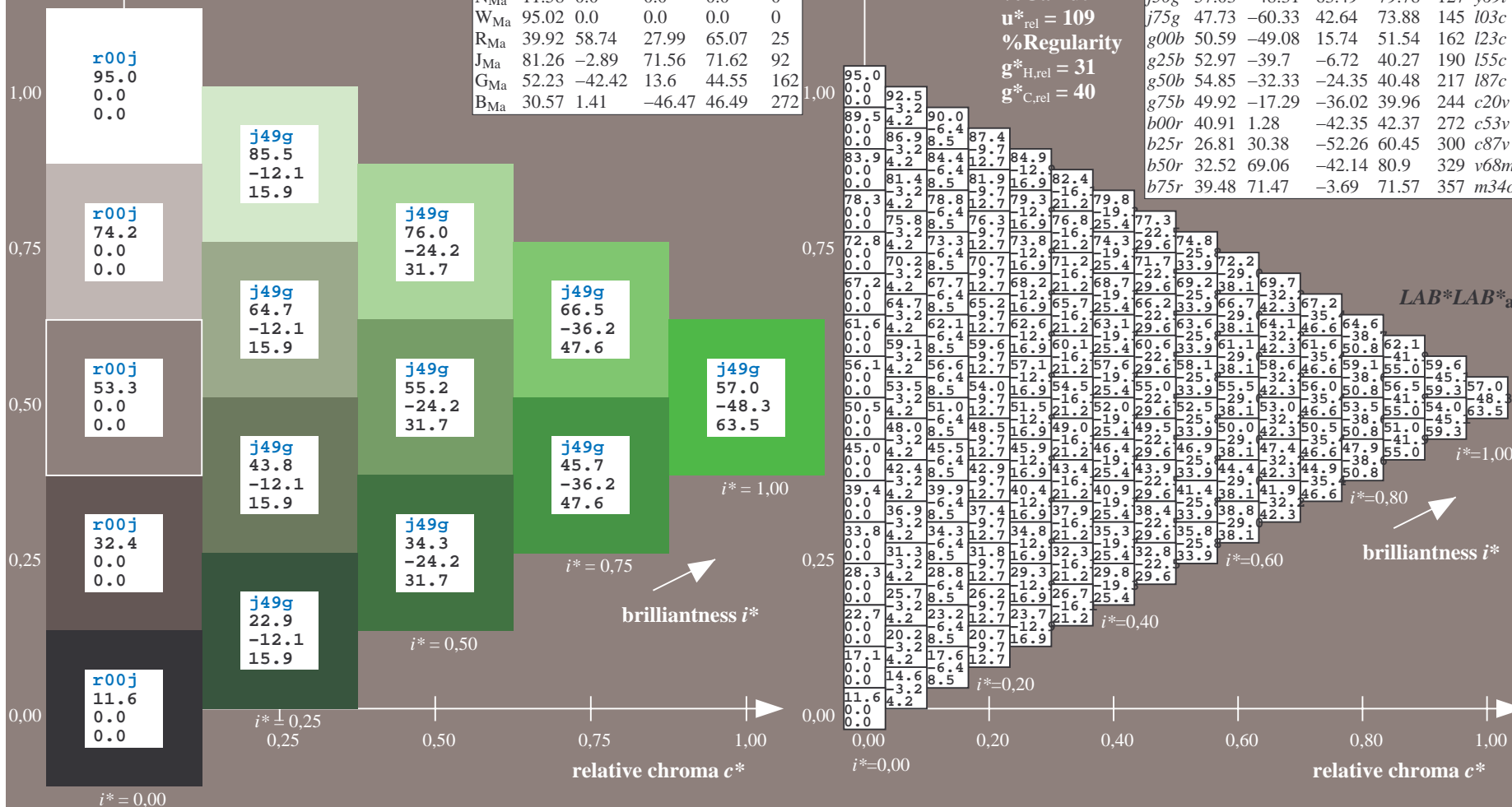
lab\*rgb\*<sub>Ma</sub>: 0.5 1.0 0.0

lab\*olv\*<sub>Ma</sub>: 0.3 1.0 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

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

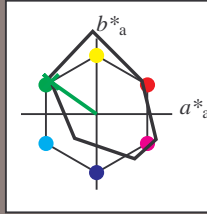
Hue texts:

$u^*_e = j75g$   $u^*_d = l03c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

$u^*_e = j75g$   
 $LAB^*LAB^*_a$

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 48 -60 43$

$LAB^*LCH^*_Ma: 48 74 144$

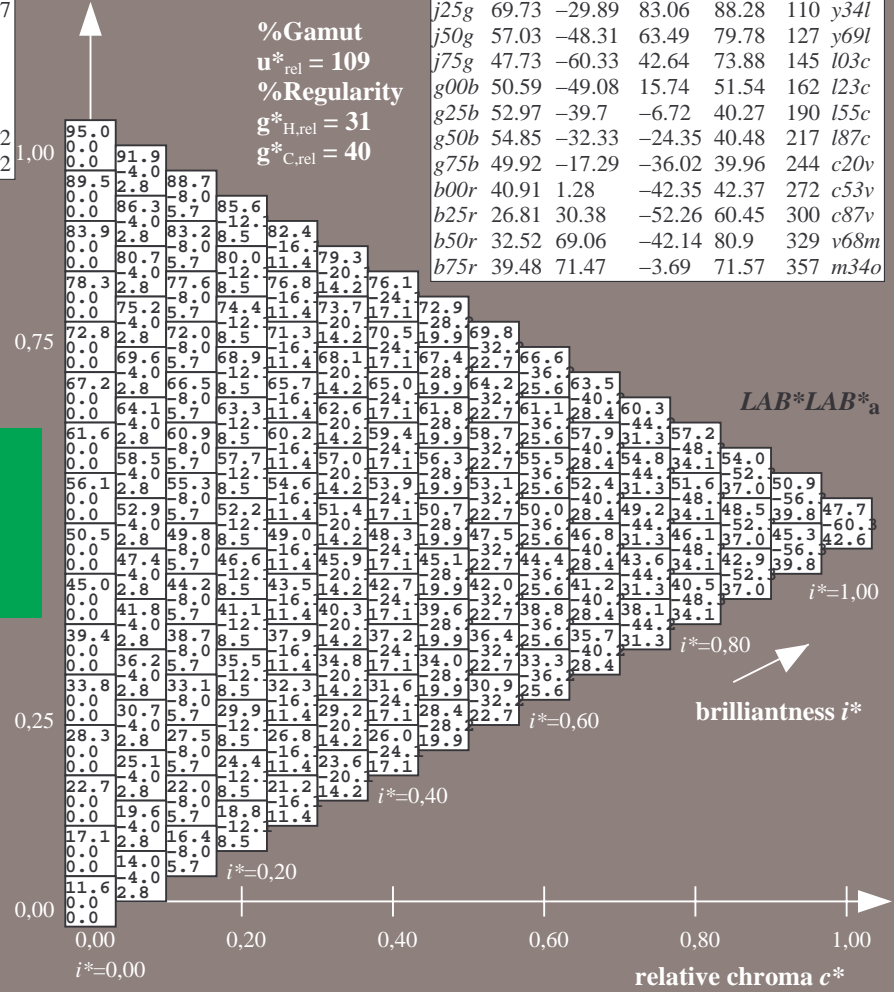
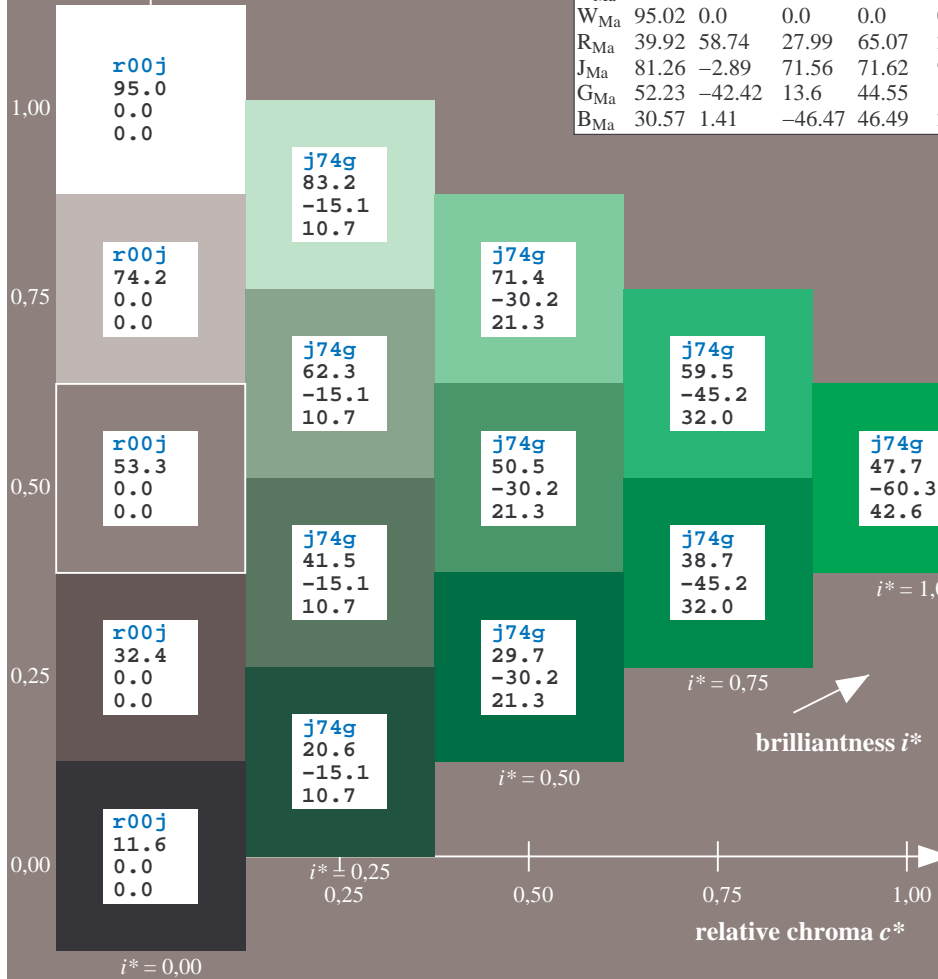
$lab^*rgb^*_Ma: 0.25 1.0 0.0$

$lab^*olv^*_Ma: 0.0 1.0 0.03$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

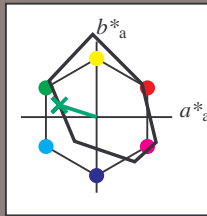
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$

$u^*_e = g00b$   
 $LAB^*LAB^*_a$

data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$   
Hue texts:  
 $u^*_e = g00b$   $u^*_d = l23c$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

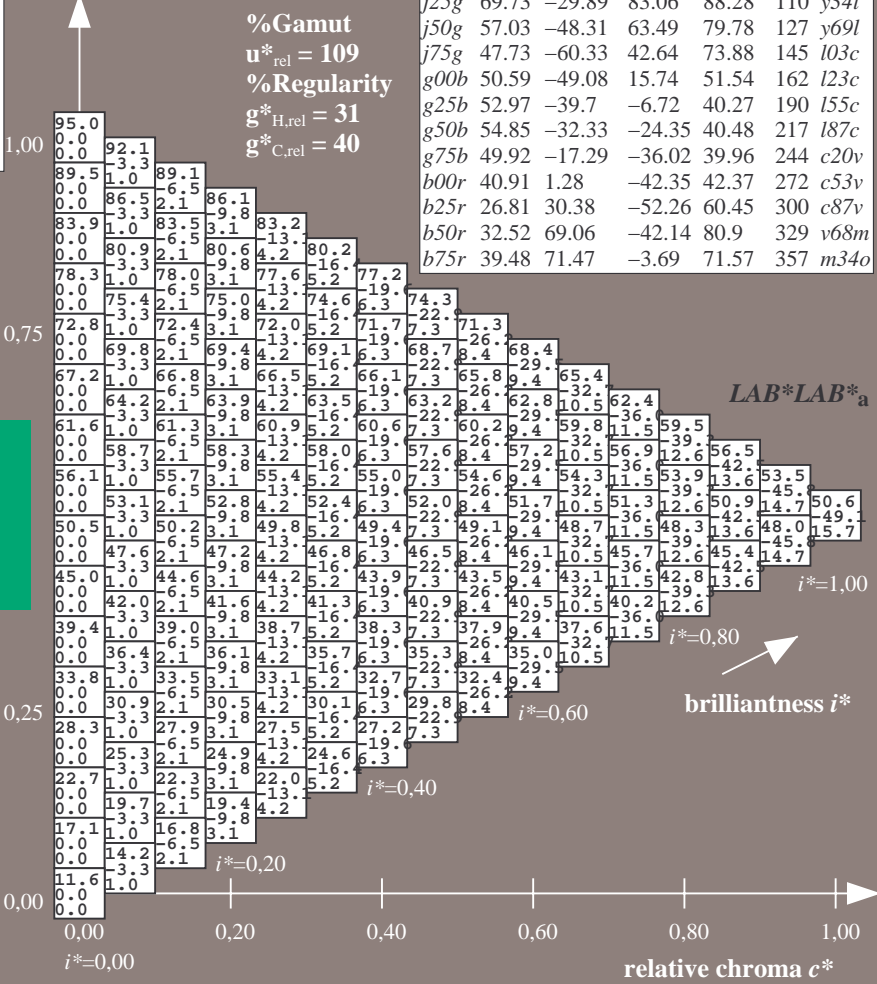
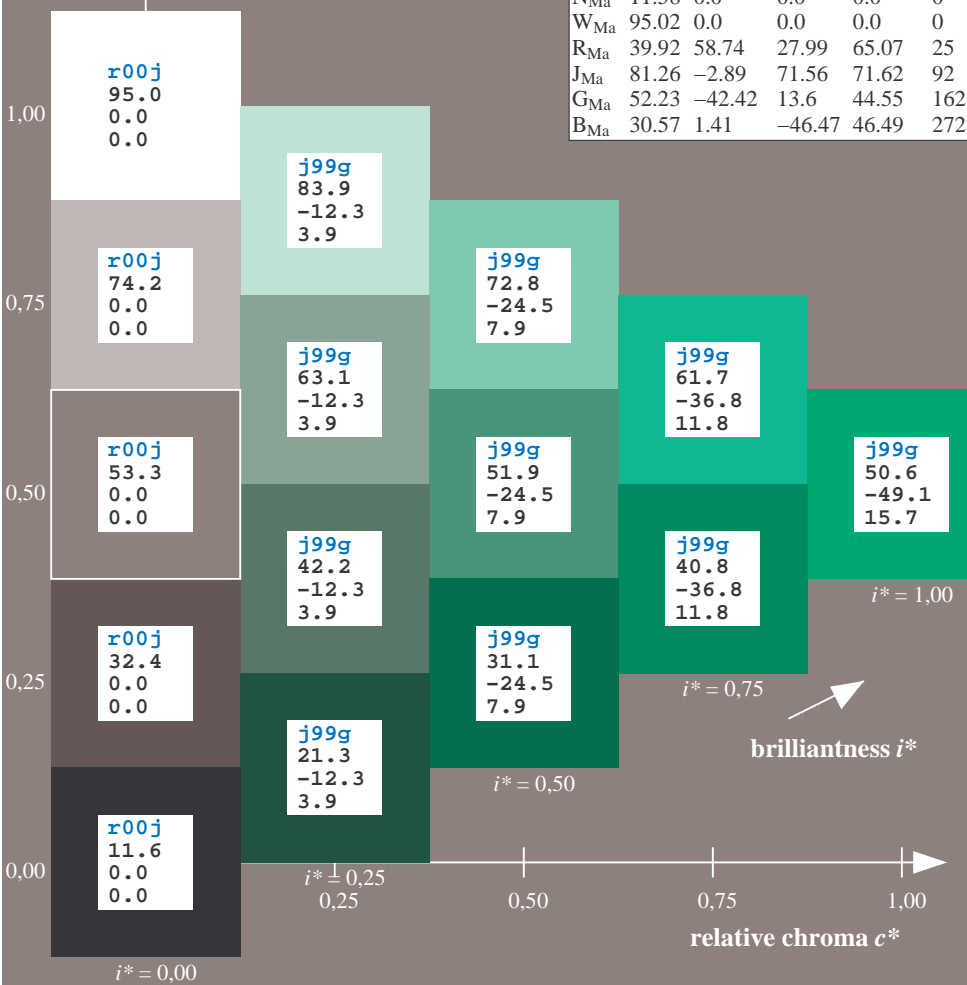
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 51 -49 16$   
 $LAB^*LCH^*_Ma: 51 52 162$   
 $lab^*rgb^*_Ma: 0.0 1.0 0.0$   
 $lab^*olv^*_Ma: 0.0 1.0 0.23$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



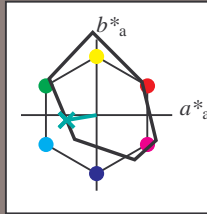
%Gamut  
 $u^*_{rel} = 109$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $LAB^*LAB^*_a$

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



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 53 -40 -7$

$LAB^*LCH^*_Ma: 53 40 189$

$lab^*rgb^*_Ma: 0.0 1.0 0.5$

$lab^*olv^*_Ma: 0.0 1.0 0.55$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

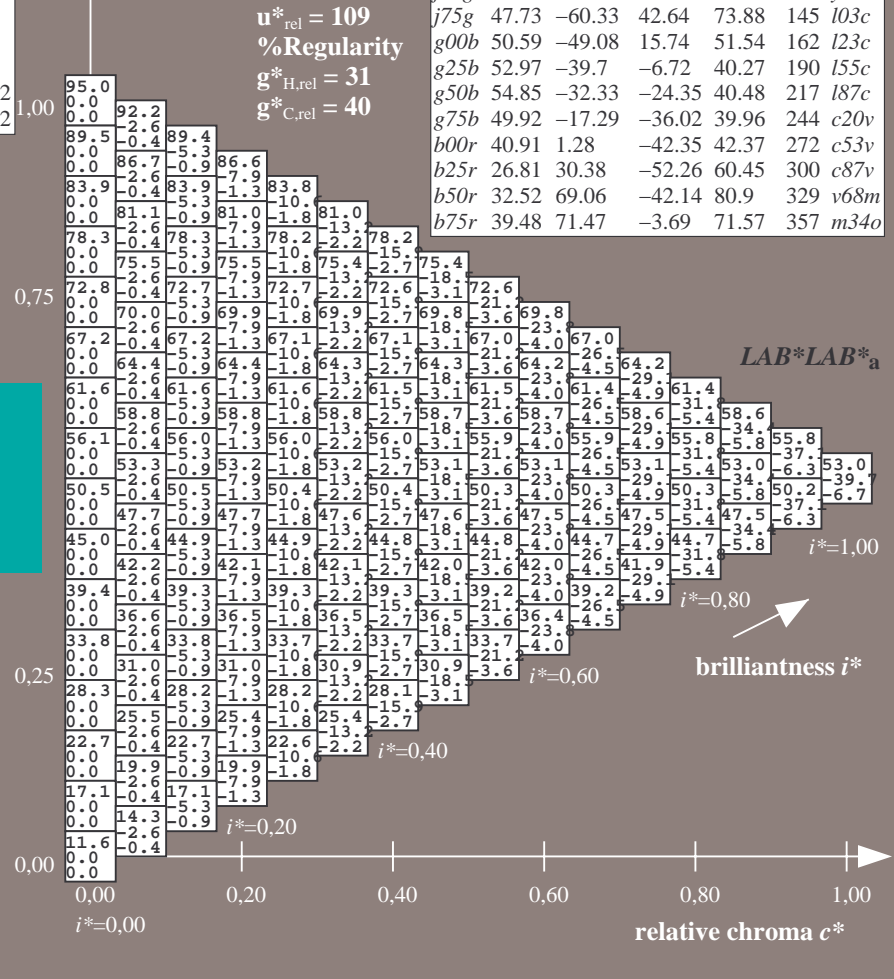
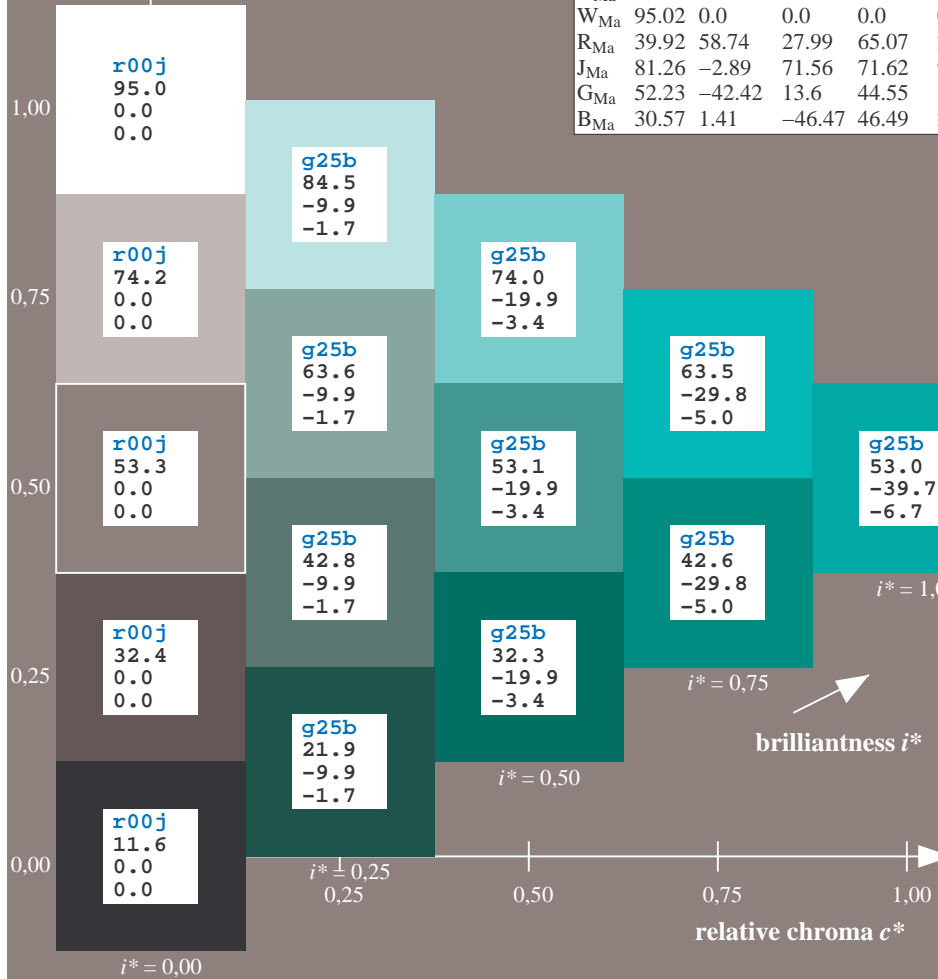
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

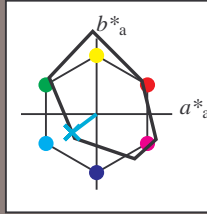
Hue texts:

$u^*_e = g50b$   $u^*_d = l87c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

$u^*_e = g50b$   
 $LAB^*LAB^*_a$

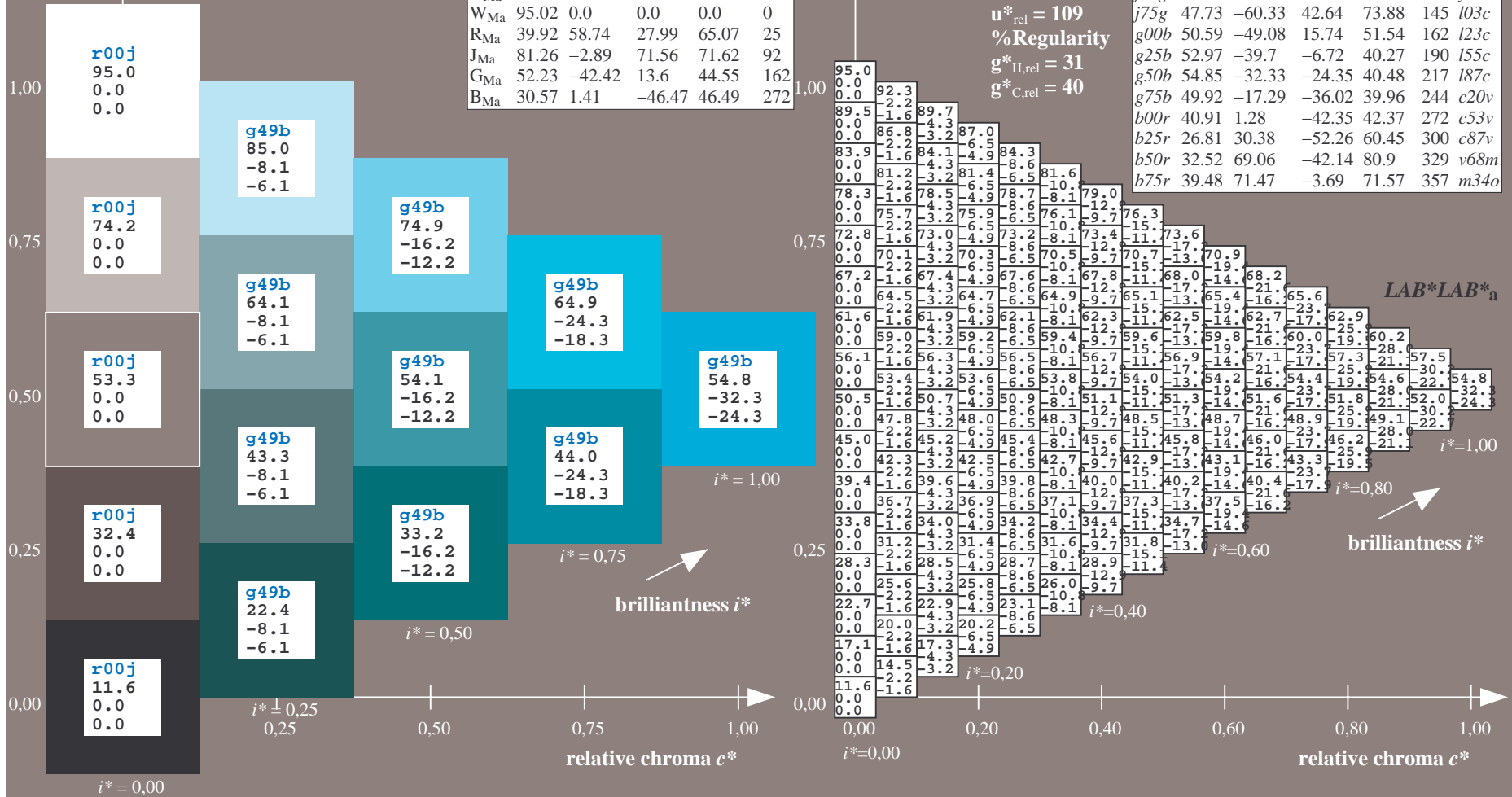
% Gamut

$u^*_{rel} = 109$

% Regularity

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

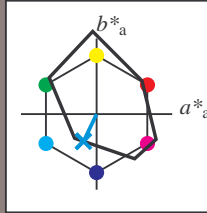
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $LAB^*LAB^*_a$

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



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 50 -17 -36$

$LAB^*LCH^*_Ma: 50 40 244$

$lab^*rgb^*_Ma: 0.0 0.5 1.0$

$lab^*olv^*_Ma: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

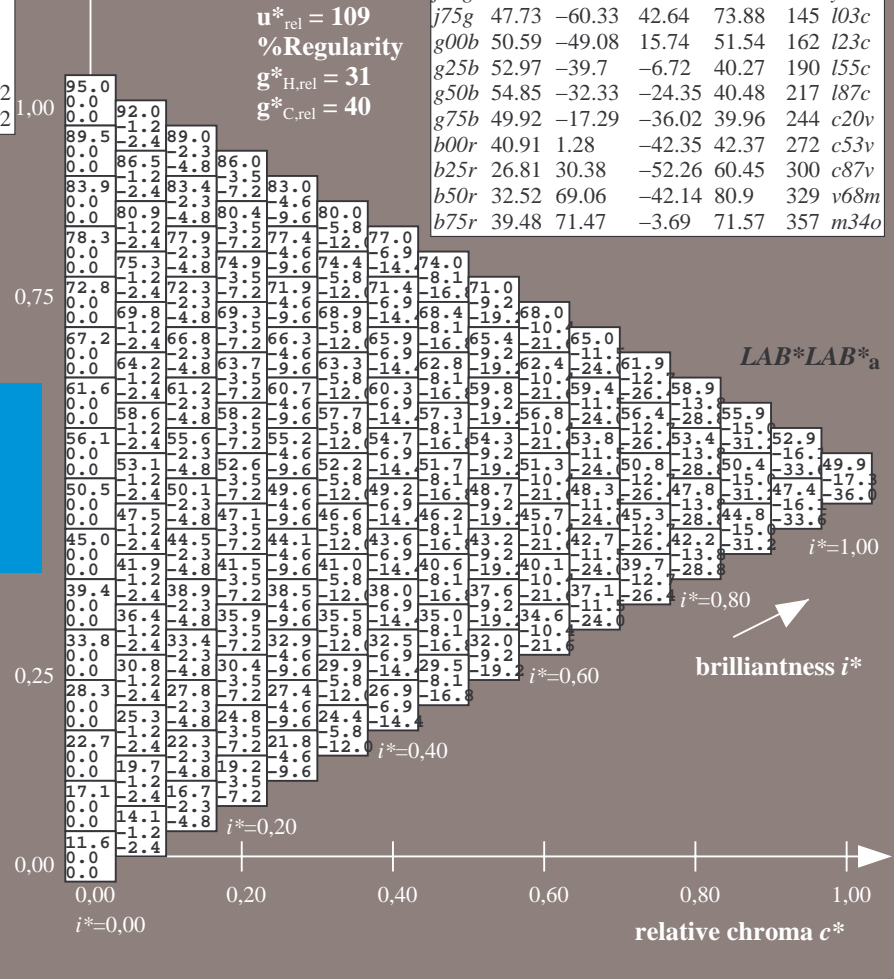
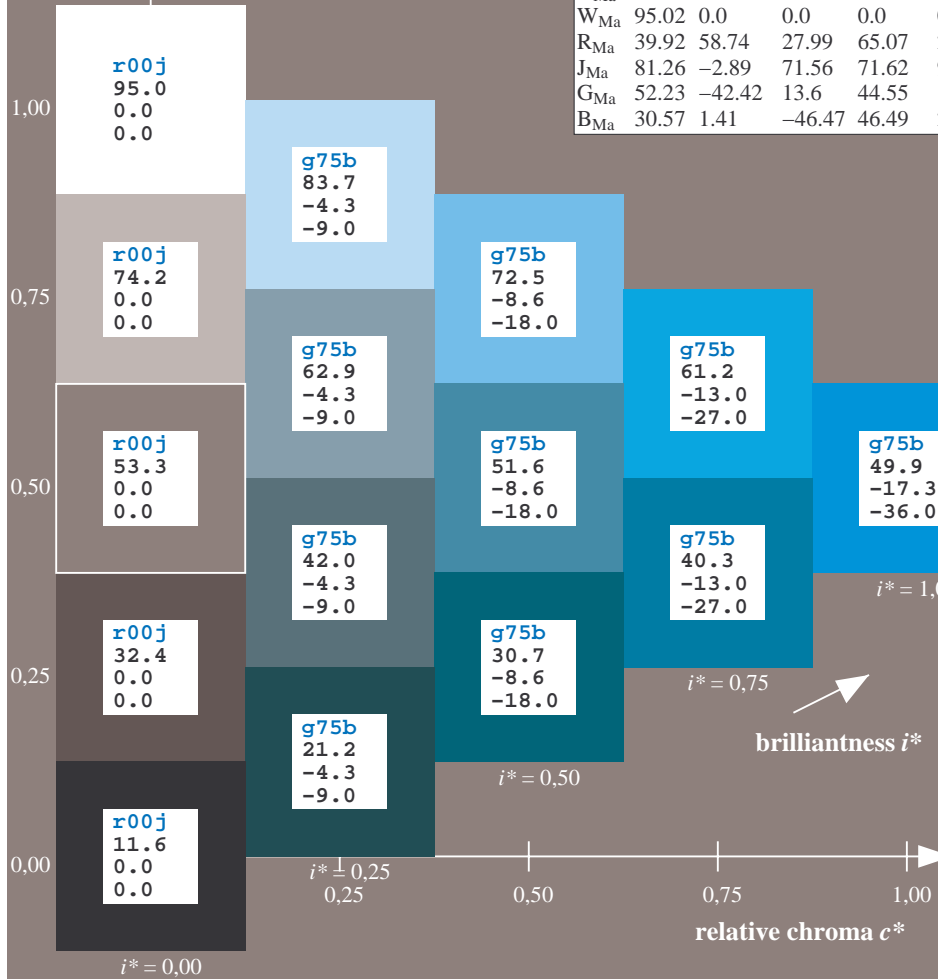
% Gamut

$u^*_{rel} = 109$

% Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$   
LAB\*LAB\*a

data for any colour:

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

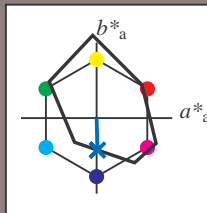
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 41 1 -42

LAB\*LCH\*<sub>Ma</sub>: 41 42 271

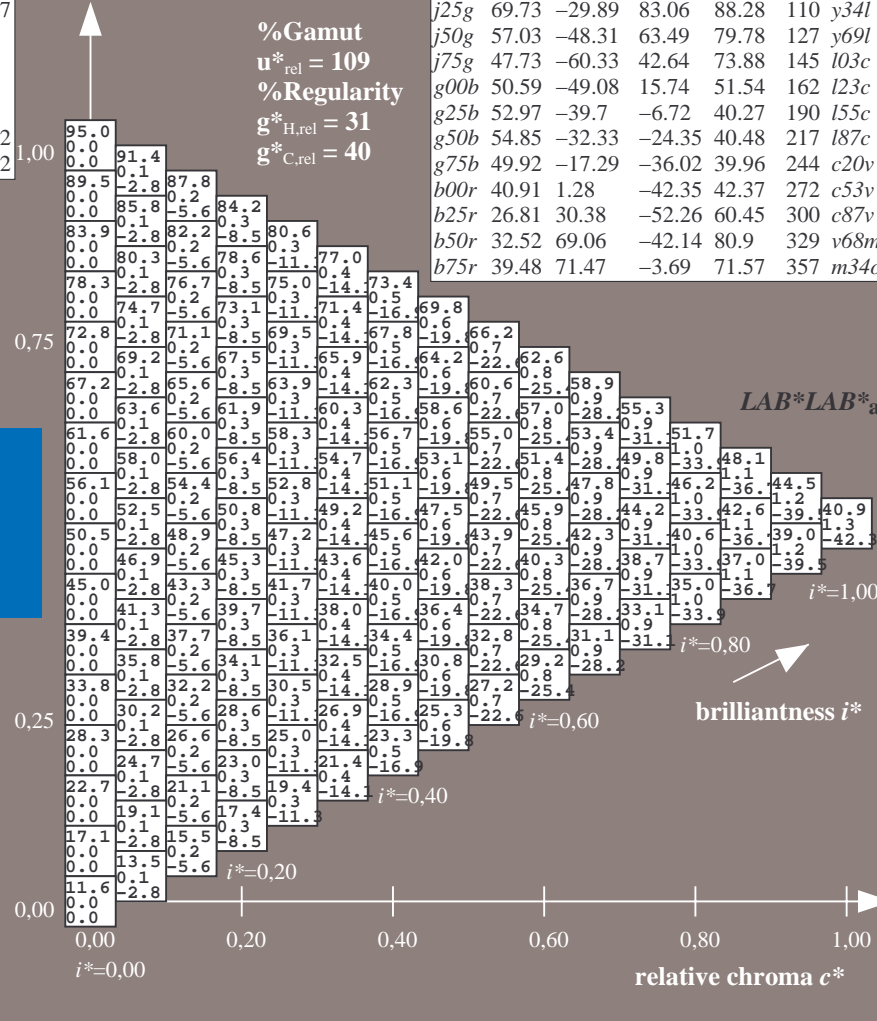
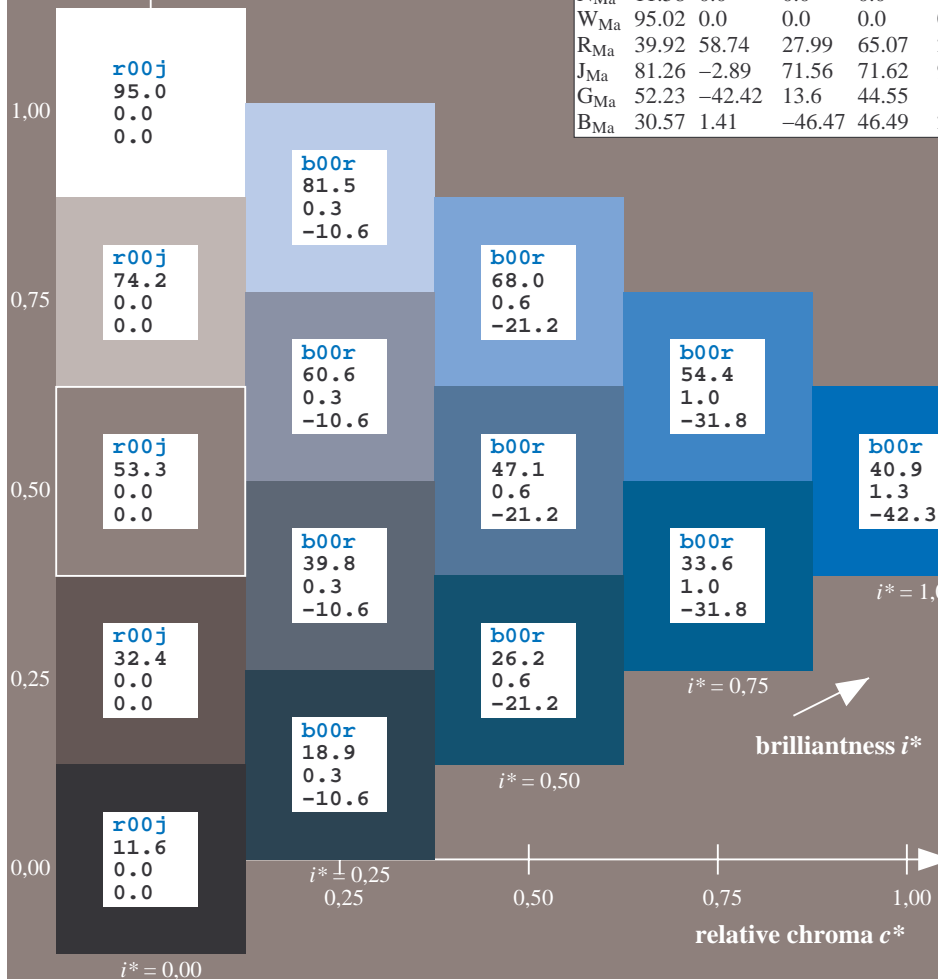
lab\*rgb\*<sub>Ma</sub>: 0.0 0.0 1.0

lab\*olv\*<sub>Ma</sub>: 0.0 0.47 1.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	123c	
g25b	52.97	-39.7	-6.72	40.27	190	155c	
g50b	54.85	-32.33	-24.35	40.48	217	187c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

LAB\*LAB\*a

$i^* = 1.00$

$i^* = 0.80$

$i^* = 0.60$

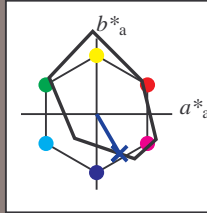
$i^* = 0.40$

$i^* = 0.20$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$   
 $LAB^*LAB^*_a$

data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$   
Hue texts:  
 $u^*_e = b25r$   $u^*_d = c87v$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 27\ 30\ -52$

$LAB^*LCH^*_Ma: 27\ 60\ 300$

$lab^*rgb^*_Ma: 0.5\ 0.0\ 1.0$

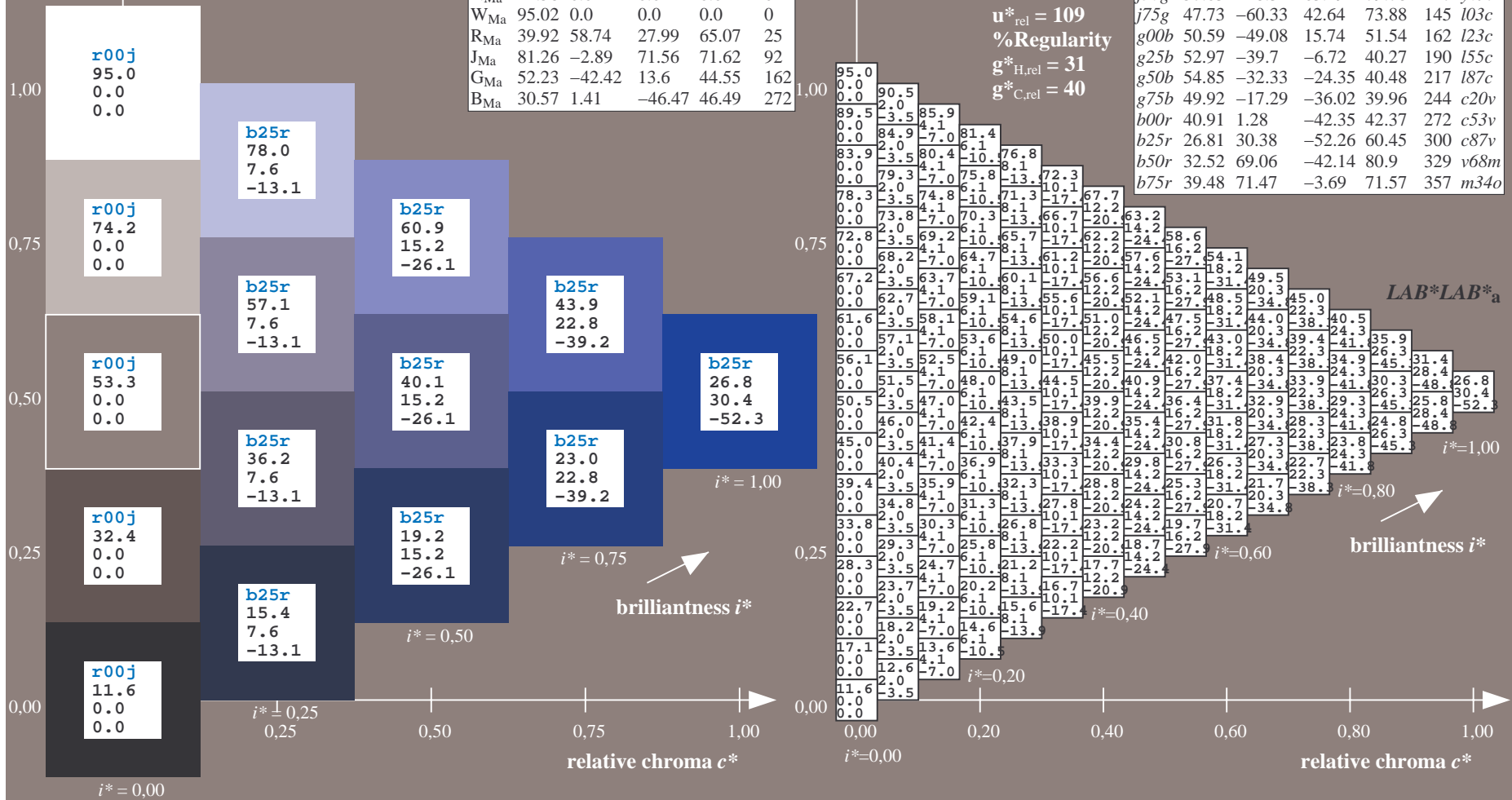
$lab^*olv^*_Ma: 0.0\ 0.12\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

%Gamut  
 $u^*_{rel} = 109$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$





Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$   
 data for any colour:

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

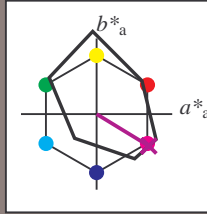
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 33 69 -42

$LAB^*LCH^*_{Ma}$ : 33 81 328

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

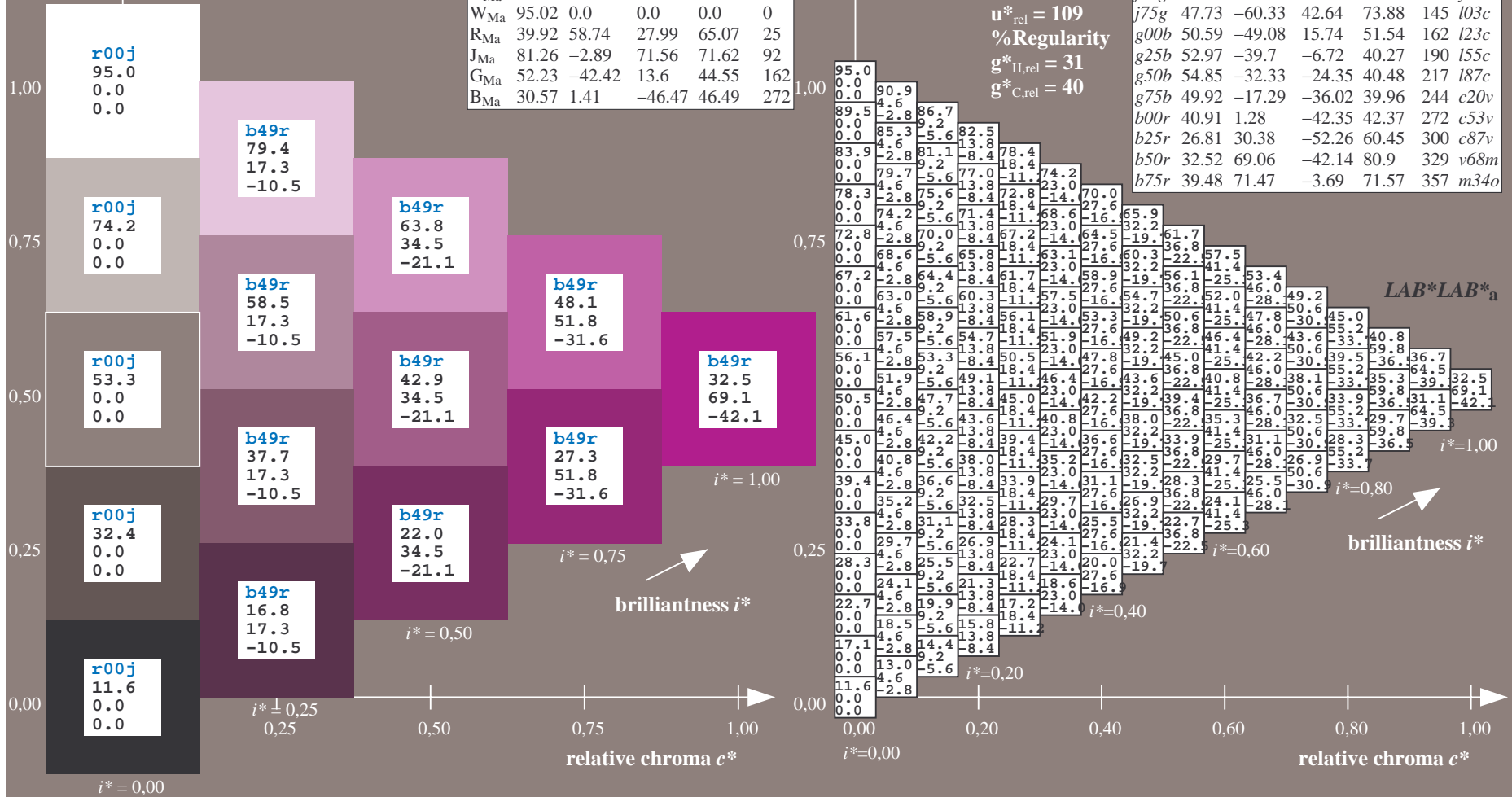
$lab^*olv^*_{Ma}$ : 0.69 0.0 1.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

$u^*_e = b50r$   
 $LAB^*LAB^*_a$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$

$u^*_e = b75r$

$LAB^*LAB^*_a$

data for any colour:

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

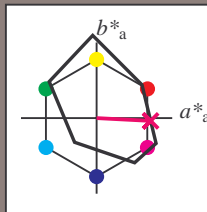
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 39\ 71\ -4$

$LAB^*LCH^*_Ma: 39\ 72\ 357$

$lab^*rgb^*_Ma: 1.0\ 0.0\ 0.5$

$lab^*olv^*_Ma: 1.0\ 0.0\ 0.66$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	i03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

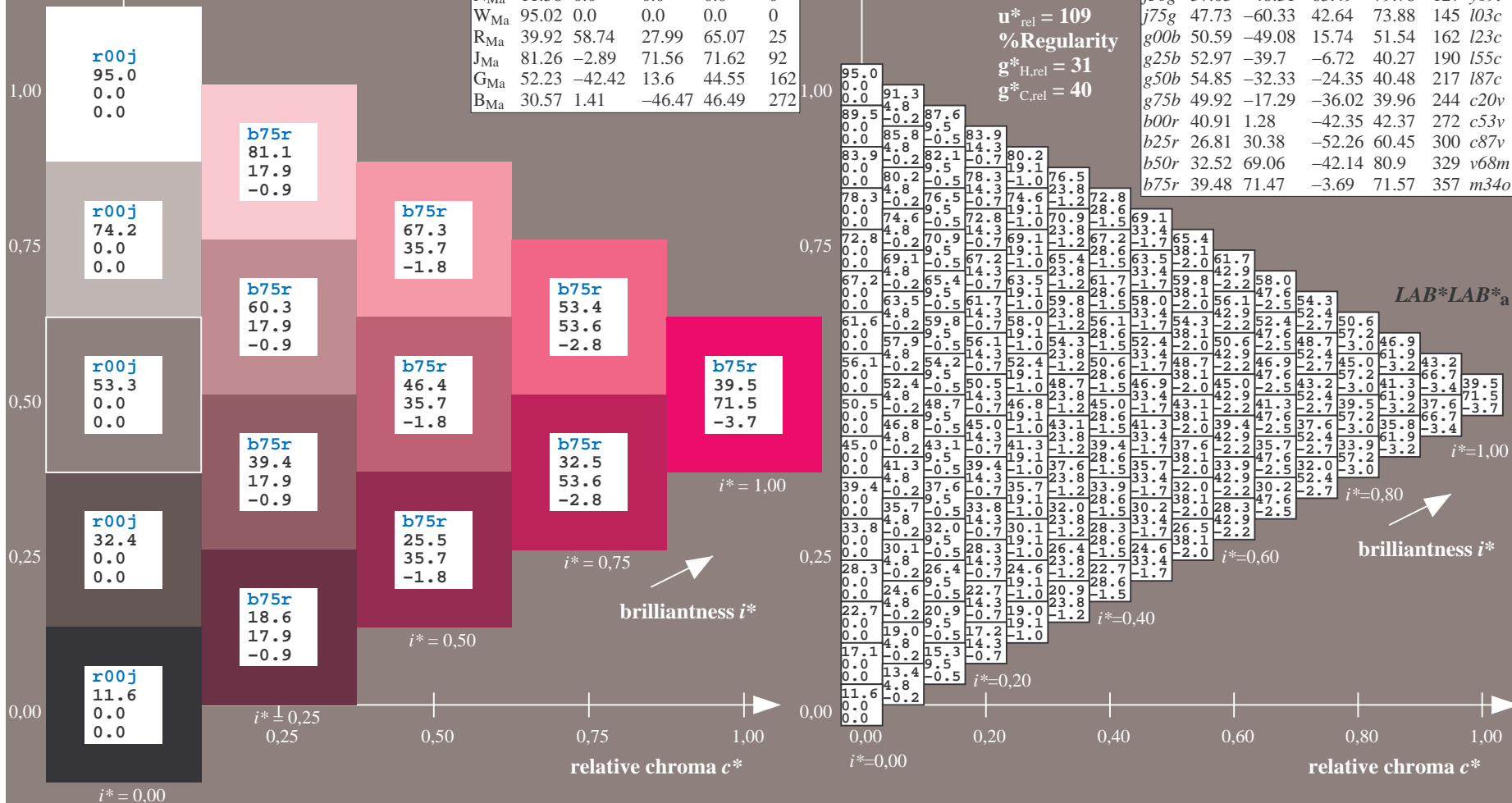
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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







Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15

elementary hue text:

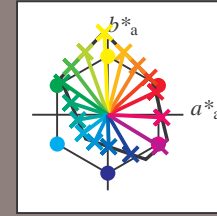
$u^*_e = 16$  hues *r00j, r25j, ..., b75r*

contrast reduction factor:

$c_R = 1.0$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
<i>r00j</i>	38.47	63.32	30.17	70.15	25	<i>m81o</i>
<i>r25j</i>	42.12	54.56	49.45	73.64	42	<i>o10y</i>
<i>r50j</i>	53.64	39.15	64.89	75.79	59	<i>o40y</i>
<i>r75j</i>	67.01	21.26	82.83	85.52	76	<i>o69y</i>
<i>j00g</i>	86.18	-4.38	108.53	108.62	92	<i>o98y</i>
<i>j25g</i>	69.73	-29.89	83.06	88.28	110	<i>y34l</i>
<i>j50g</i>	57.03	-48.31	63.49	79.78	127	<i>y69l</i>
<i>j75g</i>	47.73	-60.33	42.64	73.88	145	<i>l03c</i>
<i>g00b</i>	50.59	-49.08	15.74	51.54	162	<i>l23c</i>
<i>g25b</i>	52.97	-39.7	-6.72	40.27	190	<i>l55c</i>
<i>g50b</i>	54.85	-32.33	-24.35	40.48	217	<i>l87c</i>
<i>g75b</i>	49.92	-17.29	-36.02	39.96	244	<i>c20v</i>
<i>b00r</i>	40.91	1.28	-42.35	42.37	272	<i>c53v</i>
<i>b25r</i>	26.81	30.38	-52.26	60.45	300	<i>c87v</i>
<i>b50r</i>	32.52	69.06	-42.14	80.9	329	<i>v68m</i>
<i>b75r</i>	39.48	71.47	-3.69	71.57	357	<i>m34o</i>



%Gamut

$u^*_{rel} = 109$

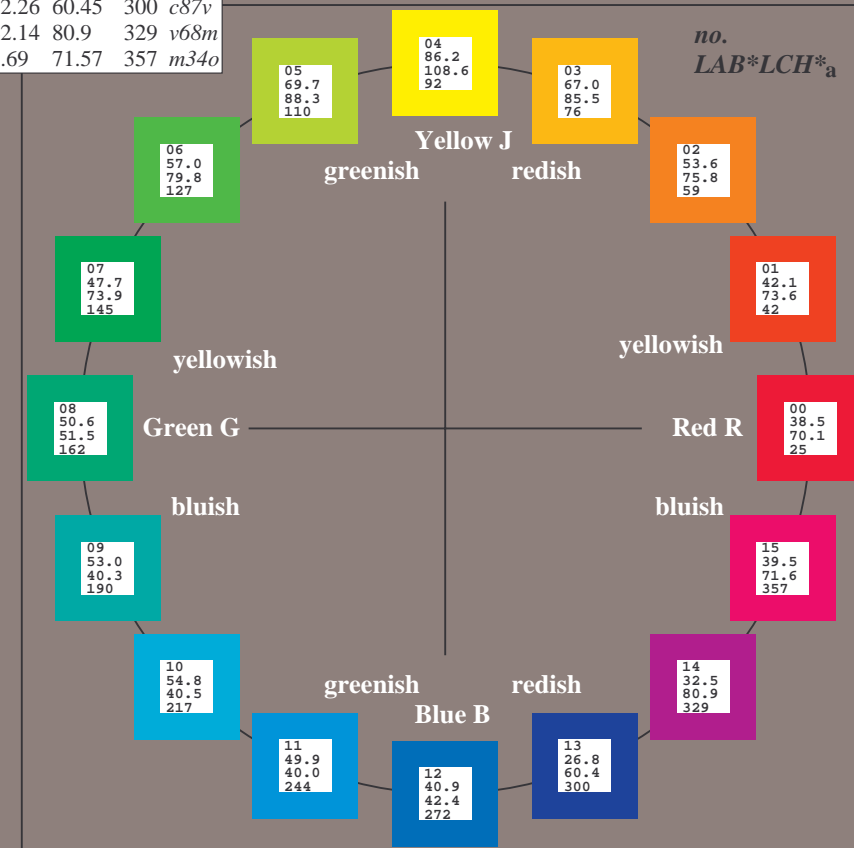
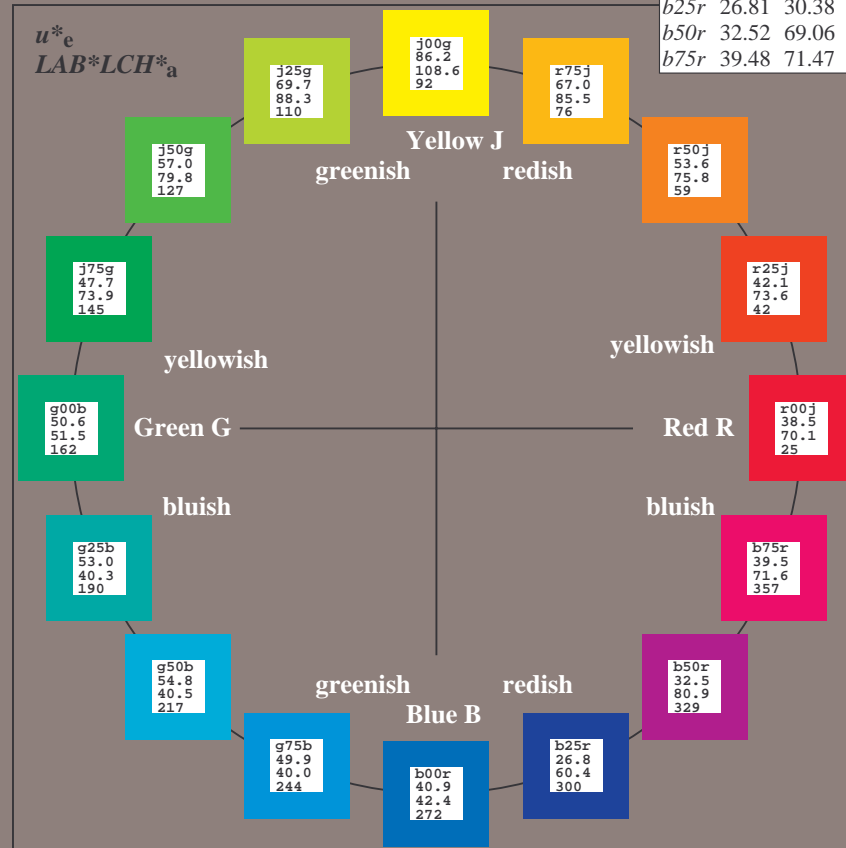
%Regularity

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

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

FRS12\_95a; adapted (a) CIELAB data

Name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

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

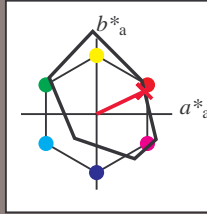
Hue texts:

$u^*_e = r00j$   $u^*_d = m8l0$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 38 63 30

$LAB^*LCH^*_{Ma}$ : 38 70 25

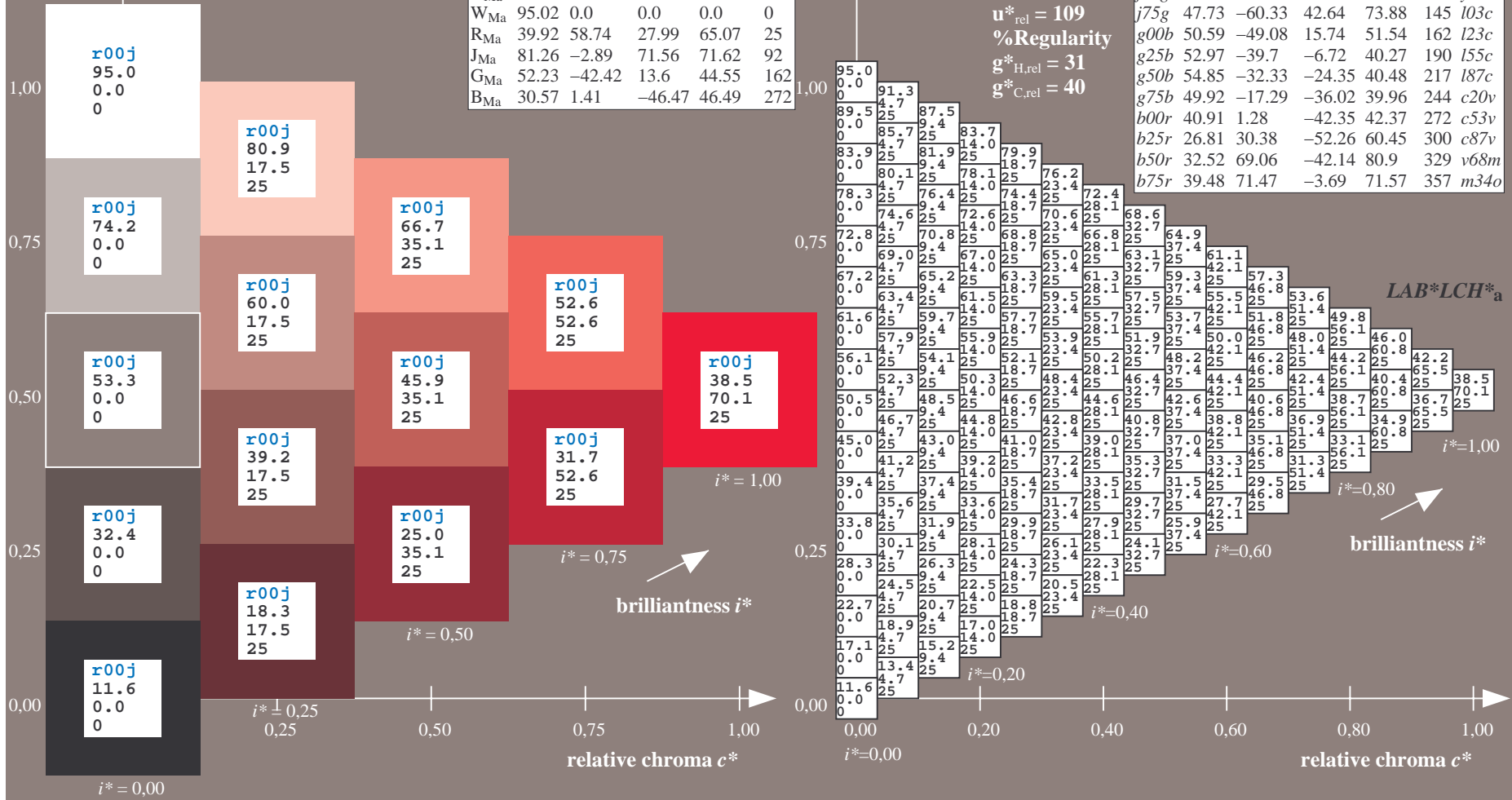
$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m8l0	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

LAB\*LCH\*a

$i^* = 1.00$

$i^* = 0.80$

brilliantness  $i^*$

$i^* = 0.60$

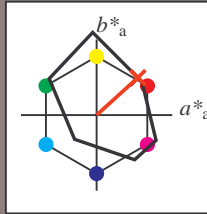
$i^* = 0.40$

$i^* = 0.20$

$i^* = 0.00$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r25j$   $u^*_d = o10y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



**FRS12\_95a; adapted (a) CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 42 55 49

$LAB^*LCH^*_{Ma}$ : 42 74 42

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

$lab^*olv^*_{Ma}$ : 1.0 0.11 0.0

triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 109$

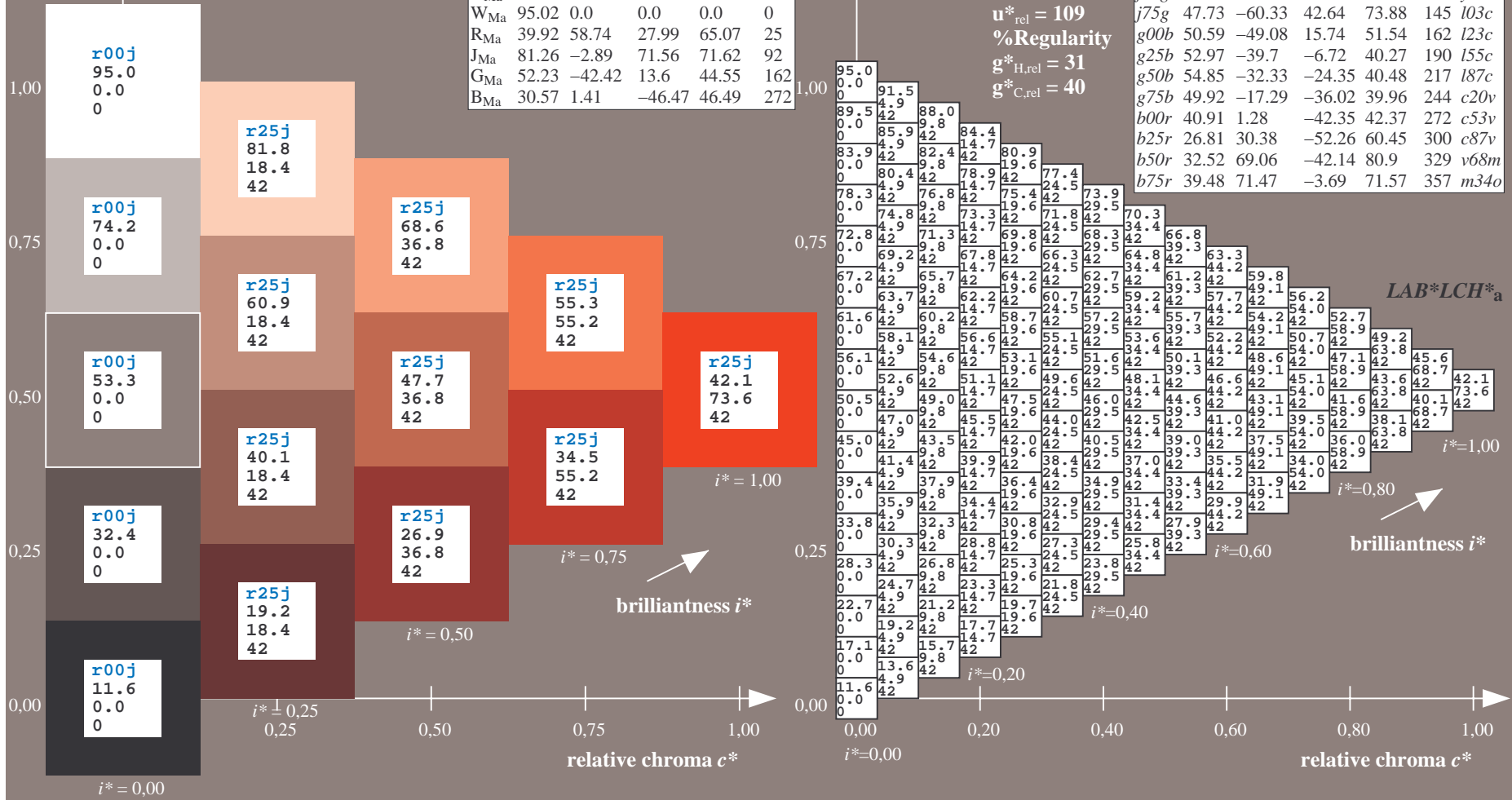
%Regularity

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

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

**FRS12\_95a; adapted (a) CIELAB data**

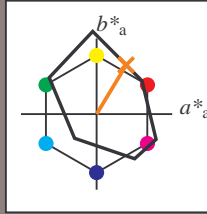
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$   
 data for any colour:

$u^*_e = r50j$   
 $LAB^*LCH^*_a$

$lab^*ch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r50j$   $u^*_d = o40y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $i^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 54\ 39\ 65$

$LAB^*LCH^*_Ma: 54\ 76\ 58$

$lab^*rgb^*_Ma: 1.0\ 0.5\ 0.0$

$lab^*olv^*_Ma: 1.0\ 0.4\ 0.0$

triangle lightness  $i^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

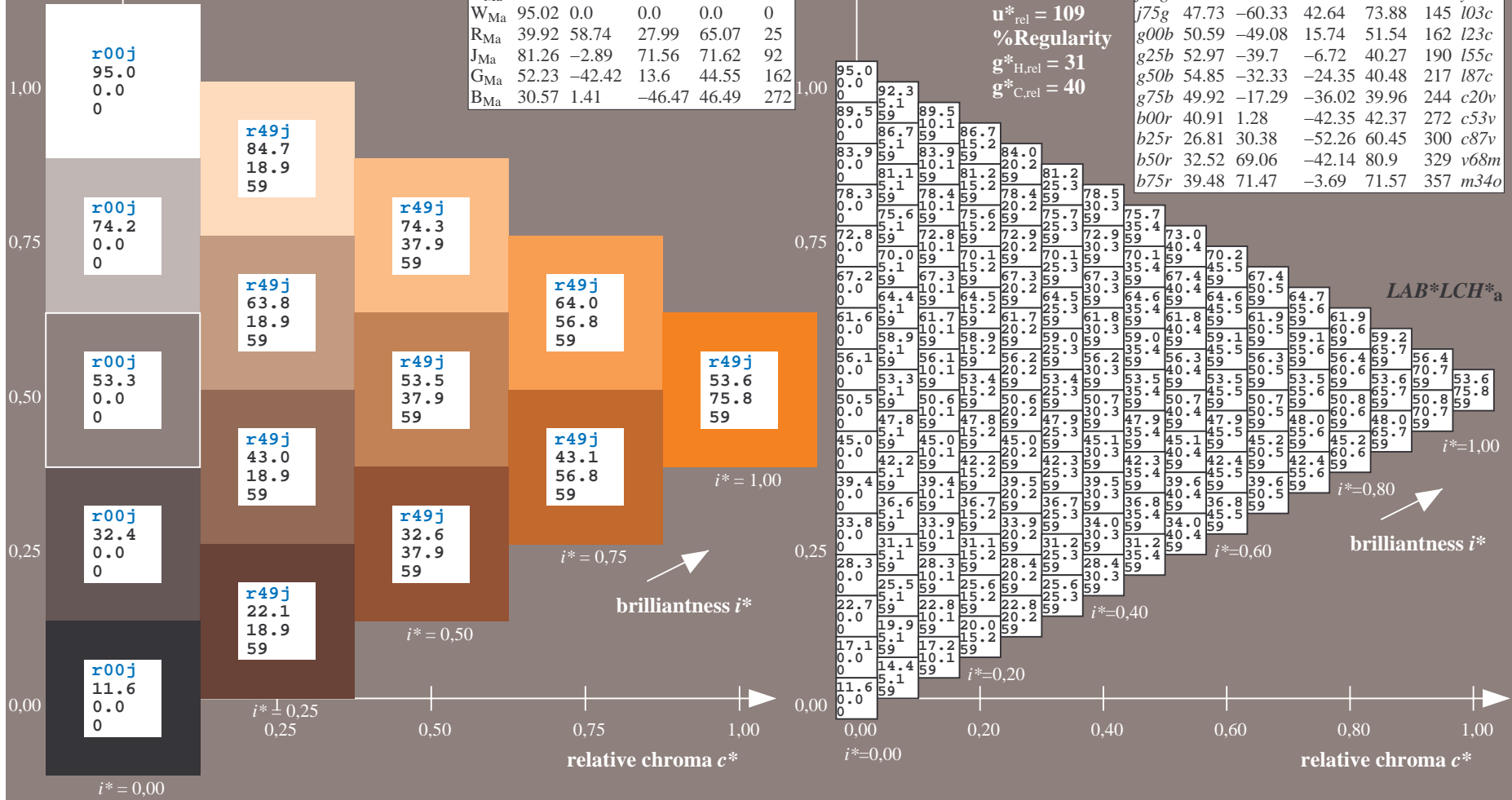
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

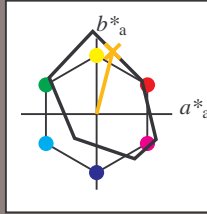




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$   
 $LAB^*LCH^*_a$

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r75j$   $u^*_d = o69y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 67\ 21\ 83$

$LAB^*LCH^*_Ma: 67\ 86\ 75$

$lab^*rgb^*_Ma: 1.0\ 0.75\ 0.0$

$lab^*olv^*_Ma: 1.0\ 0.7\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

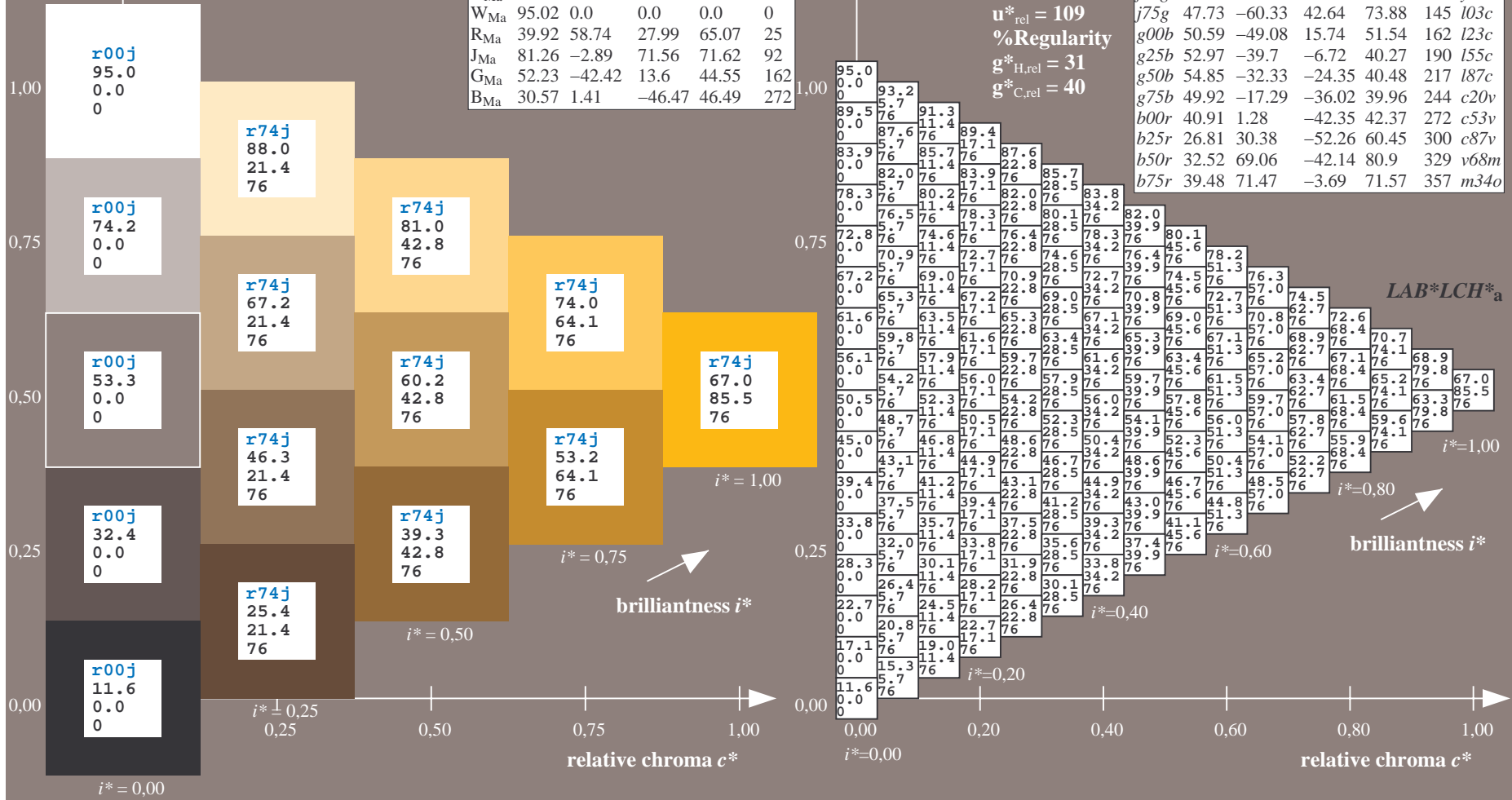
%Gamut

$u^*_{rel} = 109$

%Regularity

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

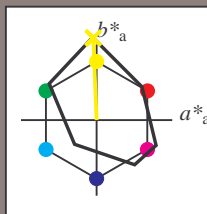
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$

$u^*_e = j00g$   
LAB\*LCH\*\_a

data for any colour:  
lab\**tc*\* and lab\**icu*\*  
Hue texts:  
 $u^*_e = j00g$   $u^*_d = o98y$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness *t*\*



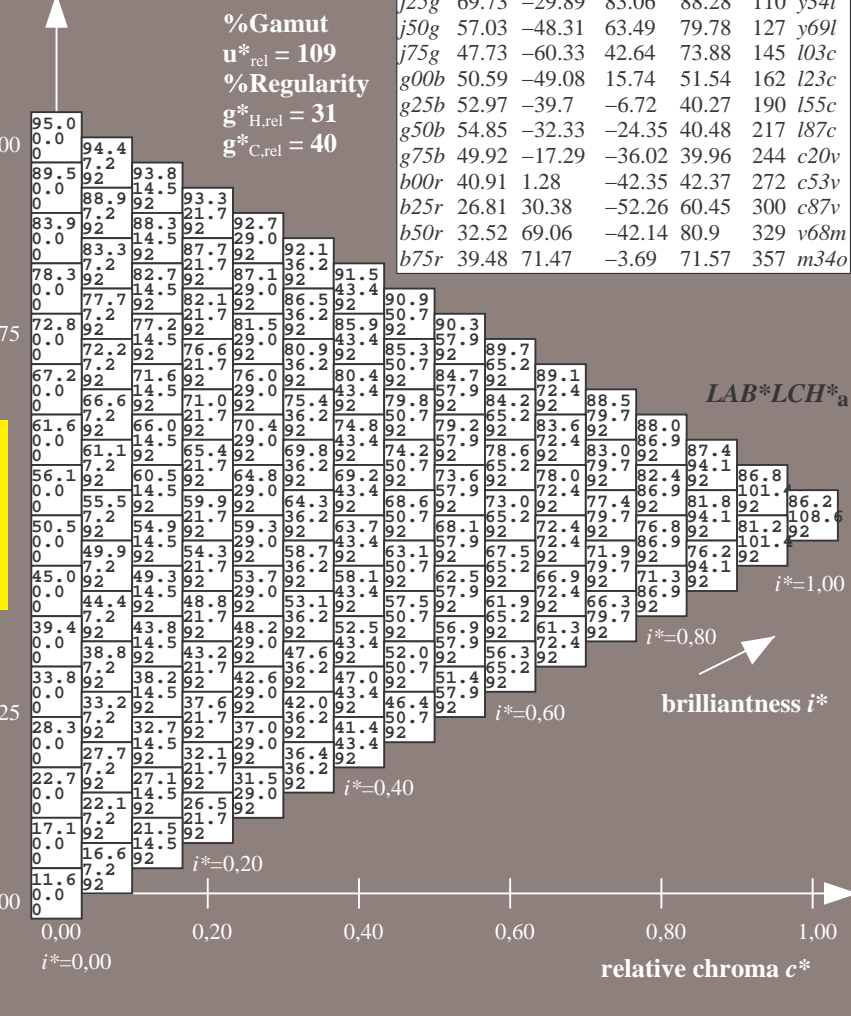
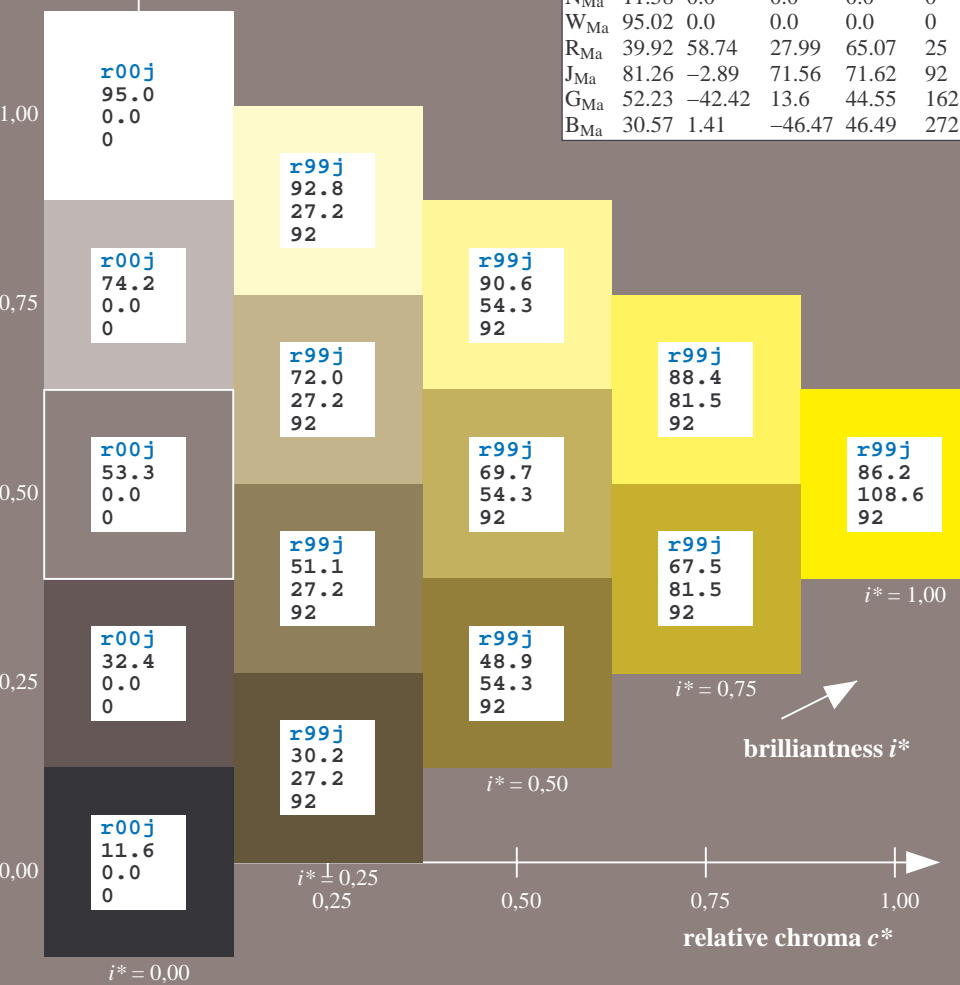
FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):  
LAB\*LAB\*\_Ma: 86 -4 109  
LAB\*LCH\*\_Ma: 86 109 92  
lab\*rgb\*\_Ma: 1.0 1.0 0.0  
lab\*olv\*\_Ma: 1.0 0.99 0.0  
triangle lightness *t*\*

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $LAB^*LCH^*_a$

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

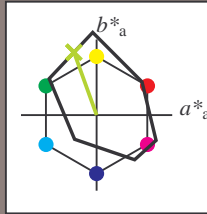
Hue texts:

$u^*_e = j25g$   $u^*_d = y34l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 70 -30 83$

$LAB^*LCH^*_Ma: 70 88 109$

$lab^*rgb^*_Ma: 0.75 1.0 0.0$

$lab^*olv^*_Ma: 0.66 1.0 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

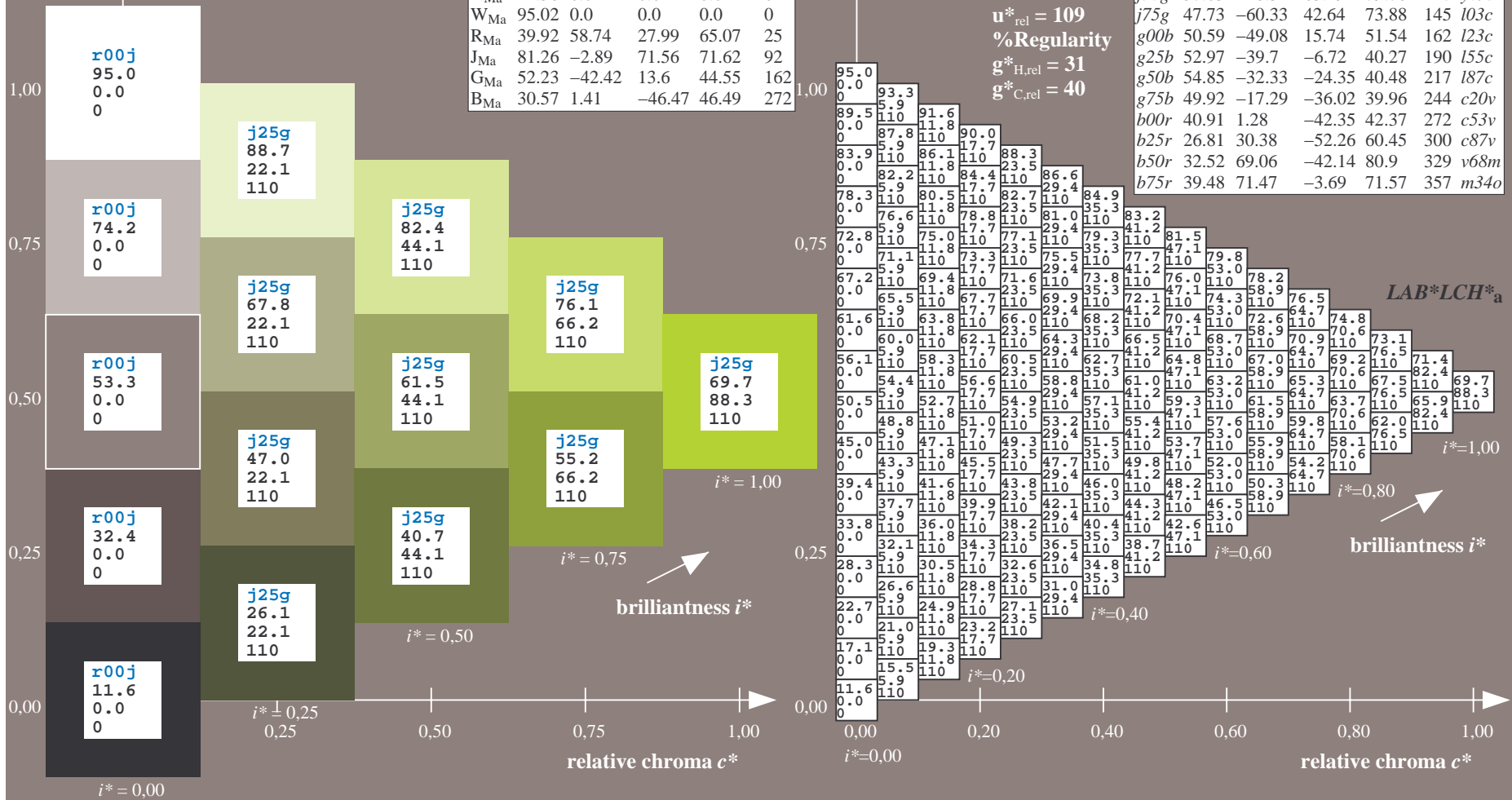
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



$LAB^*LCH^*_a$

$i^* = 1.00$

$i^* = 0.80$

$i^* = 0.60$

$i^* = 0.40$

$i^* = 0.20$

$i^* = 0.00$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$

$u^*_e = j50g$   
LAB\*LCH\*\_a

data for any colour:

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

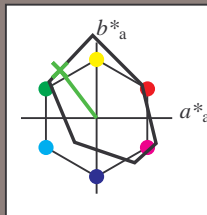
Hue texts:

$u^*_e = j50g$   $u^*_d = y69l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

LAB\*LAB\*\_Ma: 57 -48 63

LAB\*LCH\*\_Ma: 57 80 127

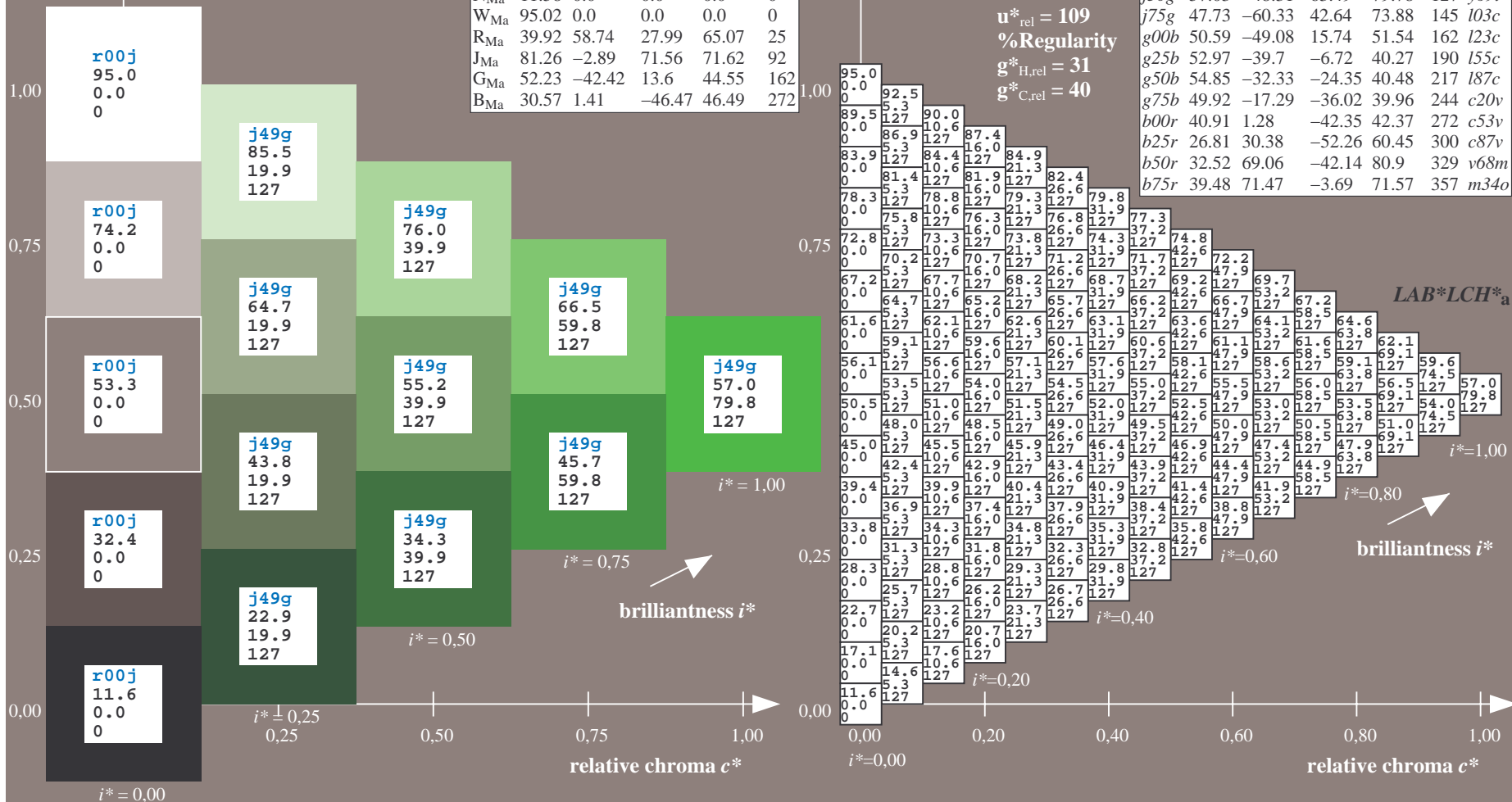
lab\*rgb\*\_Ma: 0.5 1.0 0.0

lab\*olv\*\_Ma: 0.3 1.0 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	i03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

LAB\*LCH\*\_a

$i^* = 1,00$

$i^* = 0,80$

brilliantness  $i^*$

$i^* = 0,60$

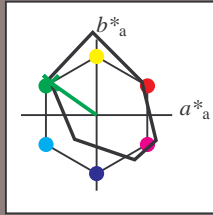
$i^* = 0,40$

$i^* = 0,20$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

$u^*_e = j75g$   
 $LAB^*LCH^*_a$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j75g$   $u^*_d = l03c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 48 -60 43$

$LAB^*LCH^*_Ma: 48 74 144$

$lab^*rgb^*_Ma: 0.25 1.0 0.0$

$lab^*olv^*_Ma: 0.0 1.0 0.03$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l23c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

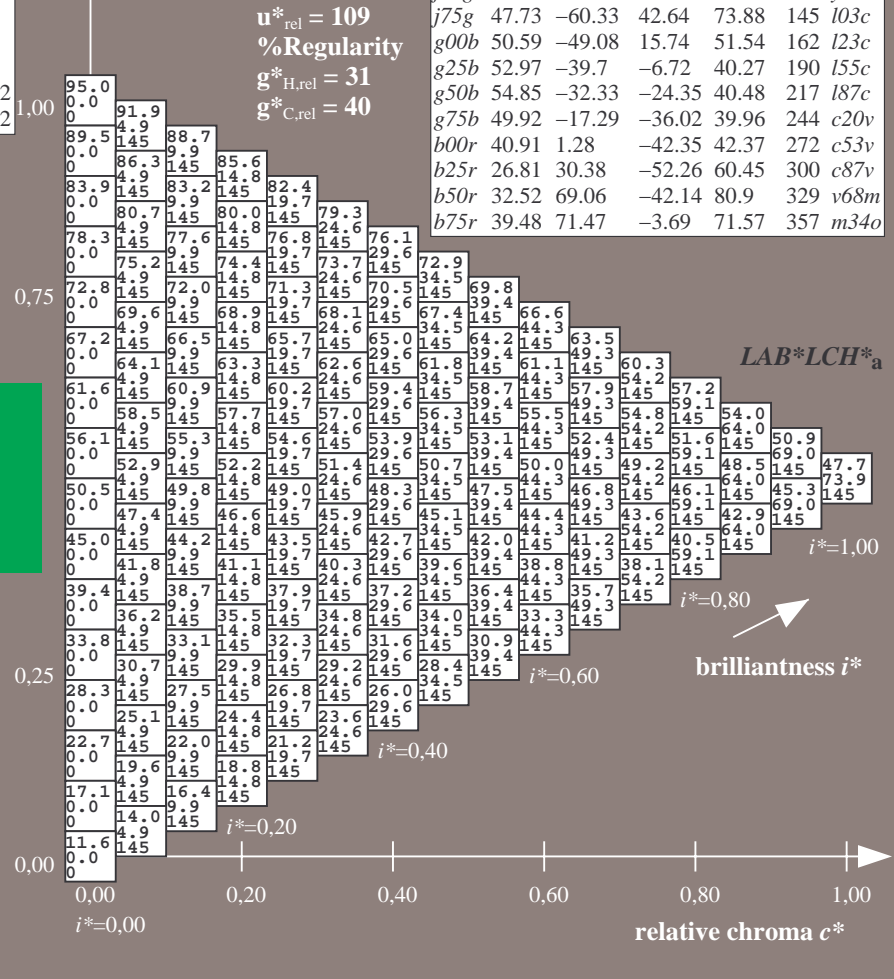
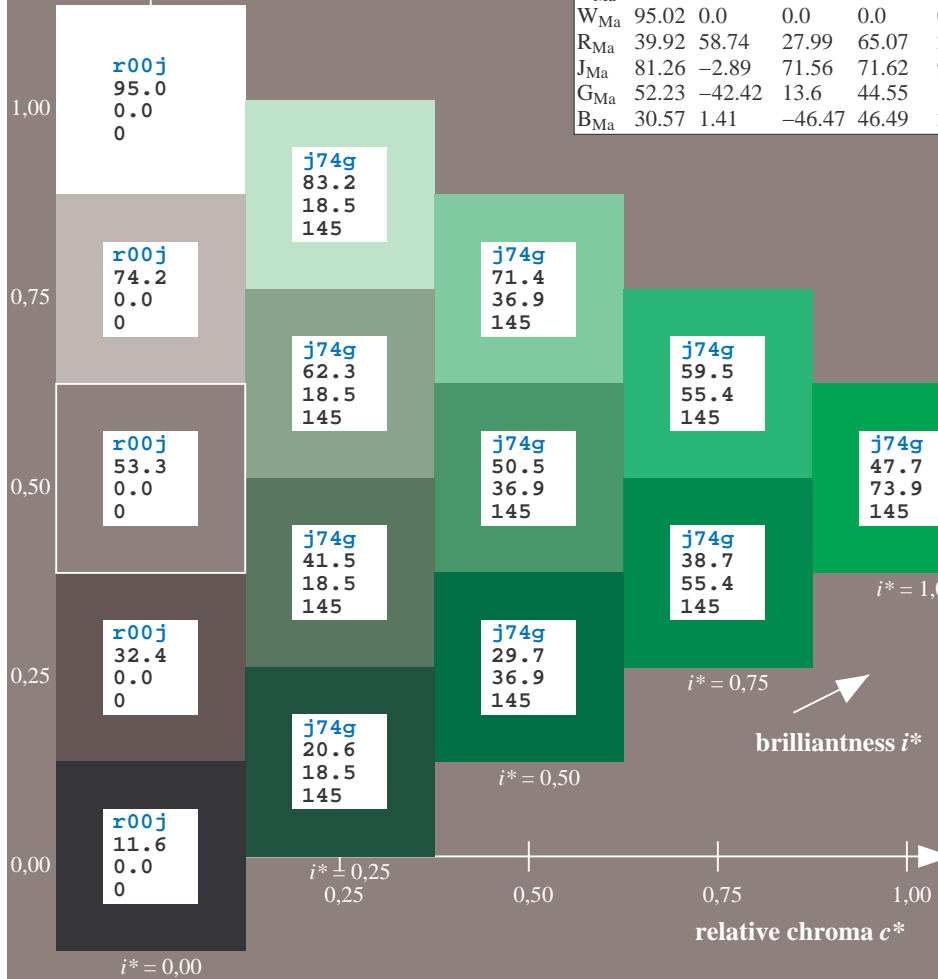
%Gamut

$u^*_{rel} = 109$

%Regularity

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

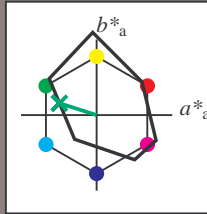
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$

$u^*_e = g00b$   
 $LAB^*LCH^*_a$

data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$   
Hue texts:  
 $u^*_e = g00b$   $u^*_d = l23c$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 51 -49 16$

$LAB^*LCH^*_{Ma}: 51 52 162$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

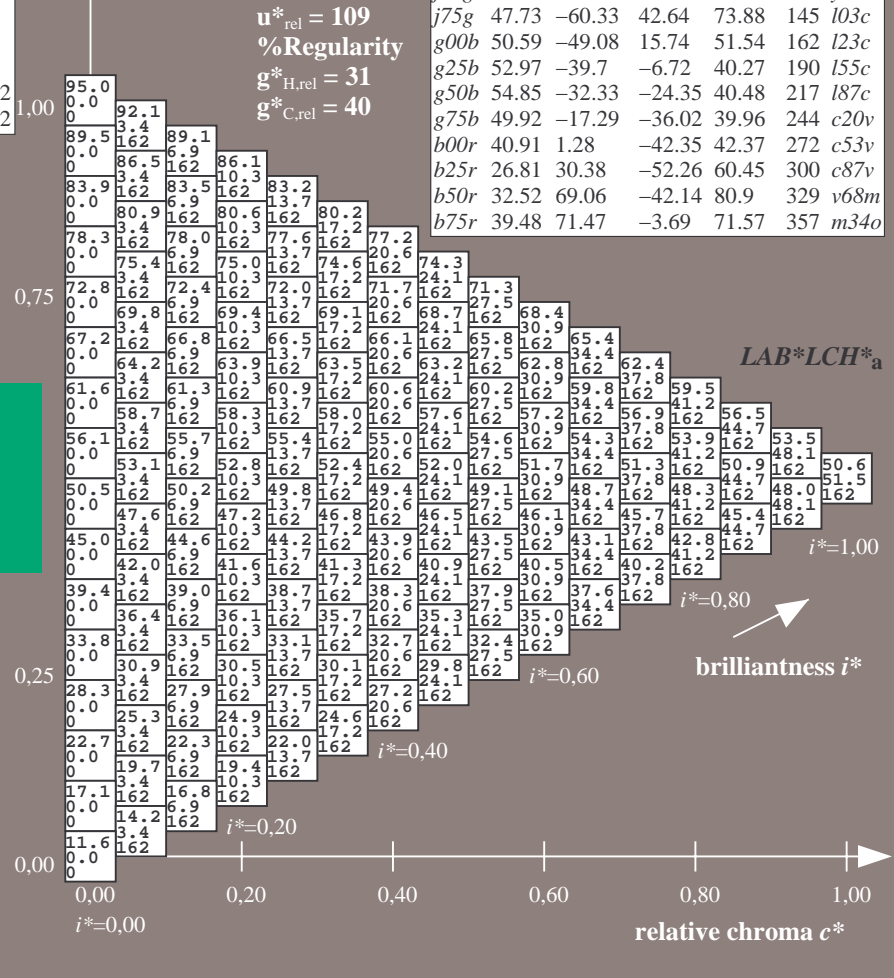
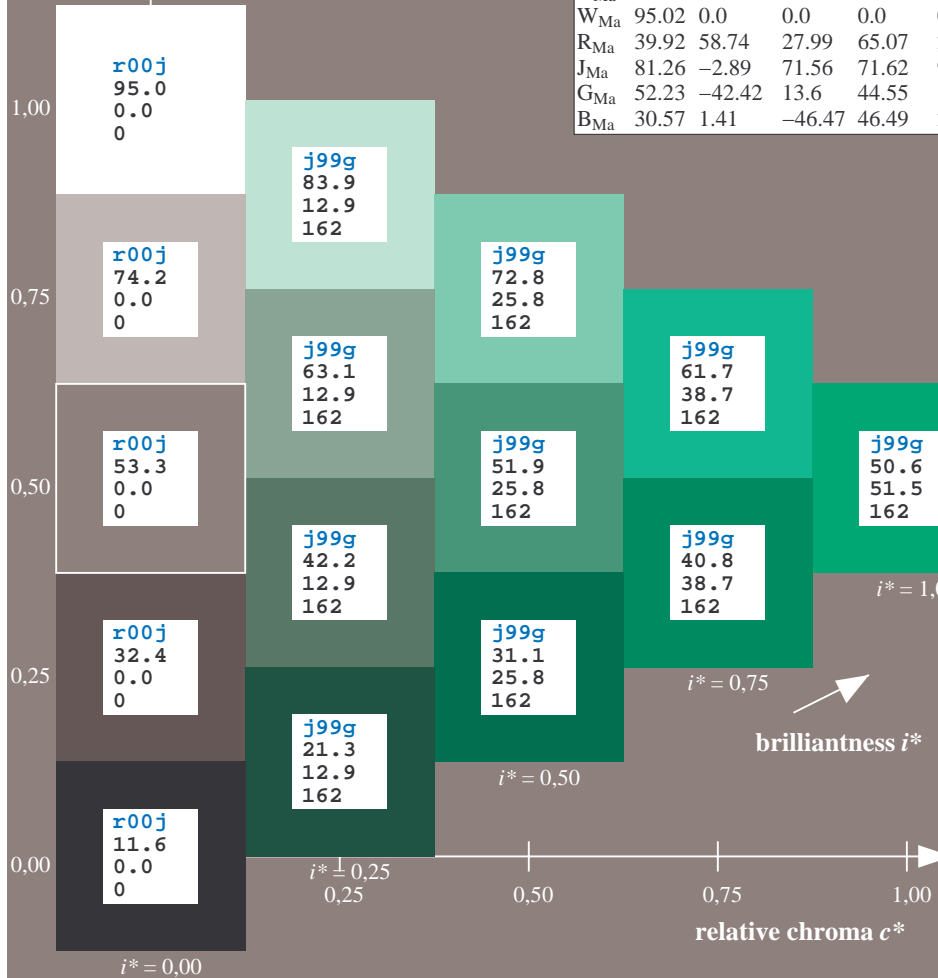
%Gamut

$u^*_{rel} = 109$

%Regularity

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

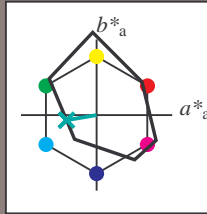
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $LAB^*LCH^*_a$

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



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

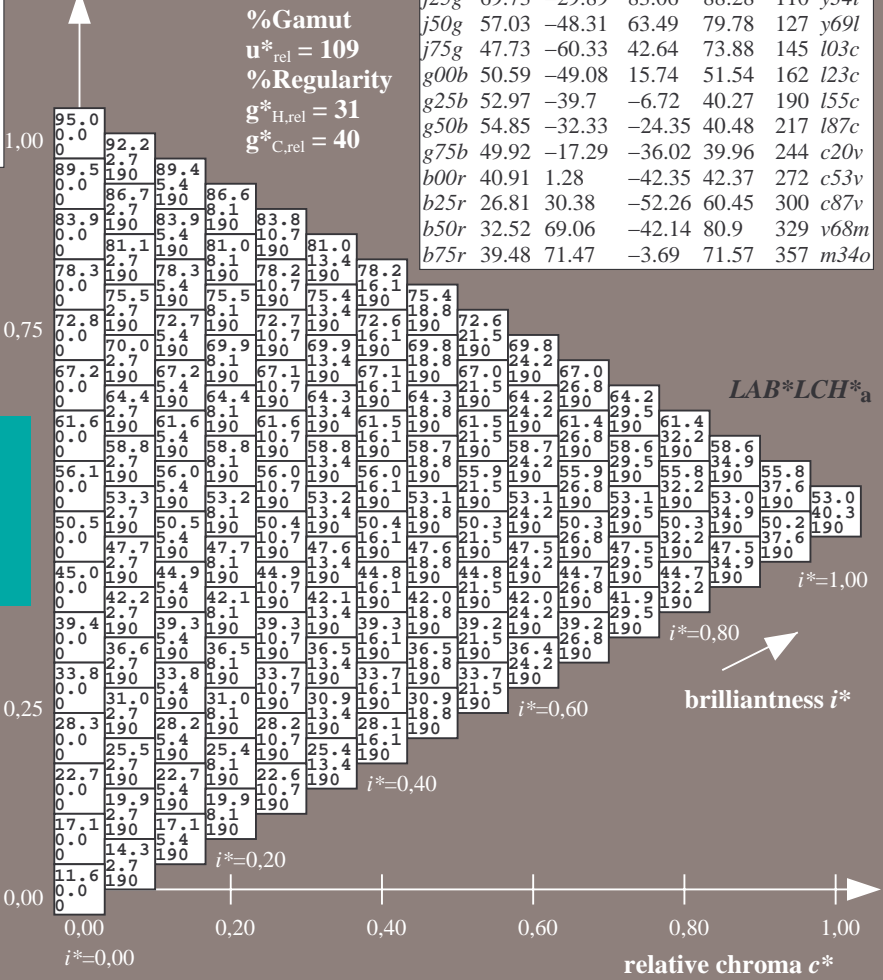
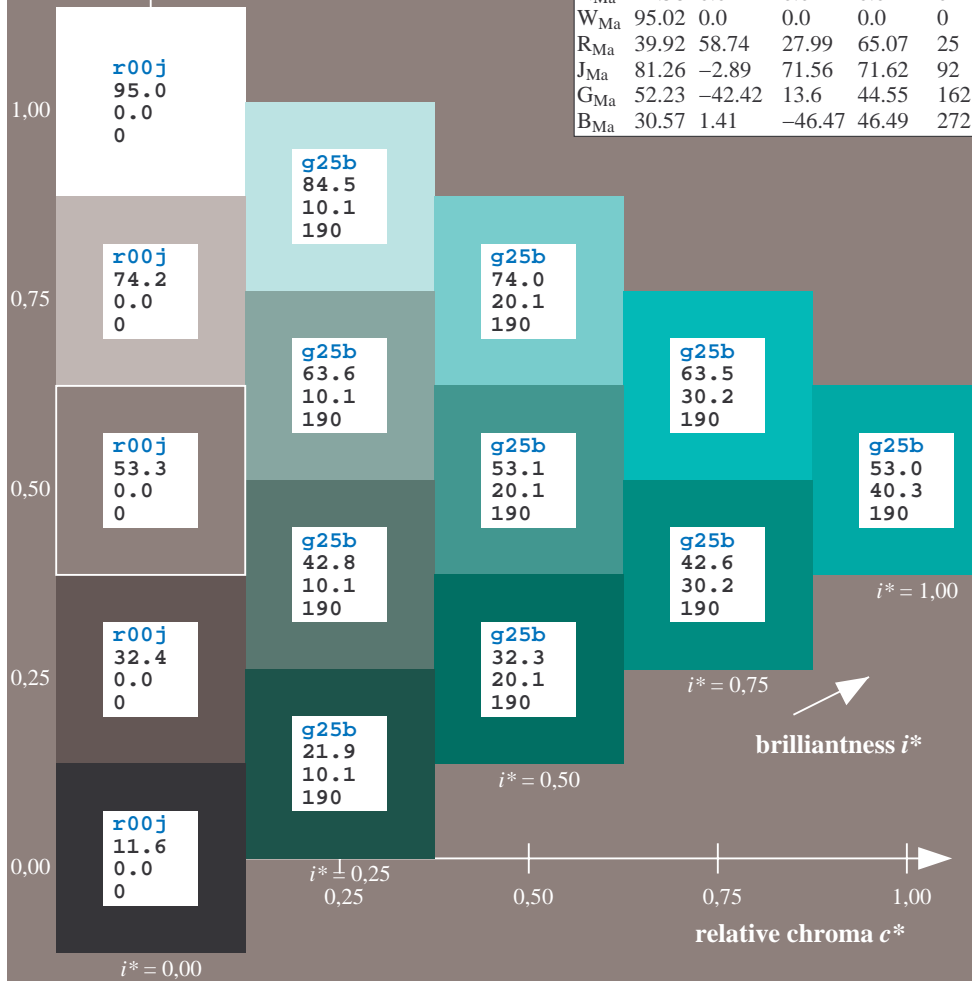
$lab^*rgb^*_{Ma}: 0.0 1.0 0.5$

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

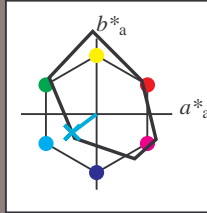




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $LAB^*LCH^*_a$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g50b$   $u^*_d = l87c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

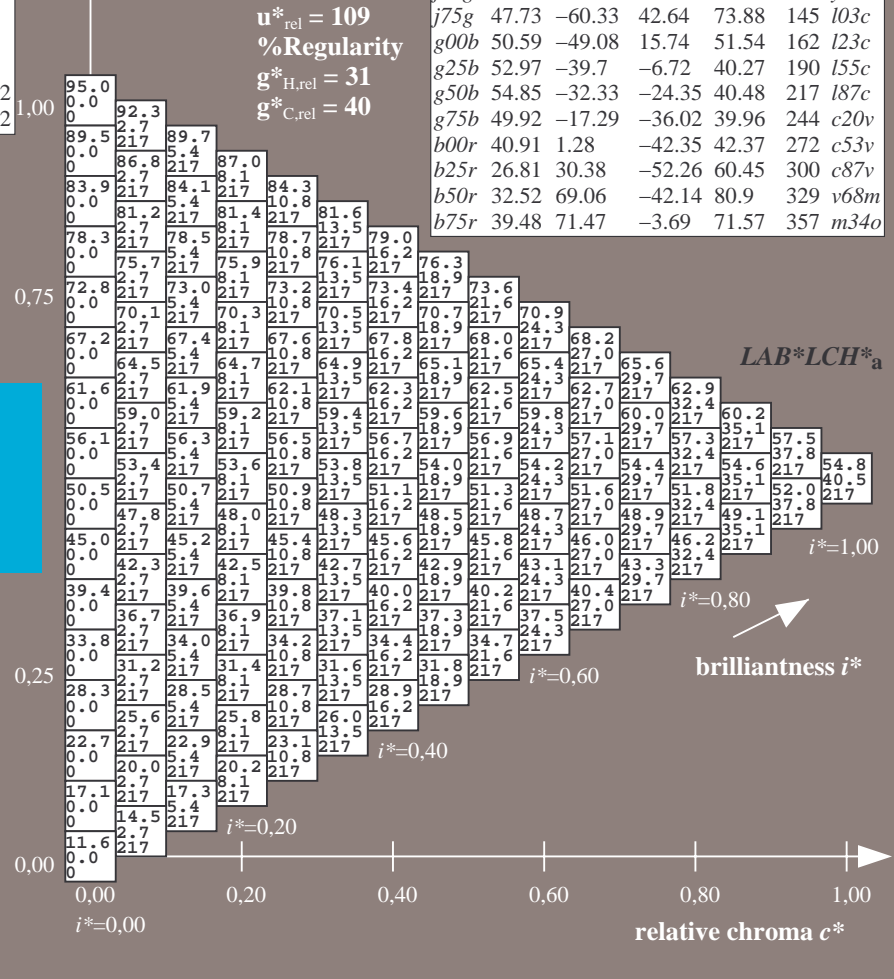
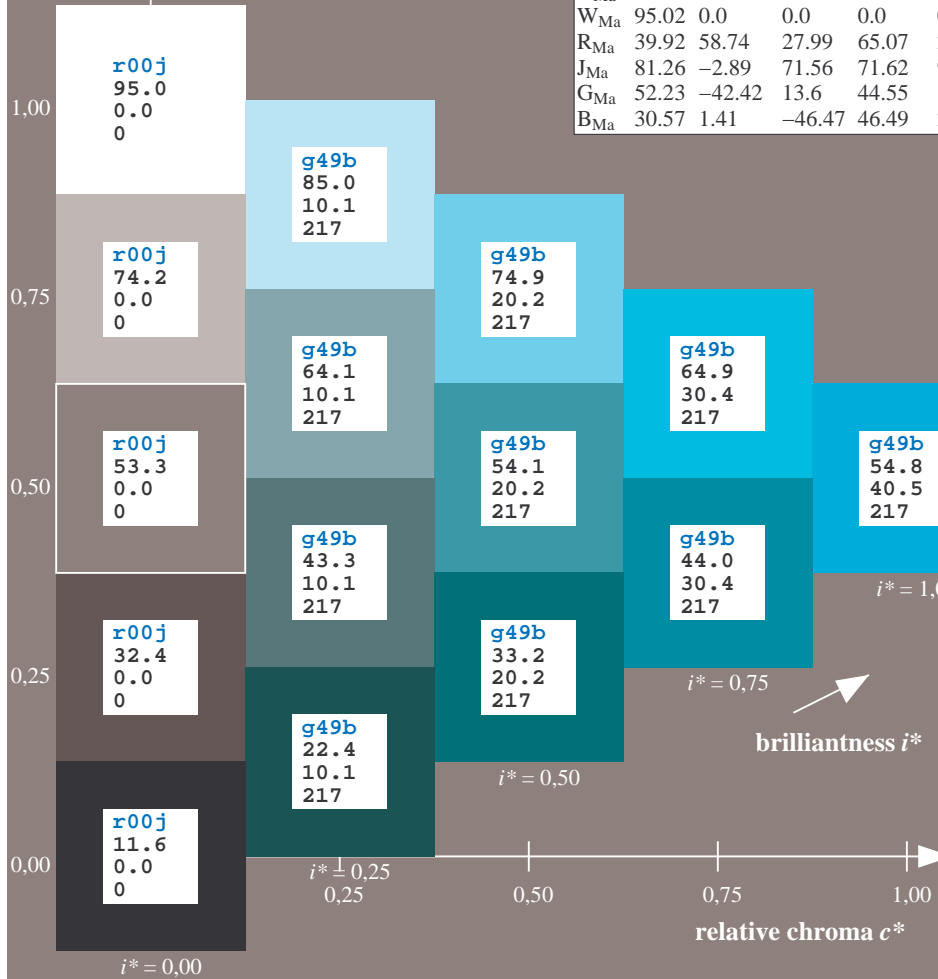
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $LAB^*LCH^*_a$

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

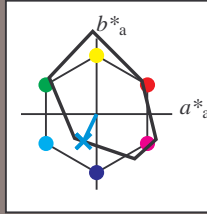
Hue texts:

$u^*_e = g75b$   $u^*_d = c20v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 50 -17 -36$

$LAB^*LCH^*_Ma: 50 40 244$

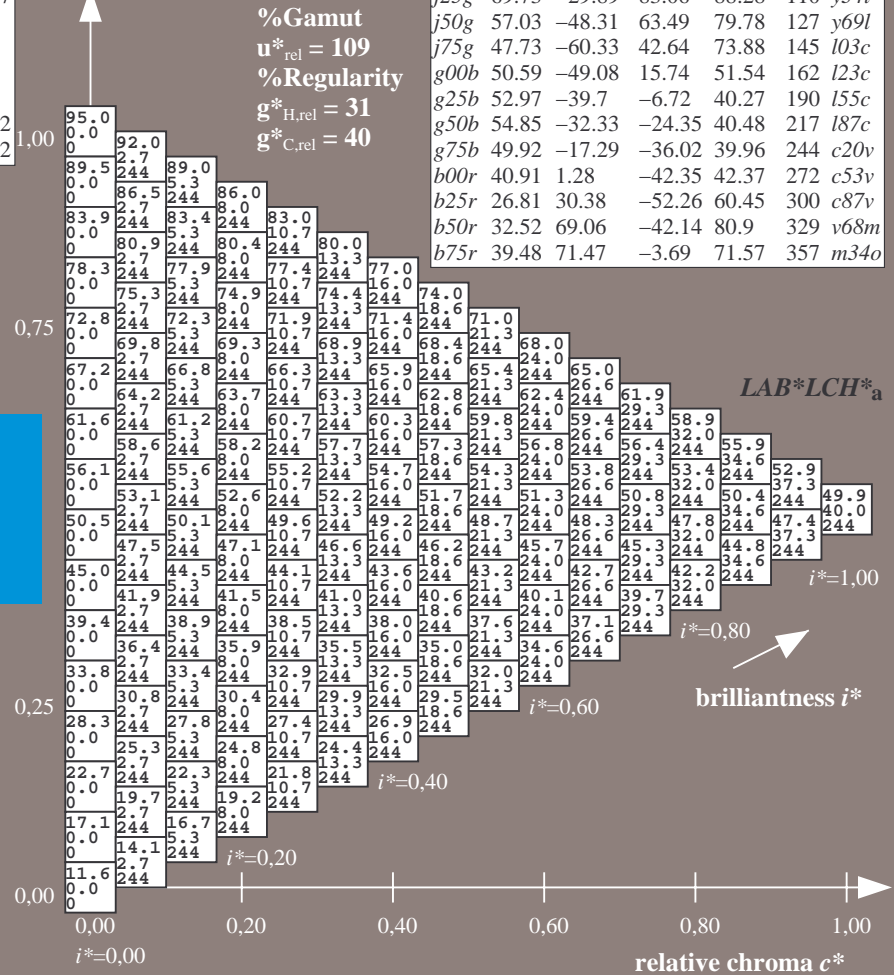
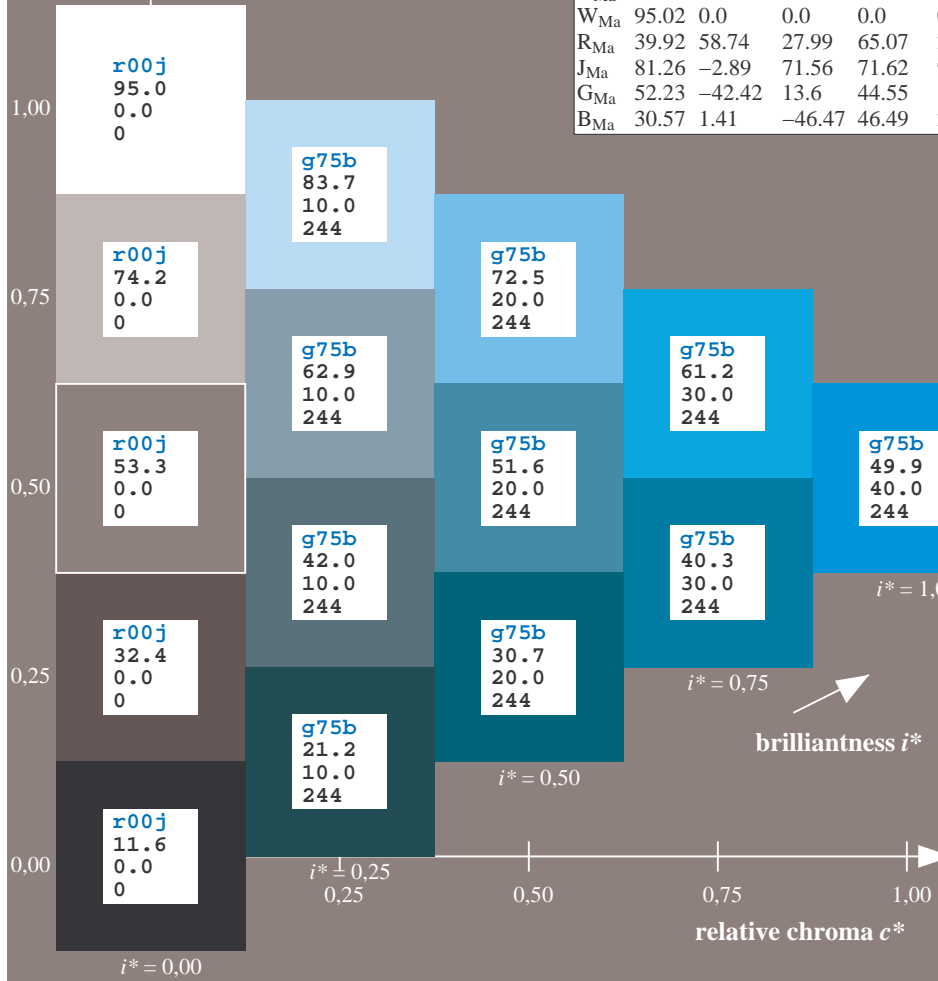
$lab^*rgb^*_Ma: 0.0 0.5 1.0$

$lab^*olv^*_Ma: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

$LAB^*LCH^*_a$

$i^* = 1.00$

$i^* = 0.80$

brilliantness  $i^*$

$i^* = 0.60$

$i^* = 0.40$

$i^* = 0.20$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$   
 $LAB^*LCH^*_a$

data for any colour:

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

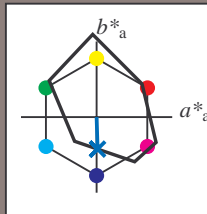
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 41 \ 1 \ -42$

$LAB^*LCH^*_Ma: 41 \ 42 \ 271$

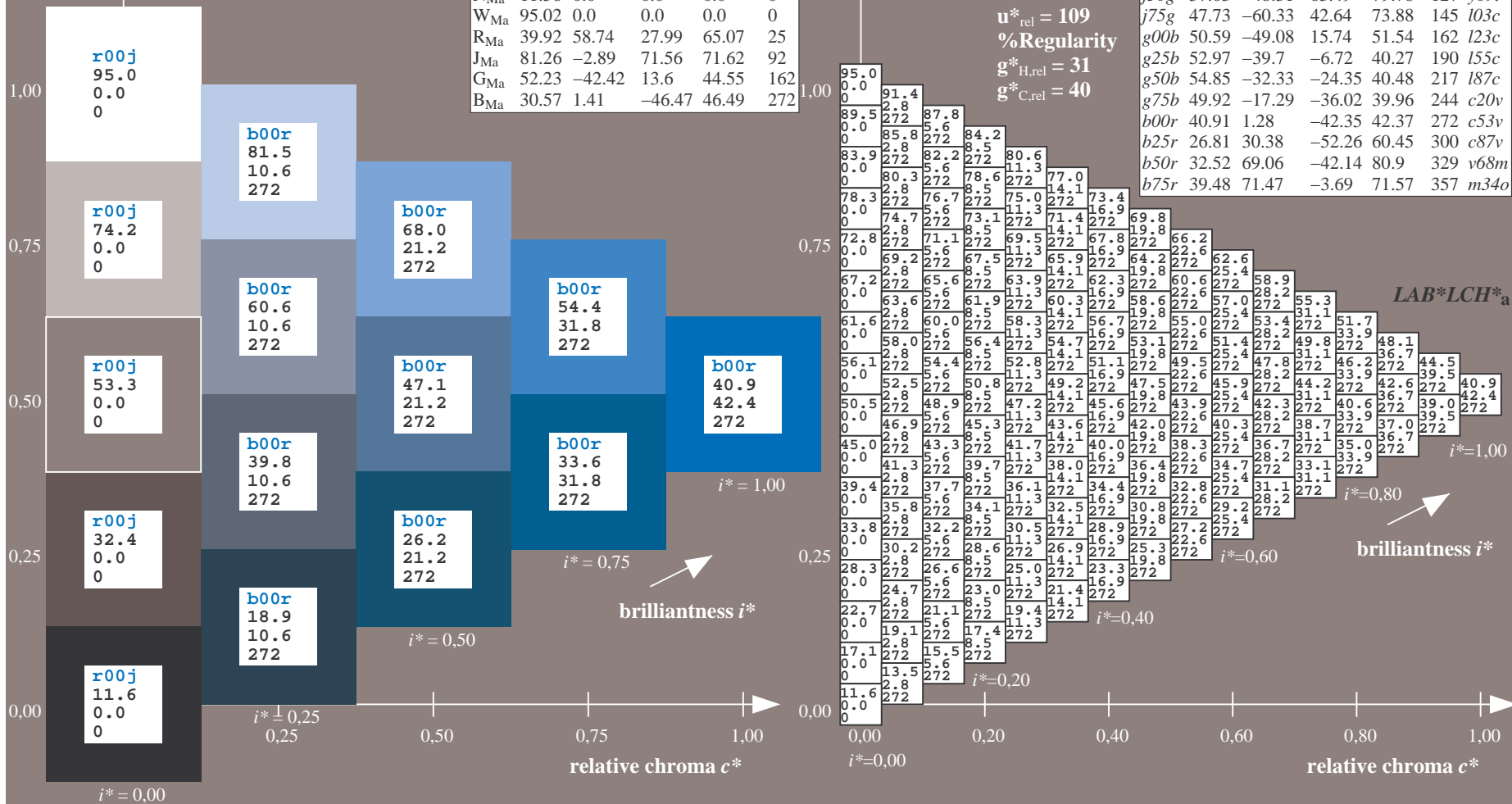
$lab^*rgb^*_Ma: 0.0 \ 0.0 \ 1.0$

$lab^*olv^*_Ma: 0.0 \ 0.47 \ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	i03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$   
 $LAB^*LCH^*_a$

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

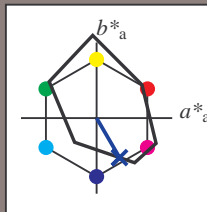
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $i^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 27\ 30\ -52$

$LAB^*LCH^*_Ma: 27\ 60\ 300$

$lab^*rgb^*_Ma: 0.5\ 0.0\ 1.0$

$lab^*olv^*_Ma: 0.0\ 0.12\ 1.0$

triangle lightness  $i^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

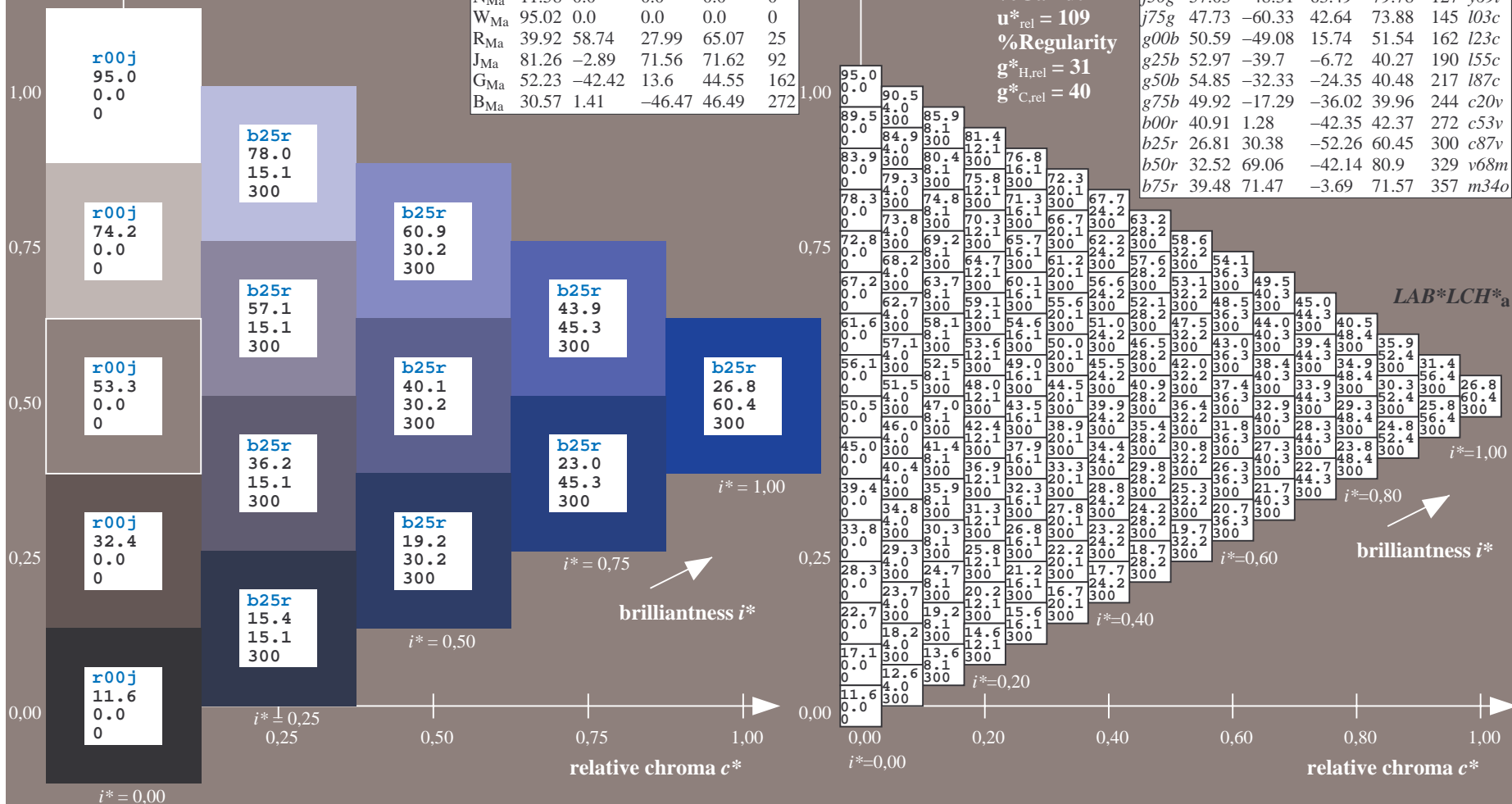
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$   
 data for any colour:

$u^*_e = b50r$   
 $LAB^*LCH^*_a$

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

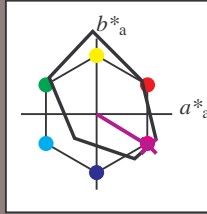
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 33\ 69\ -42$

$LAB^*LCH^*_Ma: 33\ 81\ 328$

$lab^*rgb^*_Ma: 1.0\ 0.0\ 1.0$

$lab^*olv^*_Ma: 0.69\ 0.0\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

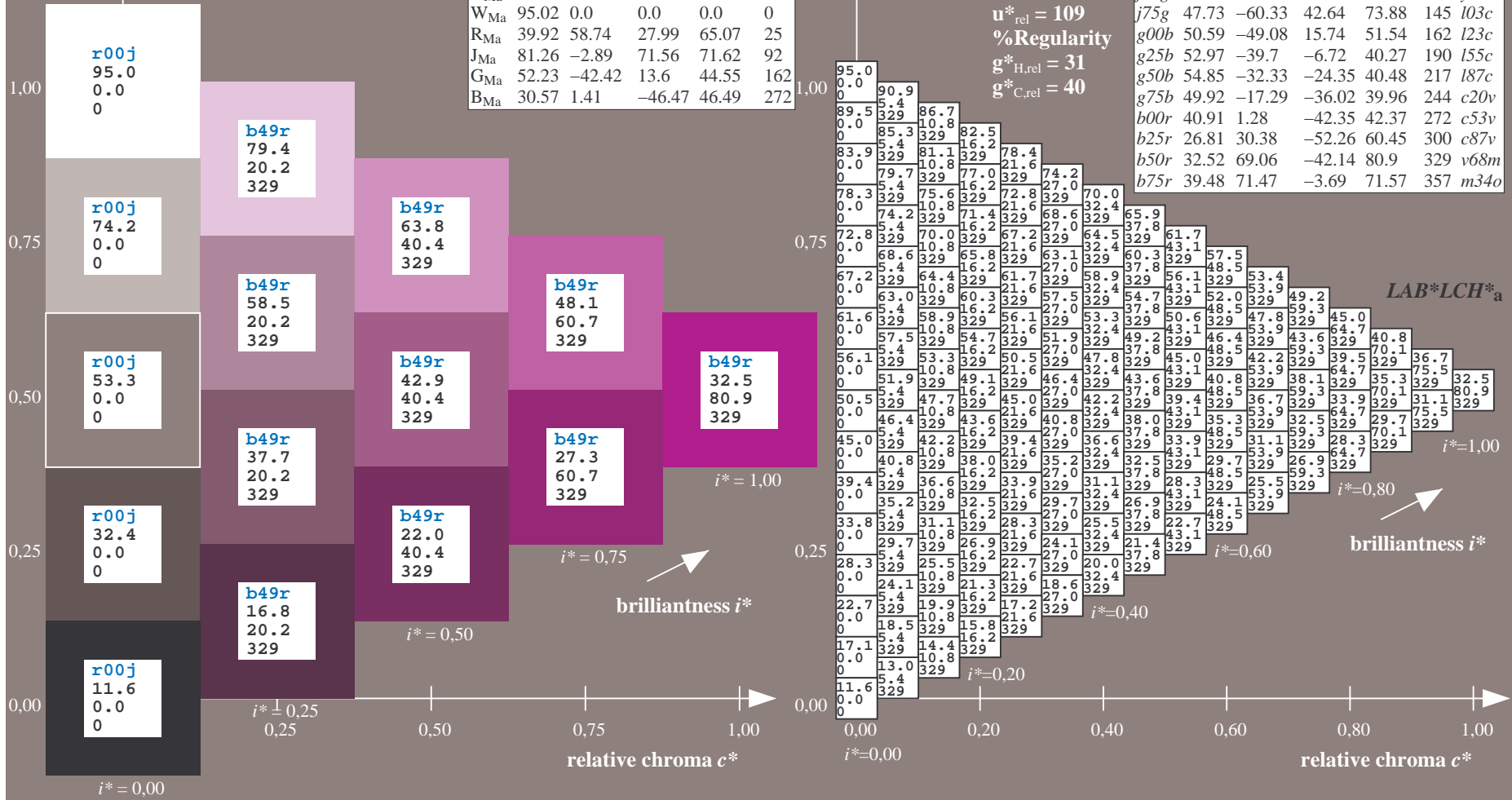
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$   
 $LAB^*LCH^*_a$

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

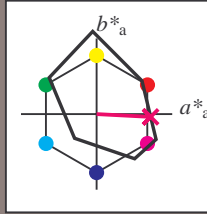
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 39\ 71\ -4$

$LAB^*LCH^*_Ma: 39\ 72\ 357$

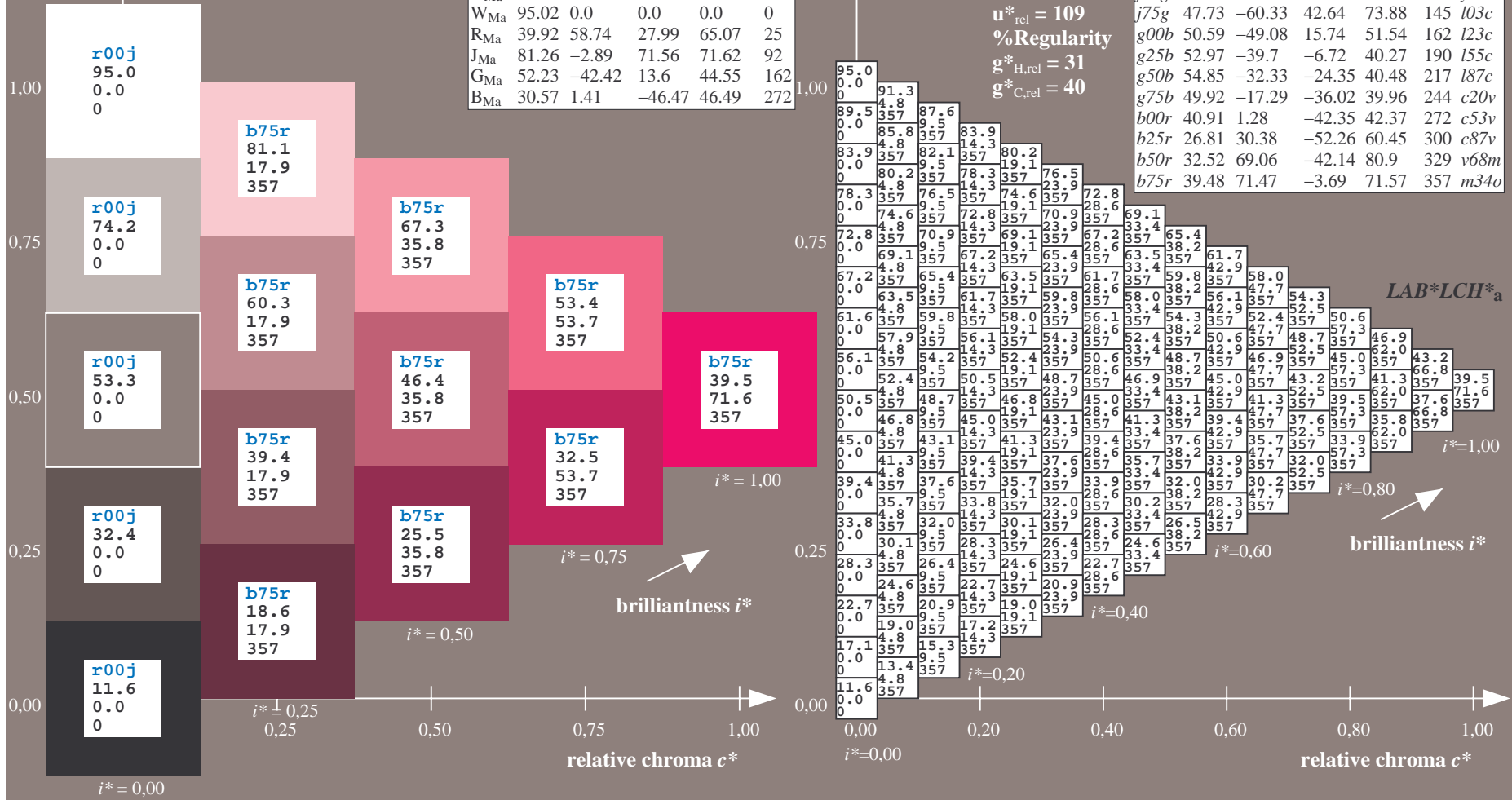
$lab^*rgb^*_Ma: 1.0\ 0.0\ 0.5$

$lab^*olv^*_Ma: 1.0\ 0.0\ 0.66$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o





	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	b	c	d	e	f	g	h	i	j	k	LAB*LCH*a																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
01	11.6	16.0	20.5	24.9	29.4	33.8	38.2	42.7	47.1	51.5	55.9	60.3	64.7	69.1	73.5	77.9	82.3	86.7	91.1	95.5	99.9	104.3	108.7	113.1	117.5	121.9	126.3	130.7	135.1	139.5	143.9	148.3	152.7	157.1	161.5	165.9	170.3	174.7	179.1	183.5	187.9	192.3	196.7	201.1	205.5	209.9	214.3	218.7	223.1	227.5	231.9	236.3	240.7	245.1	249.5	253.9	258.3	262.7	267.1	271.5	275.9	280.3	284.7	289.1	293.5	297.9	302.3	306.7	311.1	315.5	319.9	324.3	328.7	333.1	337.5	341.9	346.3	350.7	355.1	359.5	363.9	368.3	372.7	377.1	381.5	385.9	390.3	394.7	399.1	403.5	407.9	412.3	416.7	421.1	425.5	429.9	434.3	438.7	443.1	447.5	451.9	456.3	460.7	465.1	469.5	473.9	478.3	482.7	487.1	491.5	495.9	500.3	504.7	509.1	513.5	517.9	522.3	526.7	531.1	535.5	539.9	544.3	548.7	553.1	557.5	561.9	566.3	570.7	575.1	579.5	583.9	588.3	592.7	597.1	601.5	605.9	610.3	614.7	619.1	623.5	627.9	632.3	636.7	641.1	645.5	649.9	654.3	658.7	663.1	667.5	671.9	676.3	680.7	685.1	689.5	693.9	698.3	702.7	707.1	711.5	715.9	720.3	724.7	729.1	733.5	737.9	742.3	746.7	751.1	755.5	759.9	764.3	768.7	773.1	777.5	781.9	786.3	790.7	795.1	799.5	803.9	808.3	812.7	817.1	821.5	825.9	830.3	834.7	839.1	843.5	847.9	852.3	856.7	861.1	865.5	869.9	874.3	878.7	883.1	887.5	891.9	896.3	900.7	905.1	909.5	913.9	918.3	922.7	927.1	931.5	935.9	940.3	944.7	949.1	953.5	957.9	962.3	966.7	971.1	975.5	979.9	984.3	988.7	993.1	997.5	1001.9	1006.3	1010.7	1015.1	1019.5	1023.9	1028.3	1032.7	1037.1	1041.5	1045.9	1050.3	1054.7	1059.1	1063.5	1067.9	1072.3	1076.7	1081.1	1085.5	1089.9	1094.3	1098.7	1103.1	1107.5	1111.9	1116.3	1120.7	1125.1	1129.5	1133.9	1138.3	1142.7	1147.1	1151.5	1155.9	1160.3	1164.7	1169.1	1173.5	1177.9	1182.3	1186.7	1191.1	1195.5	1199.9	1204.3	1208.7	1213.1	1217.5	1221.9	1226.3	1230.7	1235.1	1239.5	1243.9	1248.3	1252.7	1257.1	1261.5	1265.9	1270.3	1274.7	1279.1	1283.5	1287.9	1292.3	1296.7	1301.1	1305.5	1309.9	1314.3	1318.7	1323.1	1327.5	1331.9	1336.3	1340.7	1345.1	1349.5	1353.9	1358.3	1362.7	1367.1	1371.5	1375.9	1380.3	1384.7	1389.1	1393.5	1397.9	1402.3	1406.7	1411.1	1415.5	1419.9	1424.3	1428.7	1433.1	1437.5	1441.9	1446.3	1450.7	1455.1	1459.5	1463.9	1468.3	1472.7	1477.1	1481.5	1485.9	1490.3	1494.7	1499.1	1503.5	1507.9	1512.3	1516.7	1521.1	1525.5	1529.9	1534.3	1538.7	1543.1	1547.5	1551.9	1556.3	1560.7	1565.1	1569.5	1573.9	1578.3	1582.7	1587.1	1591.5	1595.9	1600.3	1604.7	1609.1	1613.5	1617.9	1622.3	1626.7	1631.1	1635.5	1639.9	1644.3	1648.7	1653.1	1657.5	1661.9	1666.3	1670.7	1675.1	1679.5	1683.9	1688.3	1692.7	1697.1	1701.5	1705.9	1710.3	1714.7	1719.1	1723.5	1727.9	1732.3	1736.7	1741.1	1745.5	1749.9	1754.3	1758.7	1763.1	1767.5	1771.9	1776.3	1780.7	1785.1	1789.5	1793.9	1798.3	1802.7	1807.1	1811.5	1815.9	1820.3	1824.7	1829.1	1833.5	1837.9	1842.3	1846.7	1851.1	1855.5	1859.9	1864.3	1868.7	1873.1	1877.5	1881.9	1886.3	1890.7	1895.1	1899.5	1903.9	1908.3	1912.7	1917.1	1921.5	1925.9	1930.3	1934.7	1939.1	1943.5	1947.9	1952.3	1956.7	1961.1	1965.5	1969.9	1974.3	1978.7	1983.1	1987.5	1991.9	1996.3	2000.7	2005.1	2009.5	2013.9	2018.3	2022.7	2027.1	2031.5	2035.9	2040.3	2044.7	2049.1	2053.5	2057.9	2062.3	2066.7	2071.1	2075.5	2079.9	2084.3	2088.7	2093.1	2097.5	2101.9	2106.3	2110.7	2115.1	2119.5	2123.9	2128.3	2132.7	2137.1	2141.5	2145.9	2150.3	2154.7	2159.1	2163.5	2167.9	2172.3	2176.7	2181.1	2185.5	2189.9	2194.3	2198.7	2203.1	2207.5	2211.9	2216.3	2220.7	2225.1	2229.5	2233.9	2238.3	2242.7	2247.1	2251.5	2255.9	2260.3	2264.7	2269.1	2273.5	2277.9	2282.3	2286.7	2291.1	2295.5	2299.9	2304.3	2308.7	2313.1	2317.5	2321.9	2326.3	2330.7	2335.1	2339.5	2343.9	2348.3	2352.7	2357.1	2361.5	2365.9	2370.3	2374.7	2379.1	2383.5	2387.9	2392.3	2396.7	2401.1	2405.5	2409.9	2414.3	2418.7	2423.1	2427.5	2431.9	2436.3	2440.7	2445.1	2449.5	2453.9	2458.3	2462.7	2467.1	2471.5	2475.9	2480.3	2484.7	2489.1	2493.5	2497.9	2502.3	2506.7	2511.1	2515.5	2519.9	2524.3	2528.7	2533.1	2537.5	2541.9	2546.3	2550.7	2555.1	2559.5	2563.9	2568.3	2572.7	2577.1	2581.5	2585.9	2590.3	2594.7	2599.1	2603.5	2607.9	2612.3	2616.7	2621.1	2625.5	2629.9	2634.3	2638.7	2643.1	2647.5	2651.9	2656.3	2660.7	2665.1	2669.5	2673.9	2678.3	2682.7	2687.1	2691.5	2695.9	2700.3	2704.7	2709.1	2713.5	2717.9	2722.3	2726.7	2731.1	2735.5	2739.9	2744.3	2748.7	2753.1	2757.5	2761.9	2766.3	2770.7	2775.1	2779.5	2783.9	2788.3	2792.7	2797.1	2801.5	2805.9	2810.3	2814.7	2819.1	2823.5	2827.9	2832.3	2836.7	2841.1	2845.5	2849.9	2854.3	2858.7	2863.1	2867.5	2871.9	2876.3	2880.7	2885.1	2889.5	2893.9	2898.3	2902.7	2907.1	2911.5	2915.9	2920.3	2924.7	2929.1	2933.5	2937.9	2942.3	2946.7	2951.1	2955.5	2959.9	2964.3	2968.7	2973.1	2977.5	2981.9	2986.3	2990.7	2995.1	2999.5	3003.9	3008.3	3012.7	3017.1	3021.5	3025.9	3030.3	3034.7	3039.1	3043.5	3047.9	3052.3	3056.7	3061.1	3065.5	3069.9	3074.3	3078.7	3083.1	3087.5	3091.9	3096.3	3100.7	3105.1	3109.5	3113.9	3118.3	3122.7	3127.1	3131.5	3135.9	3140.3	3144.7	3149.1	3153.5	3157.9	3162.3	3166.7	3171.1	3175.5	3179.9	3184.3	3188.7	3193.1	3197.5	3201.9	3206.3	3210.7	3215.1	3219.5	3223.9	3228.3	3232.7	3237.1	3241.5	3245.9	3250.3	3254.7	3259.1	3263.5	3267.9	3272.3	3276.7	3281.1	3285.5	3289.9	3294.3	3298.7	3303.1	3307.5	3311.9	3316.3	3320.7	3325.1	3329.5	3333.9	3338.3	3342.7	3347.1	3351.5	3355.9	3360.3	3364.7	3369.1	3373.5	3377.9	3382.3	3386.7	3391.1	3395.5	3399.9	3404.3	3408.7	3413.1	3417.5	3421.9	3426.3	3430.7	3435.1	3439.5	3443.9	3448.3	3452.7	3457.1	3461.5	3465.9	3470.3	3474.7	3479.1	3483.5	3487.9	3492.3	3496.7	3501.1	3505.5	3509.9	3514.3	3518.7	3523.1	3527.5	3531.9	3536.3	3540.7	3545.1	3549.5	3553.9	3558.3	3562.7	3567.1	3571.5	3575.9	3580.3	3584.7	3589.1	3593.5	3597.9	3602.3	3606.7	3611.1	3615.5	3619.9	3624.3	3628.7	3633.1	3637.5	3641.9	3646.3	3650.7	3655.1	3659.5	3663.9	3668.3	3672.7	3677.1	3681.5	3685.9	3690.3	3694.7	3699.1	3703.5	3707.9	3712.3	3716.7	3721.1	3725.5	3729.9	3734.3	3738.7	3743.1	3747.5	3751.9	3756.3	3760.7	3765.1	3769.5	3773.9	3778.3	3782.7	3787.1	3791.5	3795.9	3800.3	3804.7	3809.1	3813.5	3817.9	3822.3	3826.7	3831.1	3835.5	3839.9	3844.3	3848.7	3853.1	3857.5	3861.9	3866.3	3870.7	3875.1	3879.5	3883.9	3888.3	3892.7	3897.1	3901.5	3905.9	3910.3	3914.7	3919.1	3923.5	3927.9	3932.3	3936.7	3941.1	3945.5	3949.9	3954.3	3958.7	3963.1	3967.5	3971.9	3976.3	3980.7	3985.1	3989.5	3993.9	3998.3	4002.7	4007.1	4011.5	4015.9	4020.3	4024.7	4029.1	4033.5	4037.9	4042.3	4046.7	4051.1	4055.5	4059.9	4064.3	4068.7	4073.1	4077.5	4081.9	4086.3	4090.7	4095.1	4099.5	4103.9	4108.3	4112.7	4117.1	4121.5	4125.9	4130.3	4134.7	4139.1	4143.5	4147.9	4152.3	4156.7	4161.1	4165.5	4169.9	4174.3	4178.7	4183.1	4187.5	4191.9	4196.3	4200.7	4205.1	4209.5	4213.9	4218.3	4222.7	4227.1	4231.5	4235.9	4240.3	4244.7	4249.1	4253.5	4257.9	4262.3	4266.7	4271.1	4275.5	4279.9	4284.3	4288.7	4293.1	4297.5	4301.9	4306.3	4310.7	4315.1	4319.5	4323.9	4328.3	4332.7	4337.1	4341.5	4345.9	4350.3	4354.7	4359.1	4363.5	4367.9	4372.3	4376.7	4381.1	4385.5	4389.9	4394.3	4398.7	4403.1	4407.5	4411.9	4416.3	4420.7	4425.1	4429.5	4433.9	4438.3	4442.7	4447.1	4451.5	4455.9	4460.3	4464.7	4469.1	4473.5	4477.9	4482.3	4486.7	4491.1	4495.5	4499.9	4504.3	4508.7	4513.1	4517.5	4521.9	4526.3	4530.7	4535.1	4539.5	4543.9	4548.3	4552.7	4557.1	4561.5	4565.9	4570.3	4574.7	4579.1	4583.5	4587.9	4592.3	4596.7	4601.1	4605.5	4609.9	4614.3	4618.7	4623.1	4627.5	4631.9	4636.3	4640.7	4645.1	4649.5	4653.9	4658.3	4662.7	4667.1	4671.5	4675.9	4680.3	4684.7	4689.1	4693.5	4697.9	4702.3	4706.7	4711.1	4715.5	4719.9	4724.3	4728.7	4733.1	4737.5	4741.9	4746.3	4750.7	4755.1	4759.5	4763.9	4768.3	4772.7	4777.1	4781.5	4785.9	4790.3	4794.7	4799.1	4803.5	4807.9	4812.3	4816.7	4821.1	4825.5	4829.9	4834.3	4838.7	4843.1	4847.5	4851.9	4856.3	4860.7	4865.1	4869.5	4873.9	4878.3	4882.7	4887.1	4891.5	4895.9	4900.3	4904.7	4909.1	4913.5	4917.9	4922.3	4926.7	4931.1	4935.5	4939.9	4944.3	4948.7	4953.1



Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15

elementary hue text:

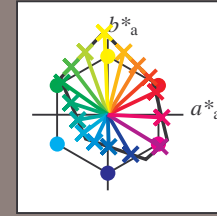
$u^*_e = 16$  hues *r00j, r25j, ..., b75r*

contrast reduction factor:

$c_R = 1.0$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut

$u^*_{rel} = 109$

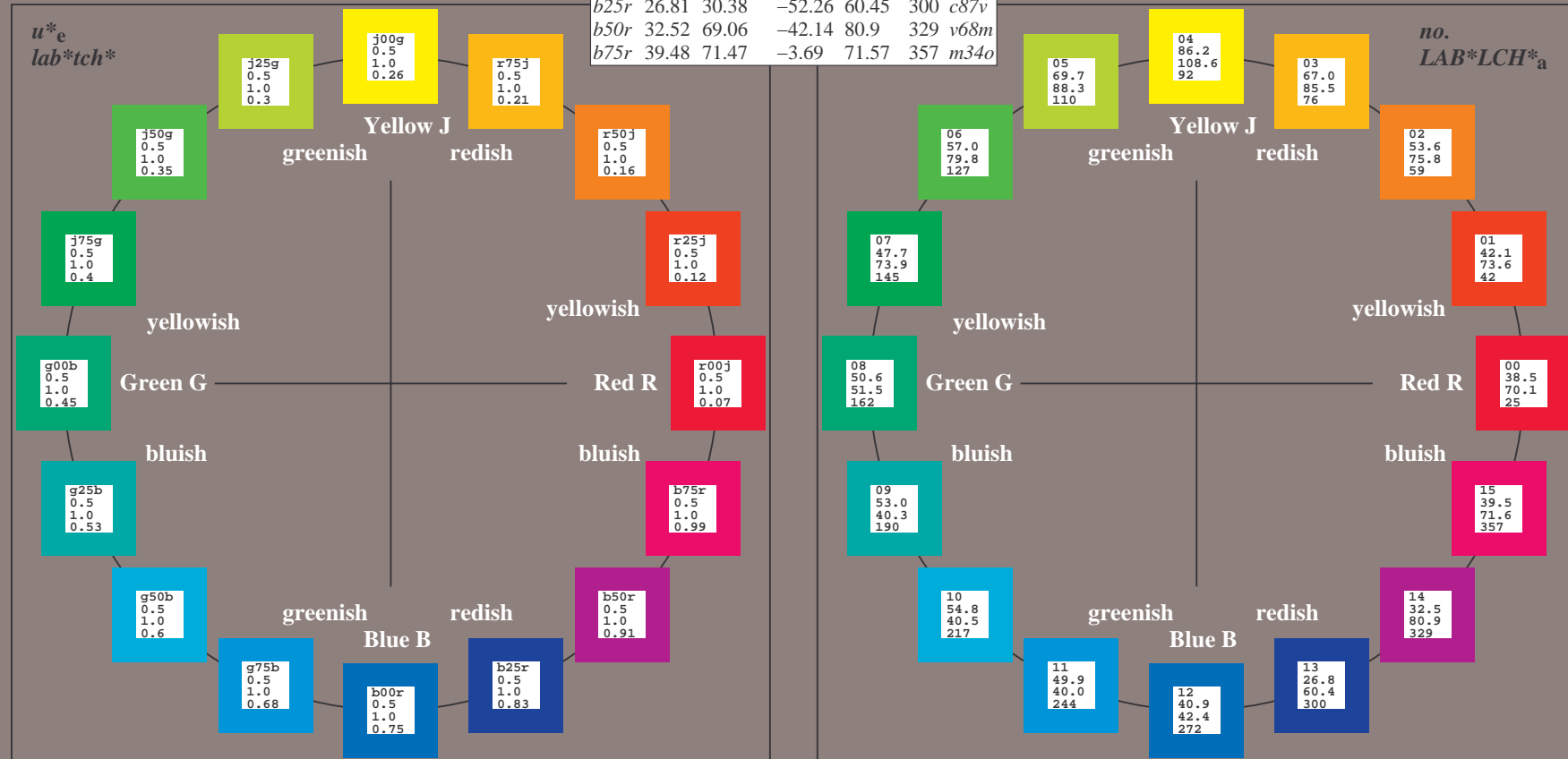
%Regularity

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

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

FRS12\_95a; adapted (a) CIELAB data

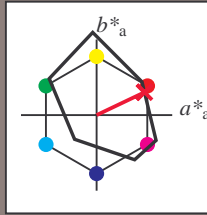
Name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	38.06	60.0	44.0	74.4	36
YMa	86.77	-5.17	109.32	109.44	93
LMa	47.13	-62.67	48.24	79.09	142
CMa	55.66	-29.14	-31.99	43.27	228
VMa	17.15	50.3	-59.04	77.57	310
MMa	40.37	78.64	-33.5	85.48	337
NMa	11.58	0.0	0.0	0.0	0
WMa	95.02	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.89	71.56	71.62	92
GCIE	52.23	-42.42	13.6	44.55	162
BCIE	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 38 63 30

$LAB^*LCH^*_{Ma}$ : 38 70 25

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

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

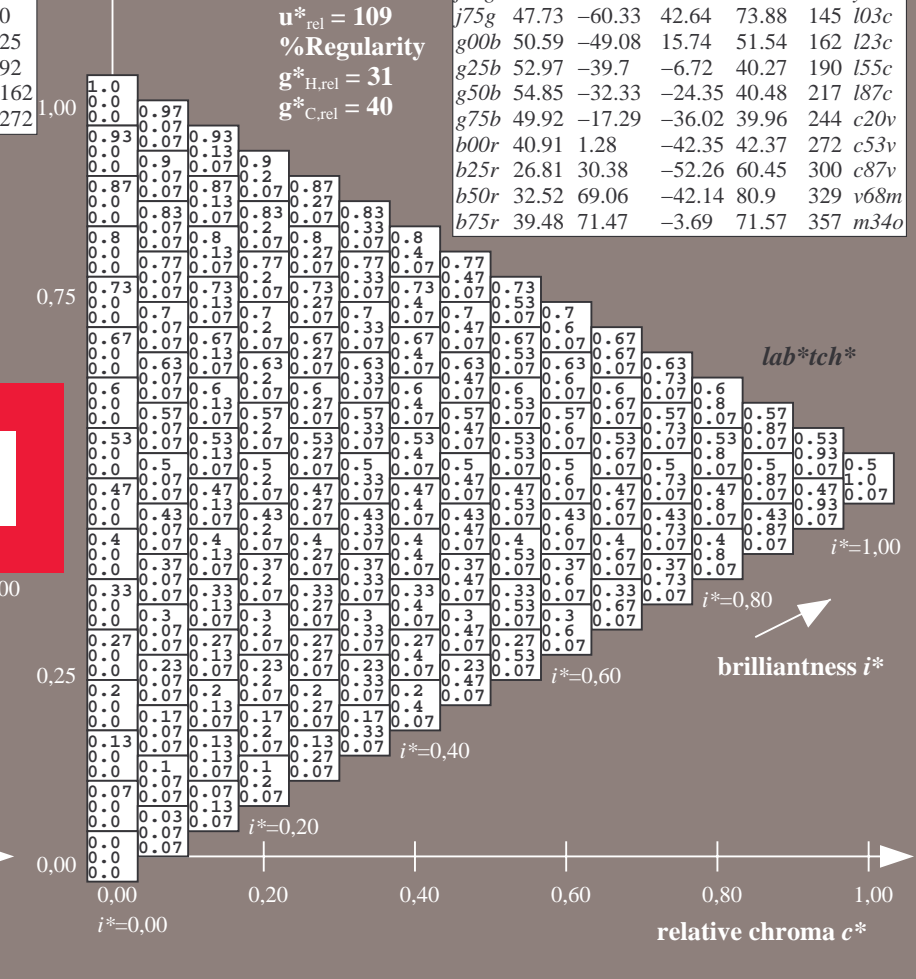
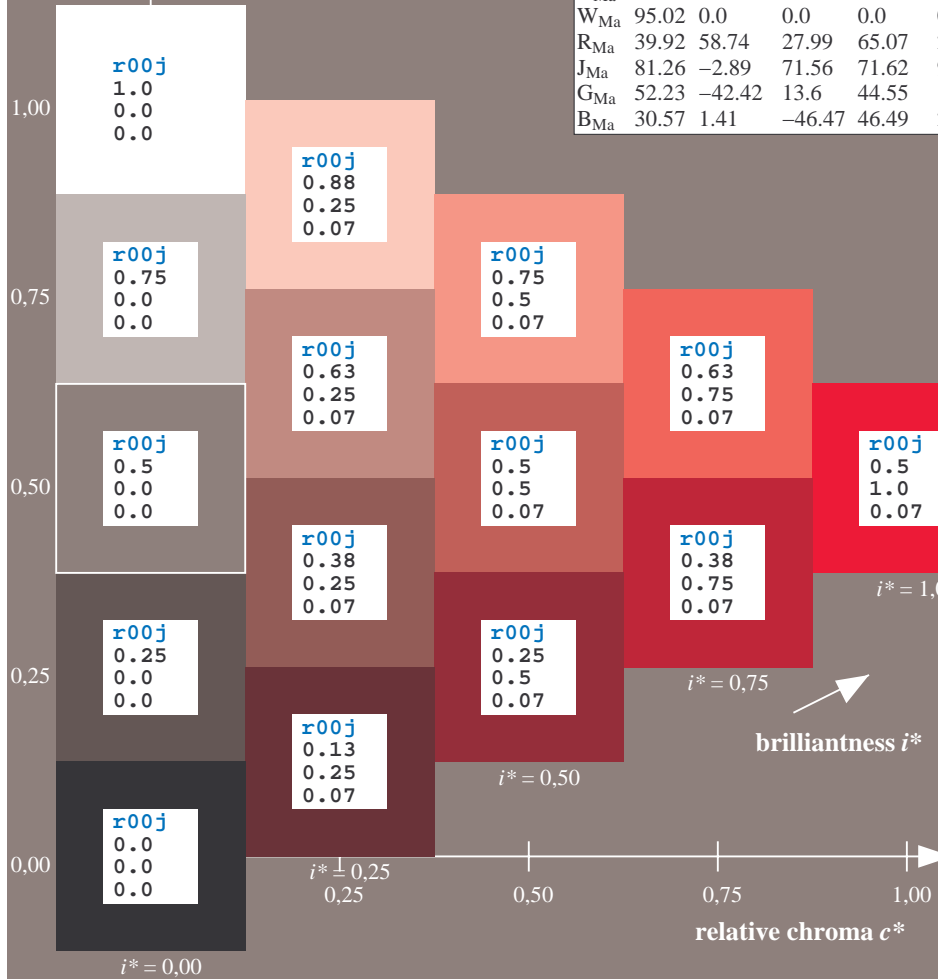
%Gamut

$u^*_{rel} = 109$

%Regularity

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

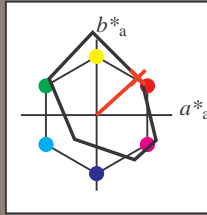
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$u^*_e = r25j$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r25j$   $u^*_d = o10y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 42 55 49

$LAB^*LCH^*_{Ma}$ : 42 74 42

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

$lab^*olv^*_{Ma}$ : 1.0 0.11 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

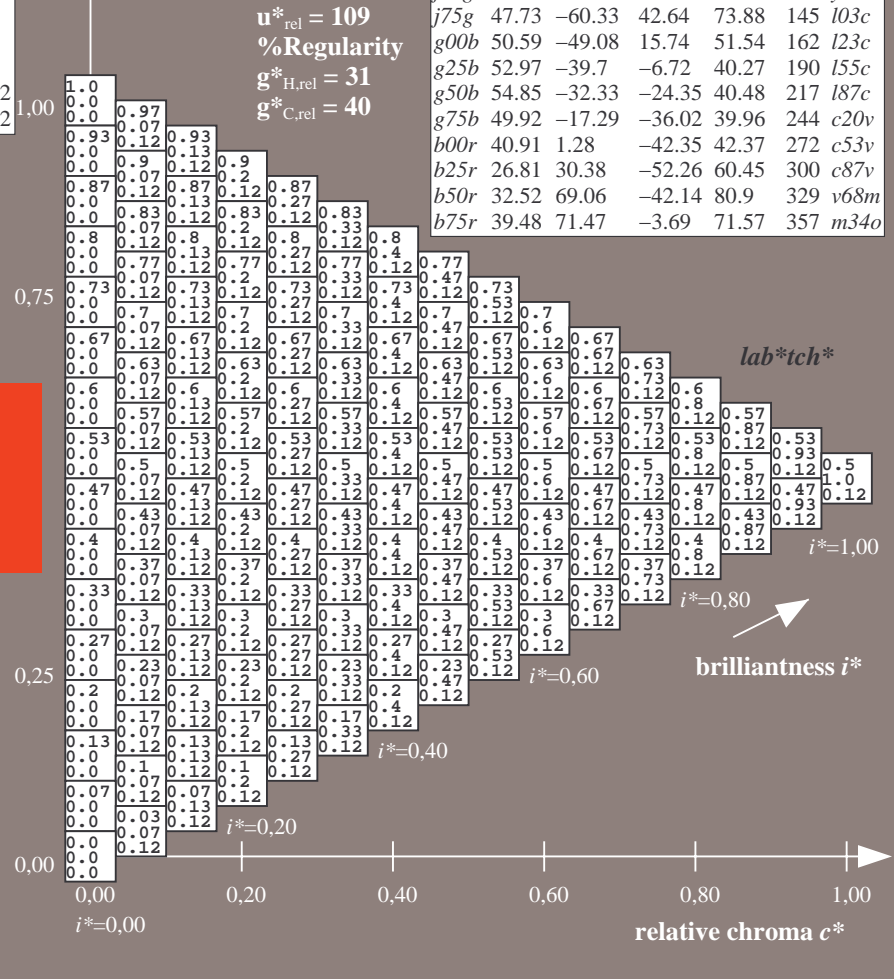
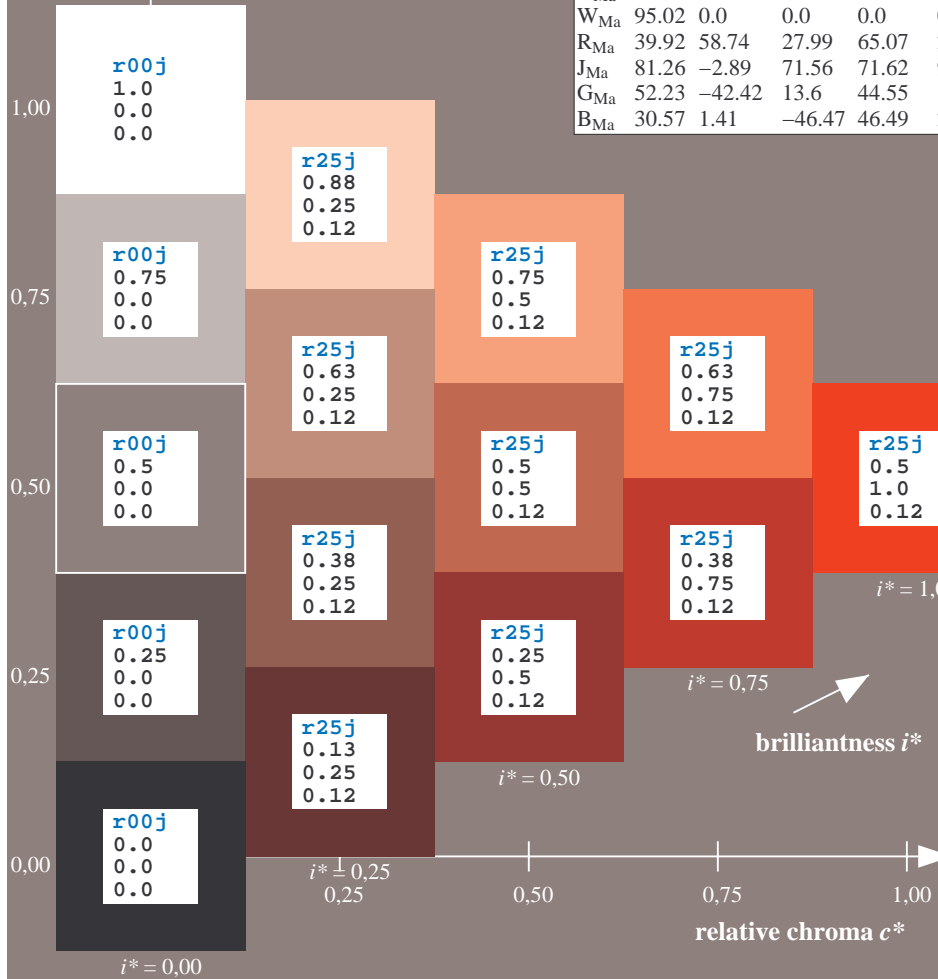
%Gamut

$u^*_{rel} = 109$

%Regularity

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

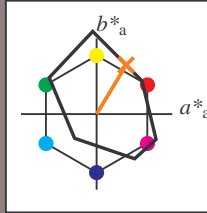
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$   
 data for any colour:

$u^*_e = r50j$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r50j$   $u^*_d = o40y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 54\ 39\ 65$

$LAB^*LCH^*_{Ma}: 54\ 76\ 58$

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

$lab^*olv^*_{Ma}: 1.0\ 0.4\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

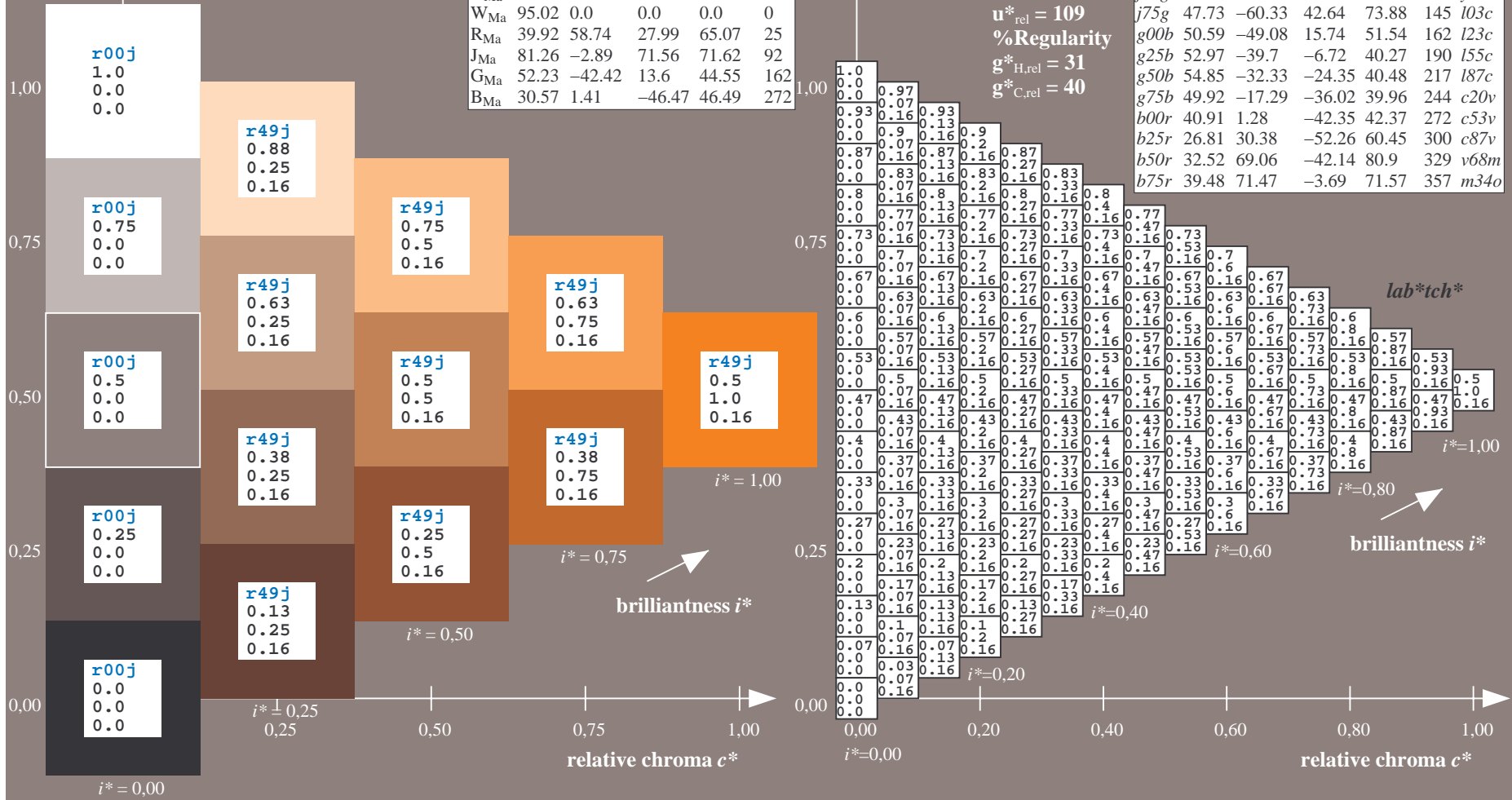
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$   
 $lab^*tch^*$

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

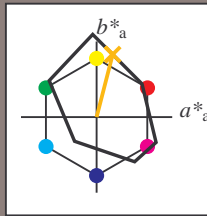
Hue texts:

$u^*_e = r75j$   $u^*_d = o69y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 67 21 83

$LAB^*LCH^*_{Ma}$ : 67 86 75

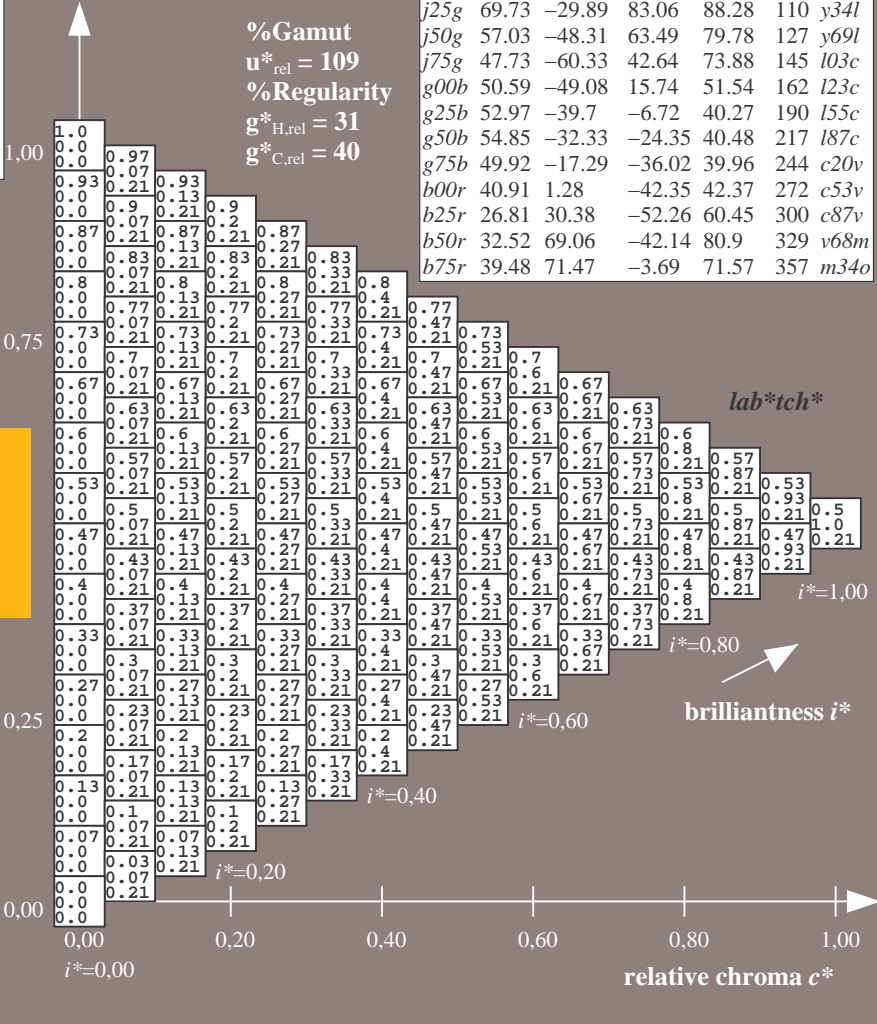
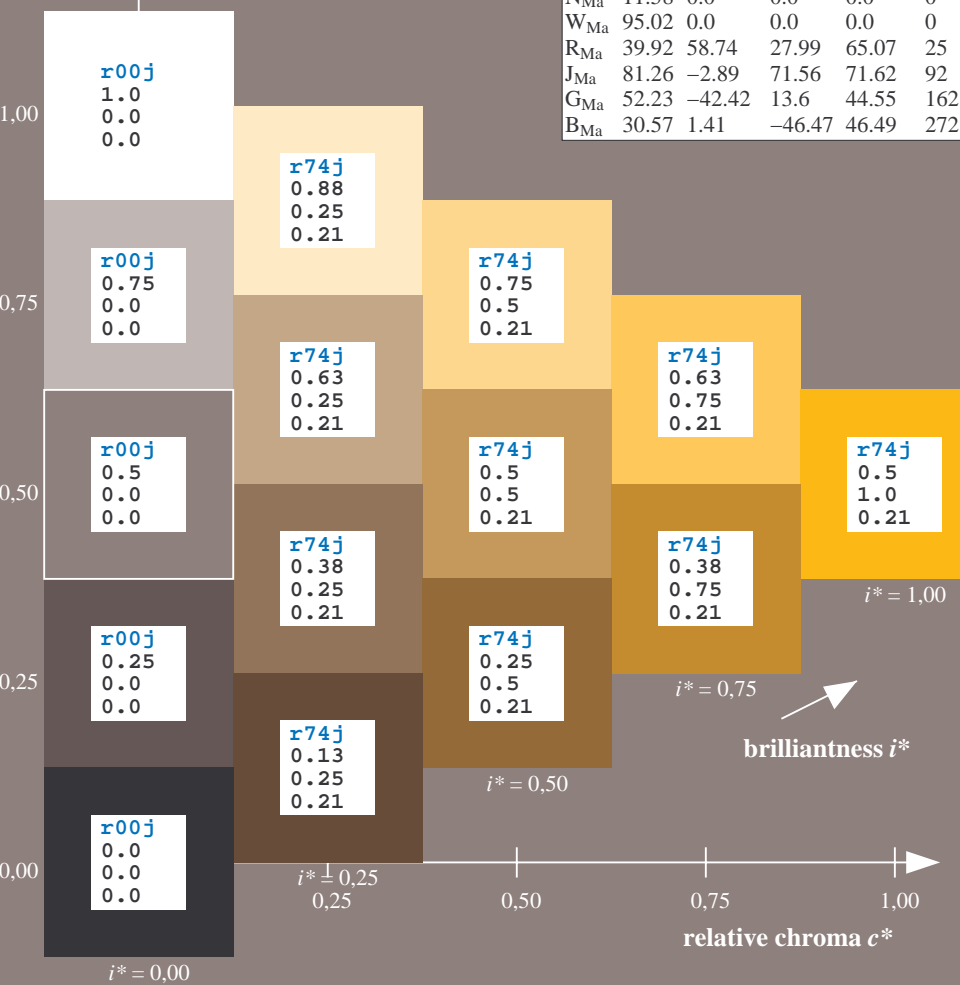
$lab^*rgb^*_{Ma}$ : 1.0 0.75 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.7 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

$lab^*tch^*$

brilliantness  $i^*$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$   
 data for any colour:

$u^*_e = j00g$   
 $lab^*tch^*$

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

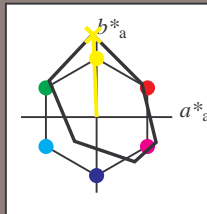
Hue texts:

$u^*_e = j00g$   $u^*_d = o98y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 86 -4 109

$LAB^*LCH^*_{Ma}$ : 86 109 92

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

$lab^*olv^*_{Ma}$ : 1.0 0.99 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

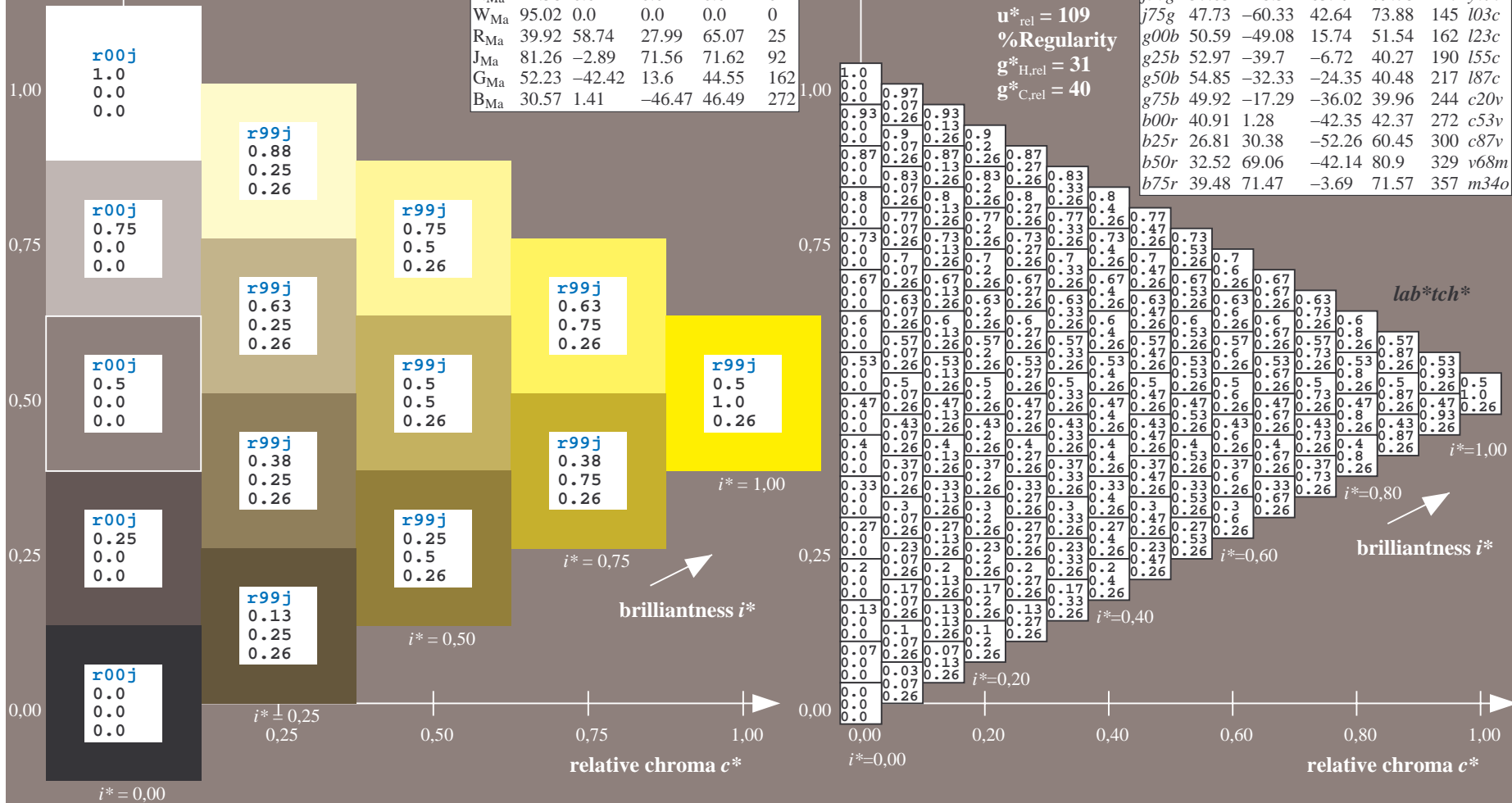
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

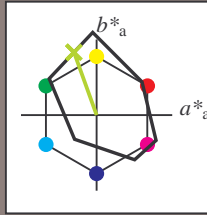




Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j25g$   $u^*_d = y34l$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

$LAB^*LCH^*_{Ma}: 70 88 109$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

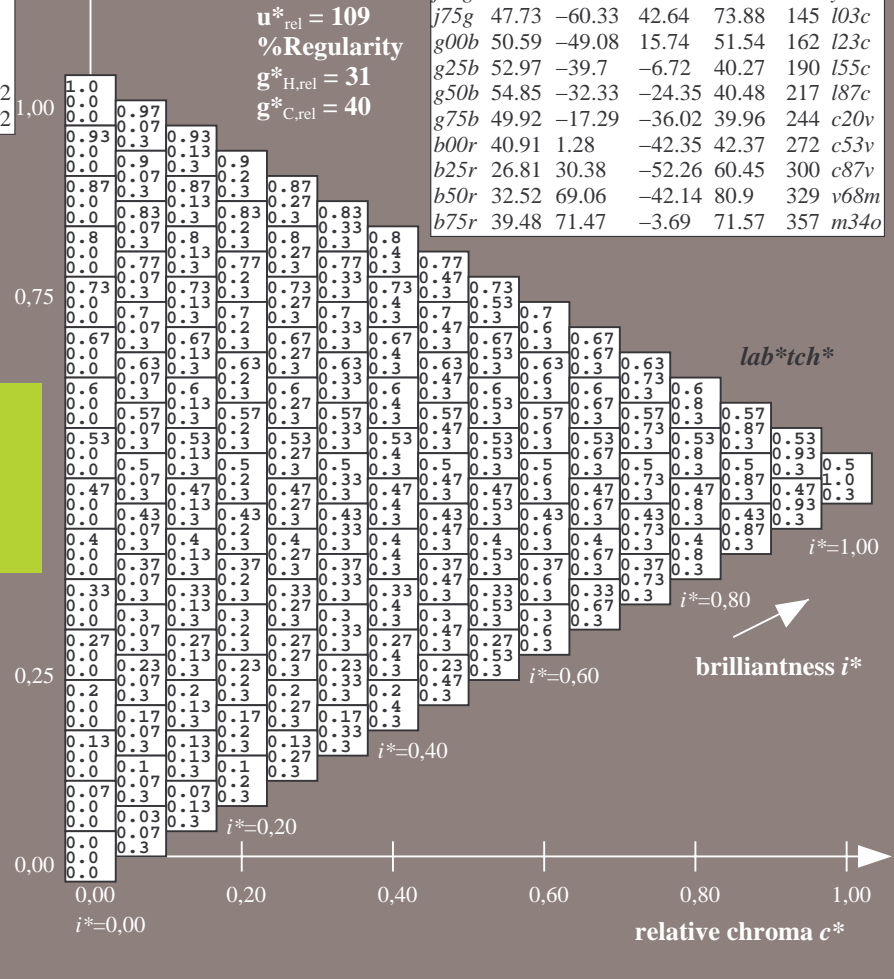
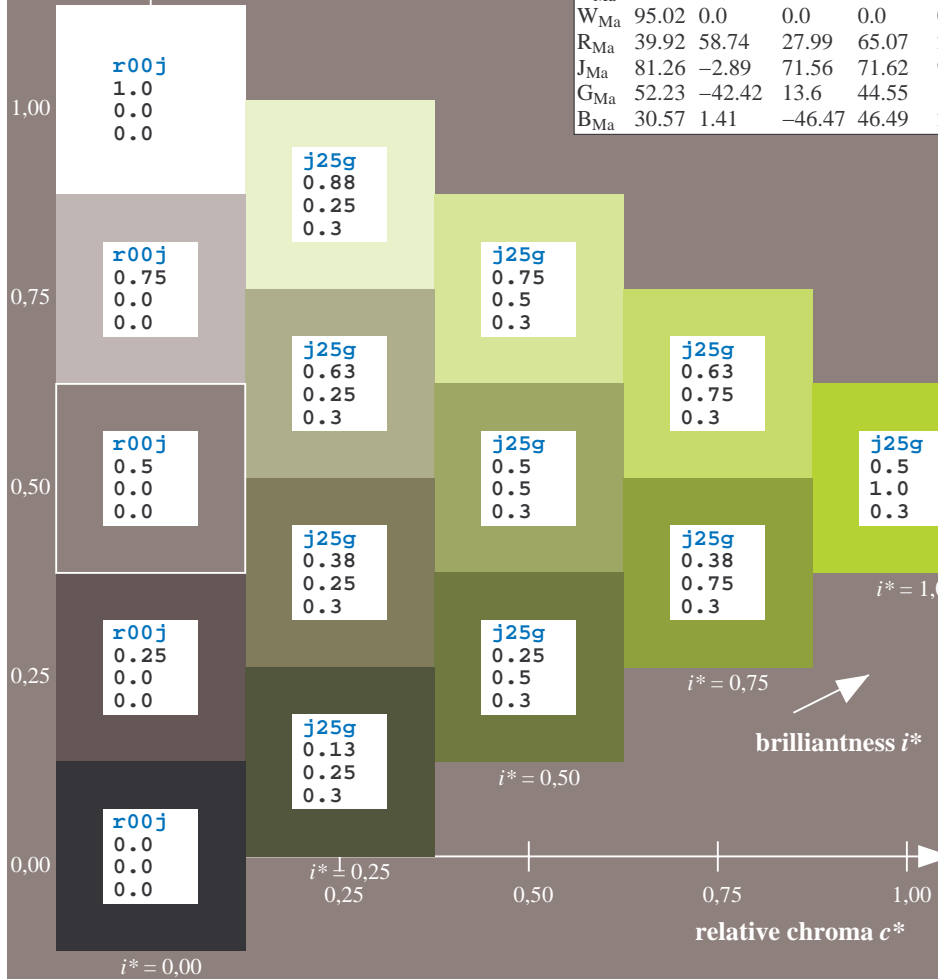
%Gamut

$u^*_{rel} = 109$

%Regularity

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

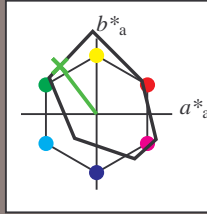
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$   
 data for any colour:

$u^*_e = j50g$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j50g$   $u^*_d = y69l$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 57 -48 63

$LAB^*LCH^*_{Ma}$ : 57 80 127

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

$lab^*olv^*_{Ma}$ : 0.3 1.0 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	i23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

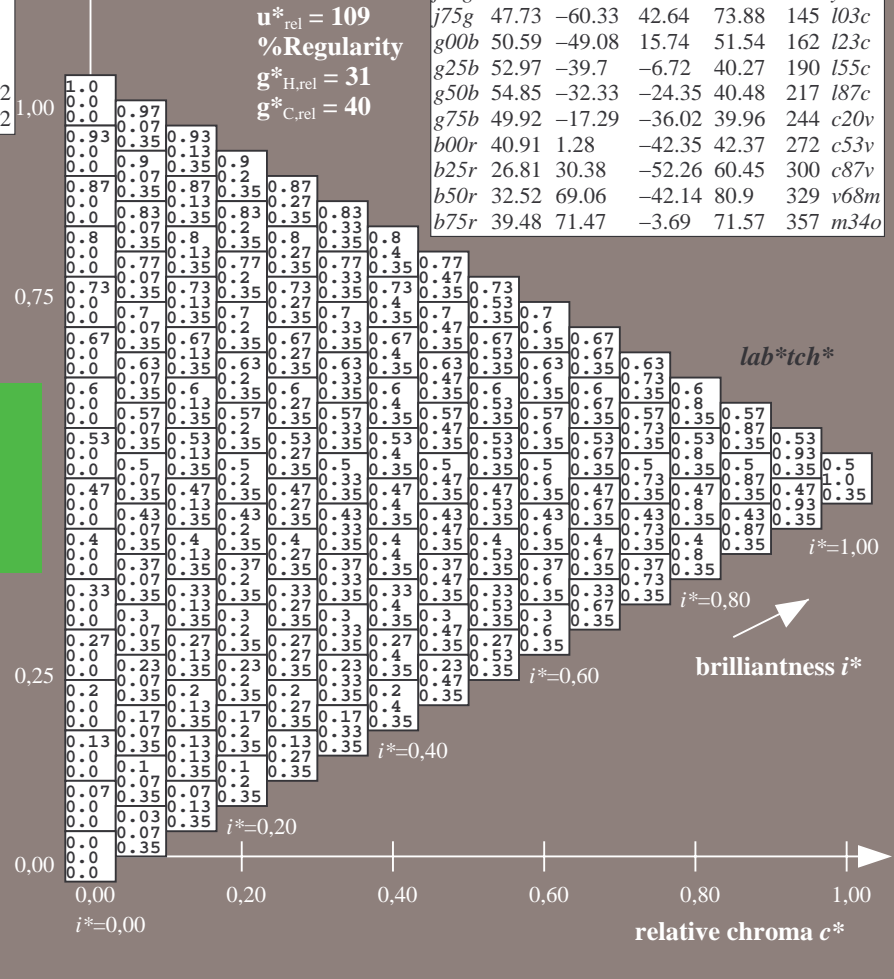
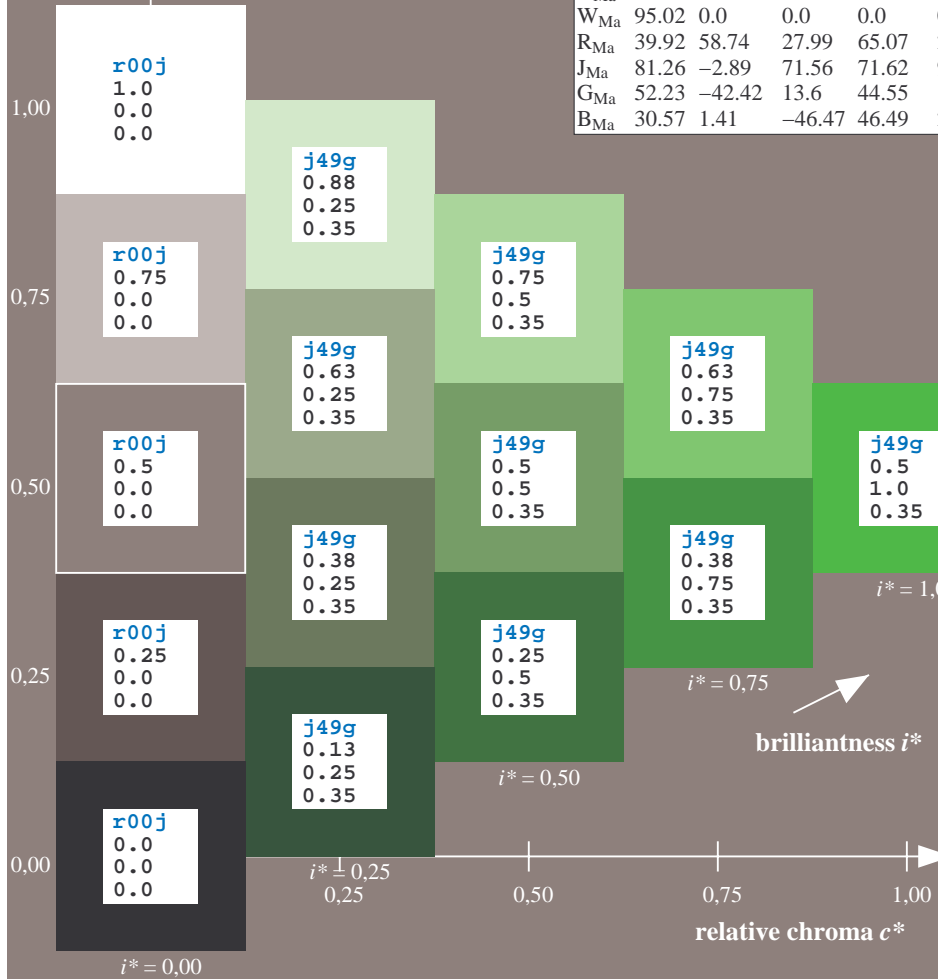
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



$lab^*tch^*$

$i^* = 1.00$

$i^* = 0.80$

$i^* = 0.60$

$i^* = 0.40$

$i^* = 0.20$

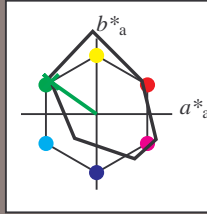
$i^* = 0.00$

brilliantness  $i^*$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

$u^*_e = j75g$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j75g$   $u^*_d = l03c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 48 -60 43

$LAB^*LCH^*_{Ma}$ : 48 74 144

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

$lab^*olv^*_{Ma}$ : 0.0 1.0 0.03

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

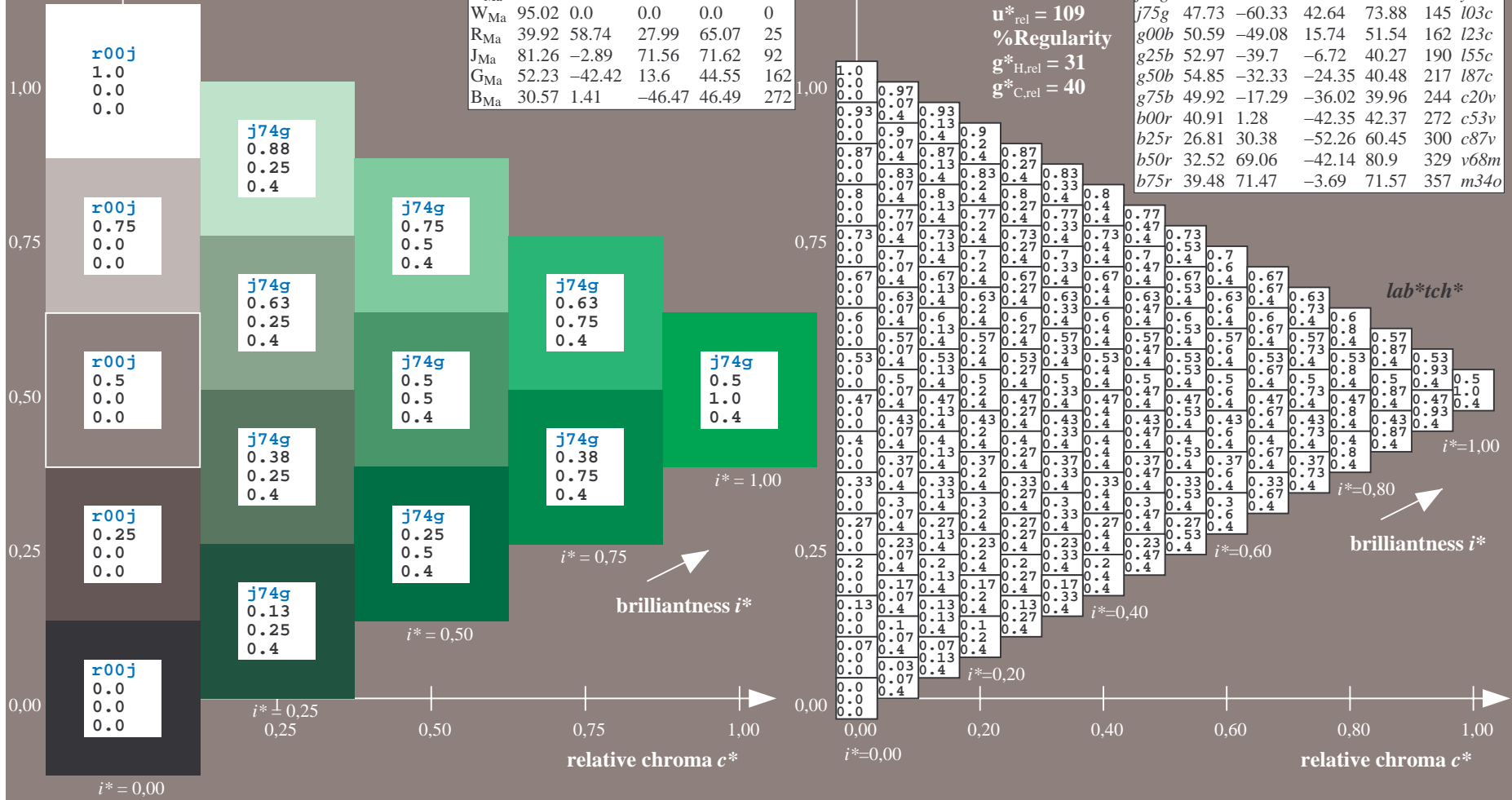
%Gamut

$u^*_{rel} = 109$

%Regularity

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

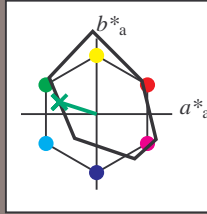
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g00b$   $u^*_d = l23c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 51 -49 16$

$LAB^*LCH^*_{Ma}: 51 52 162$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

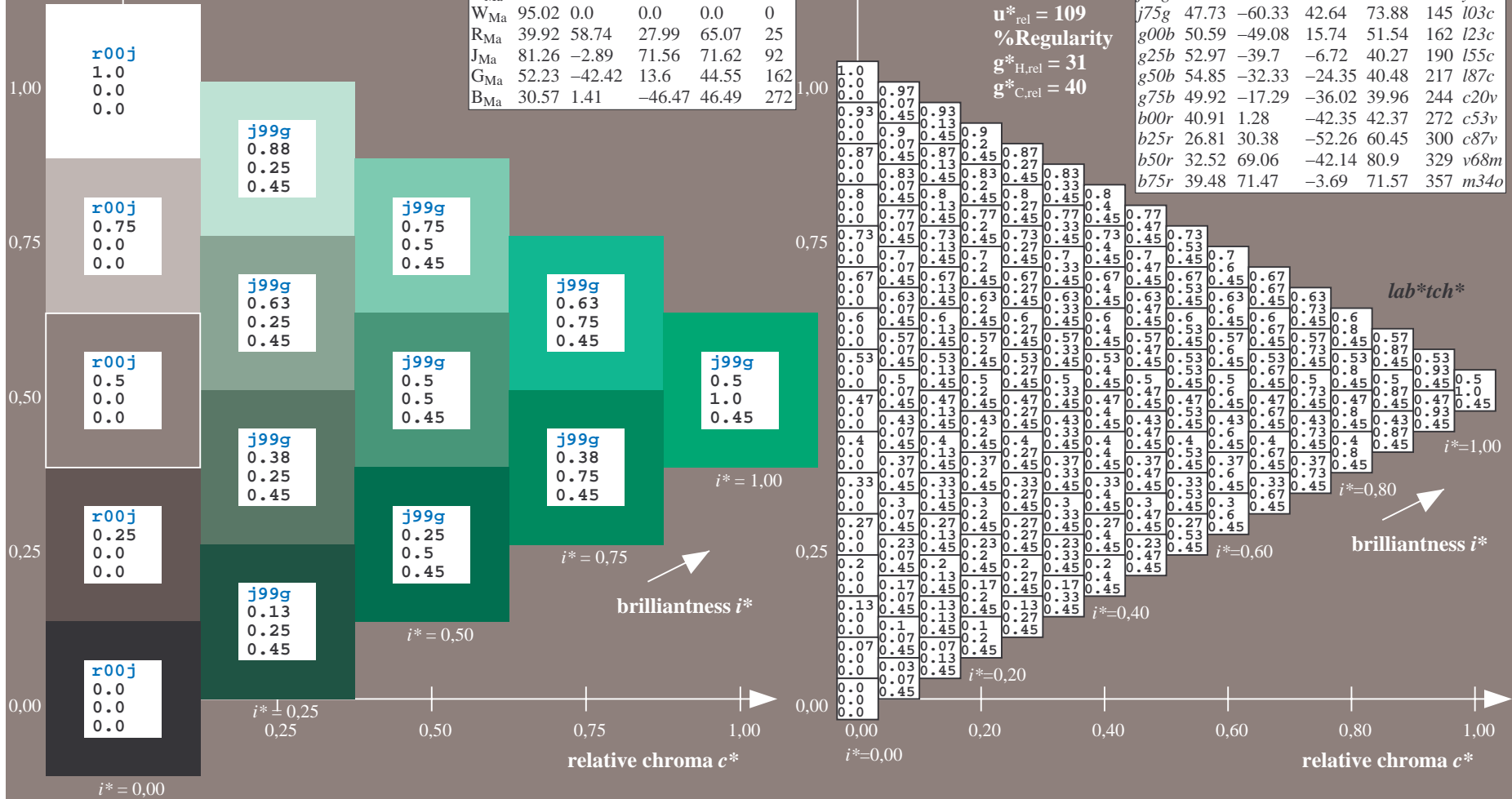
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $lab^*tch^*$

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

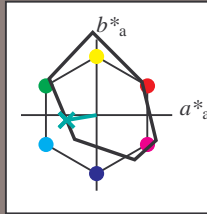
Hue texts:

$u^*_e = g25b$   $u^*_d = l55c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

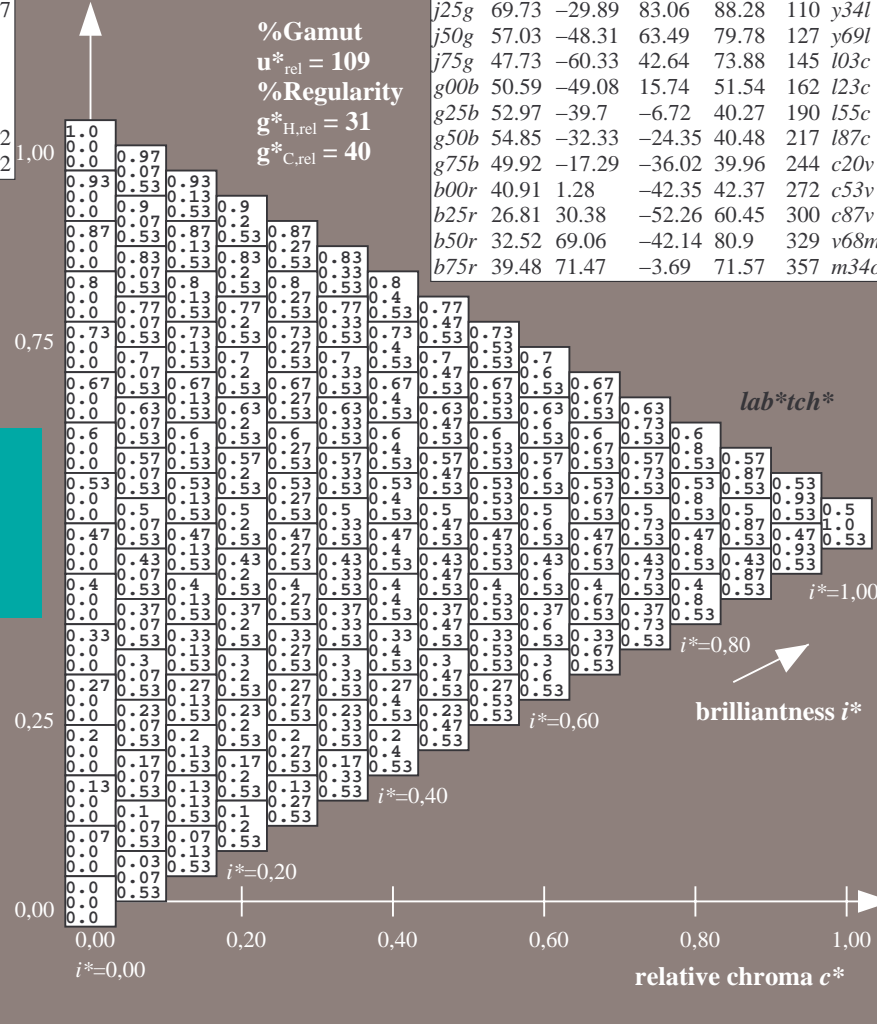
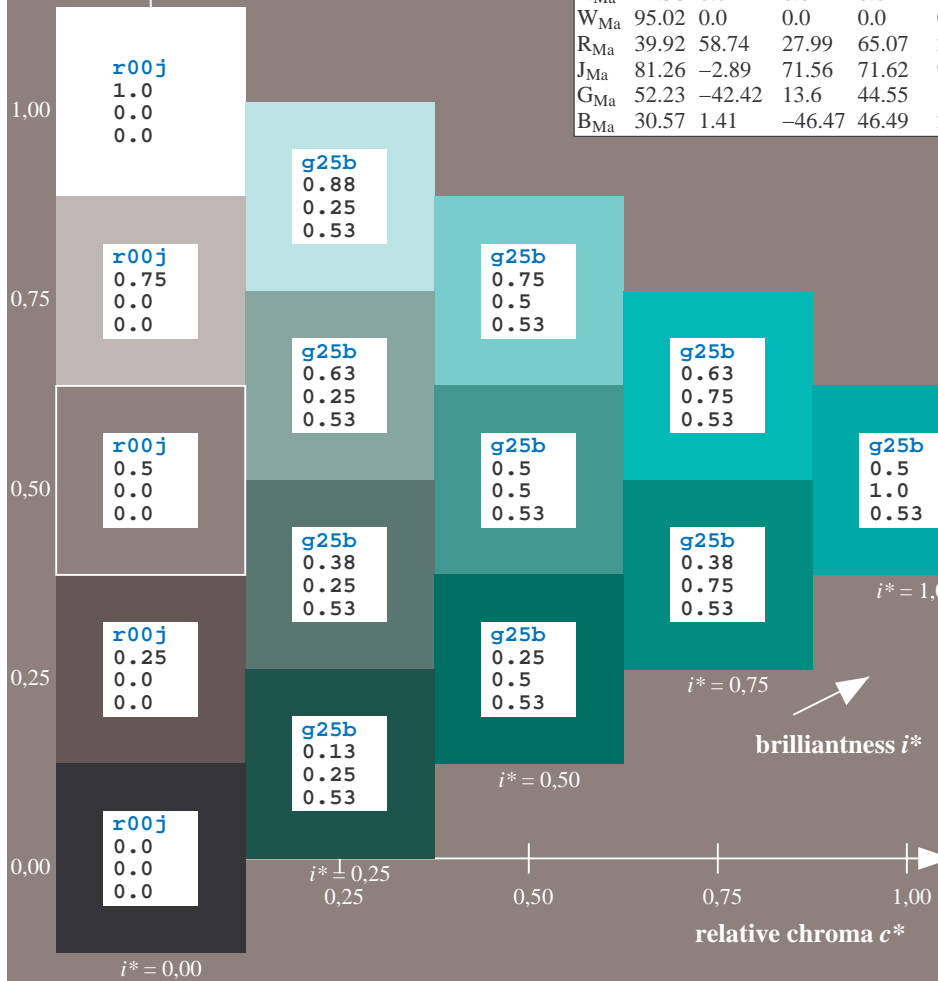
$lab^*rgb^*_{Ma}: 0.0 1.0 0.5$

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

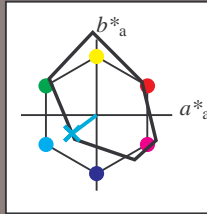




Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g50b$   $u^*_d = l87c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

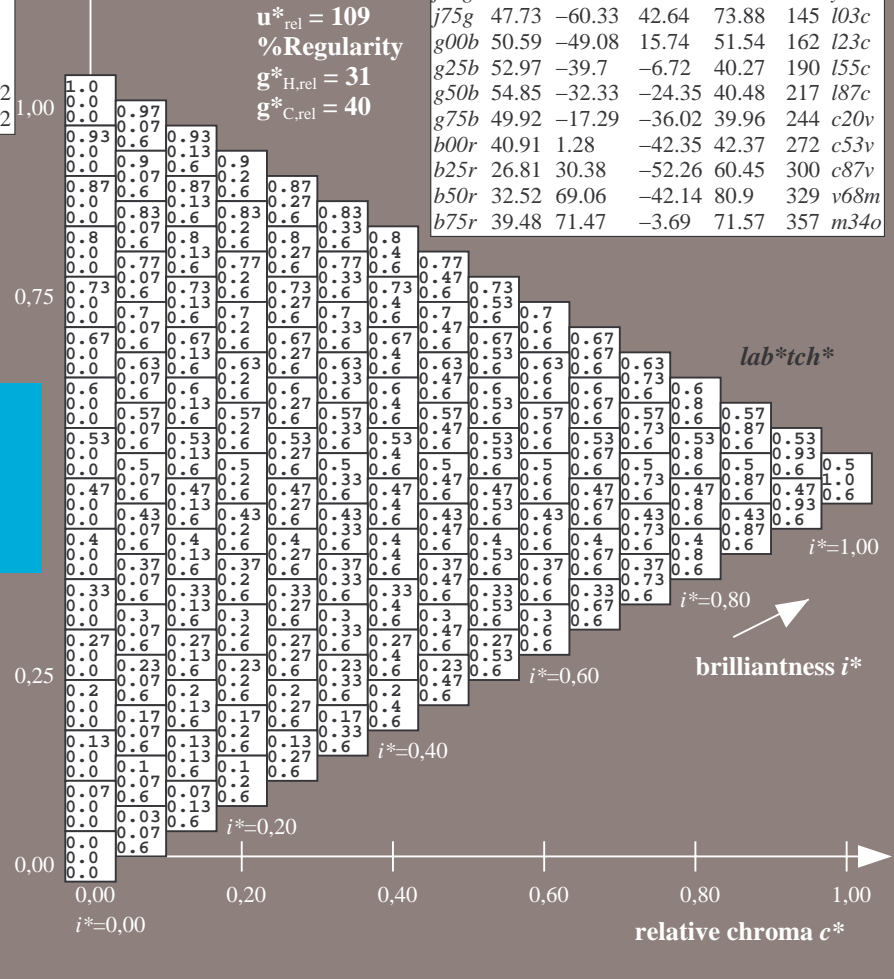
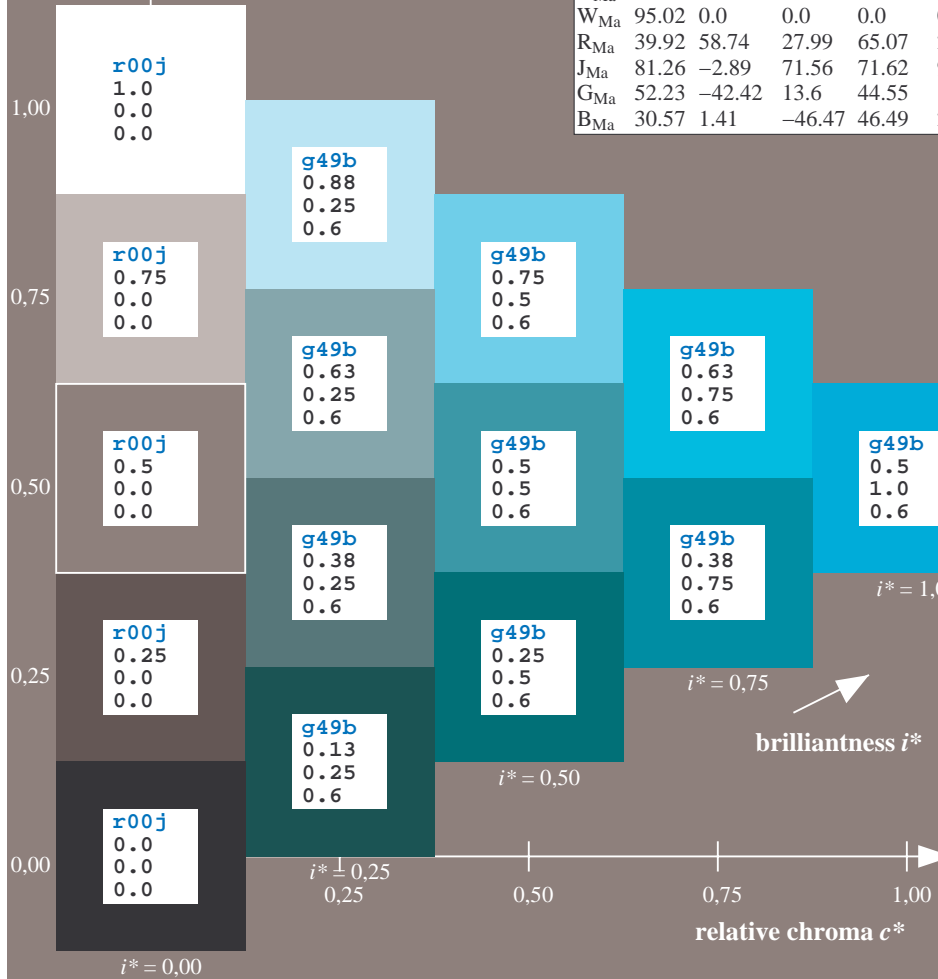
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

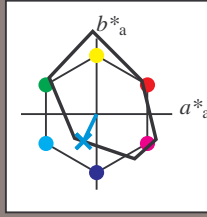




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $lab^*tch^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g75b$   $u^*_d = c20v$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 50 -17 -36$

$LAB^*LCH^*_{Ma}: 50 40 244$

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

$lab^*olv^*_{Ma}: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

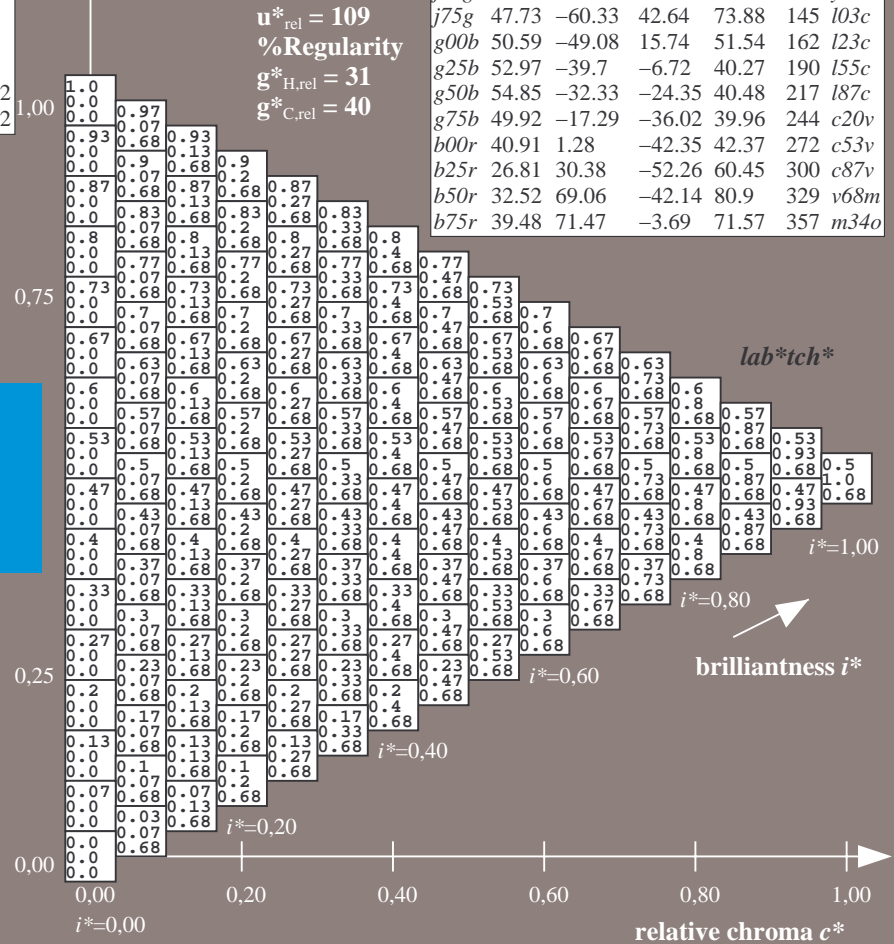
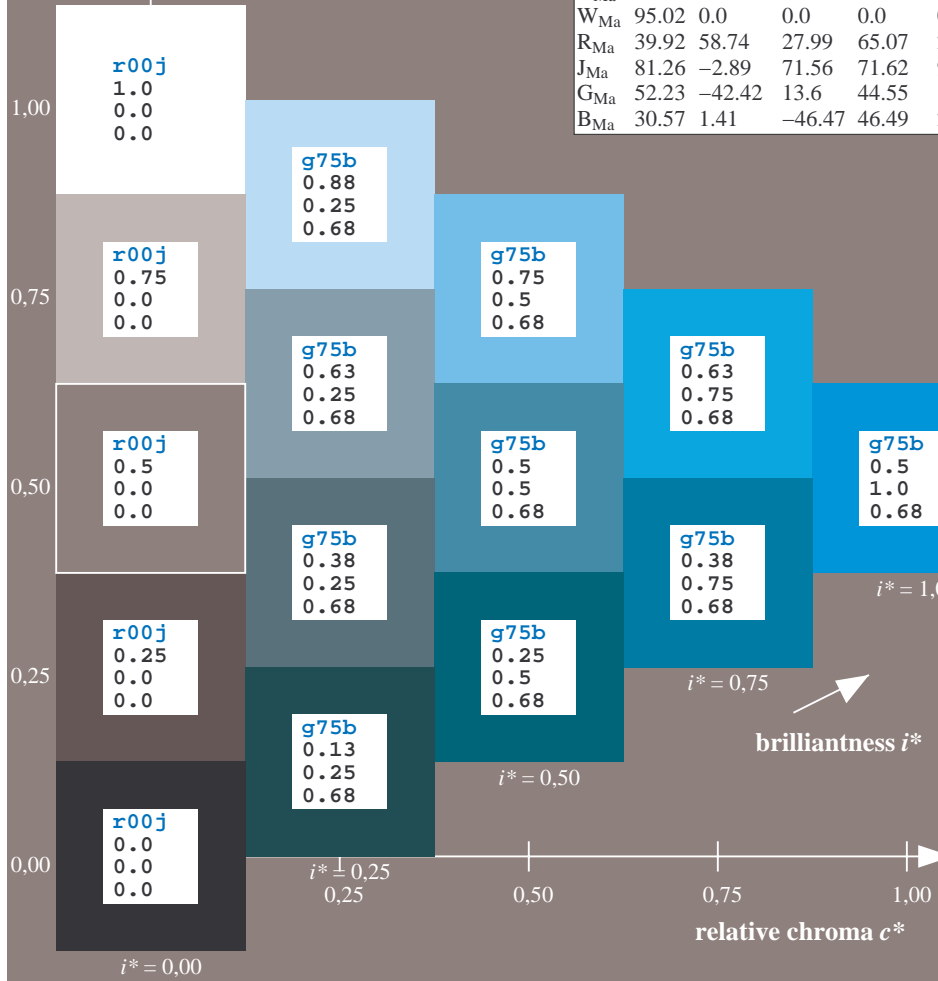
% Gamut

$u^*_{rel} = 109$

% Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$   
 data for any colour:

$u^*_e = b00r$   
 $lab^*tch^*$

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

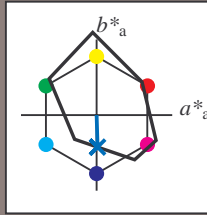
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; adapted (a) CIELAB data						
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 41 1 -42

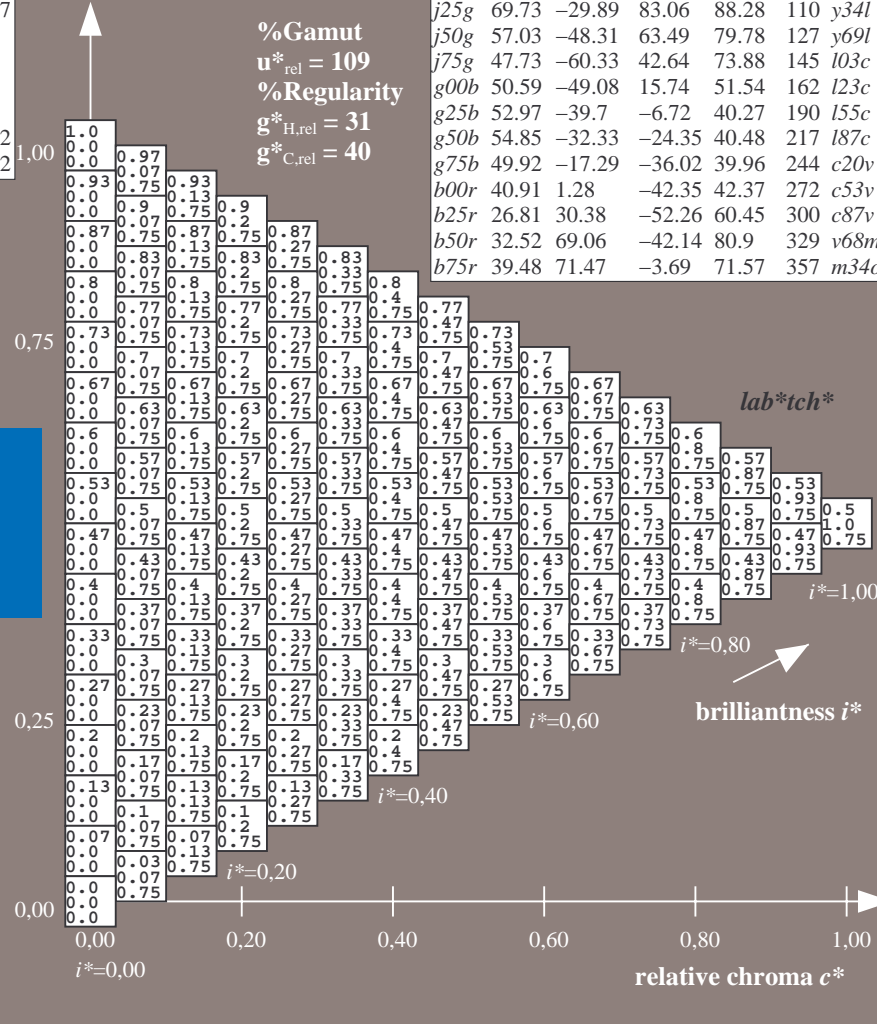
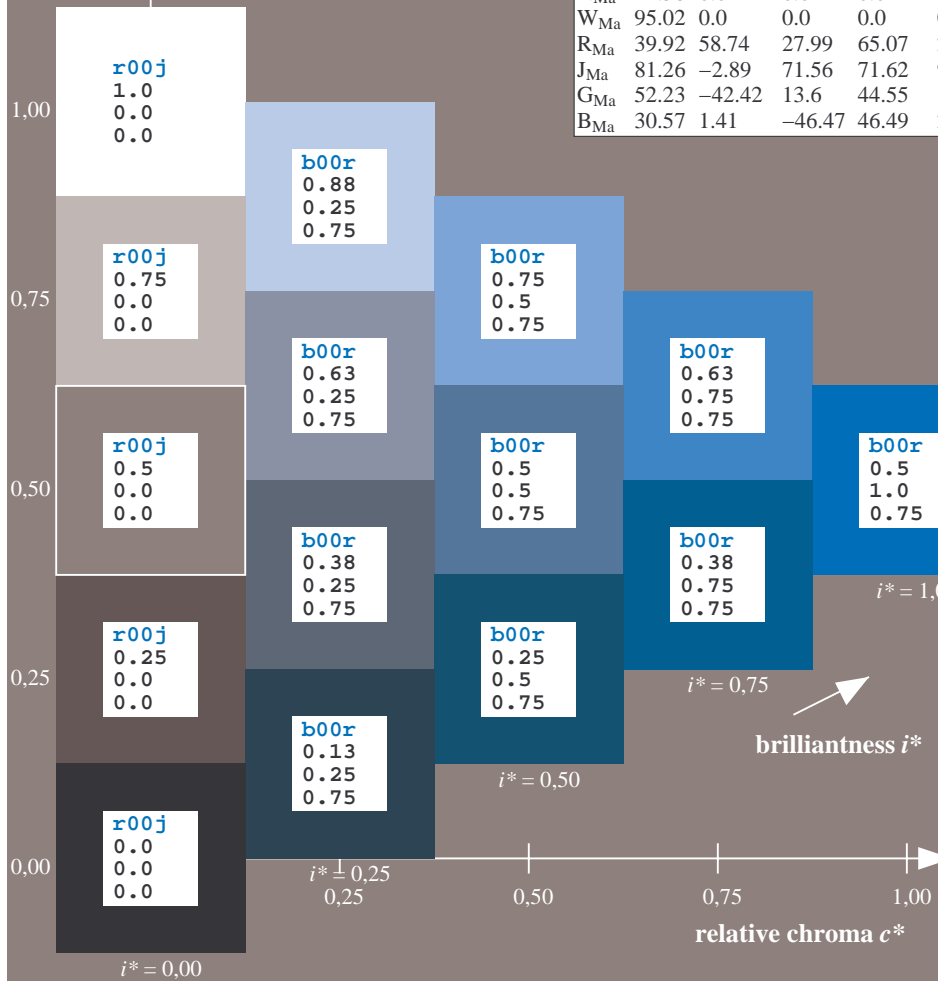
$LAB^*LCH^*_{Ma}$ : 41 42 271

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

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

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$   
 data for any colour:

$u^*_e = b25r$   
 $lab^*tch^*$

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

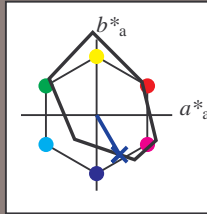
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36	
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93	
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142	
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228	
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310	
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337	
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0	
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0	
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25	
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 27\ 30\ -52$

$LAB^*LCH^*_{Ma}: 27\ 60\ 300$

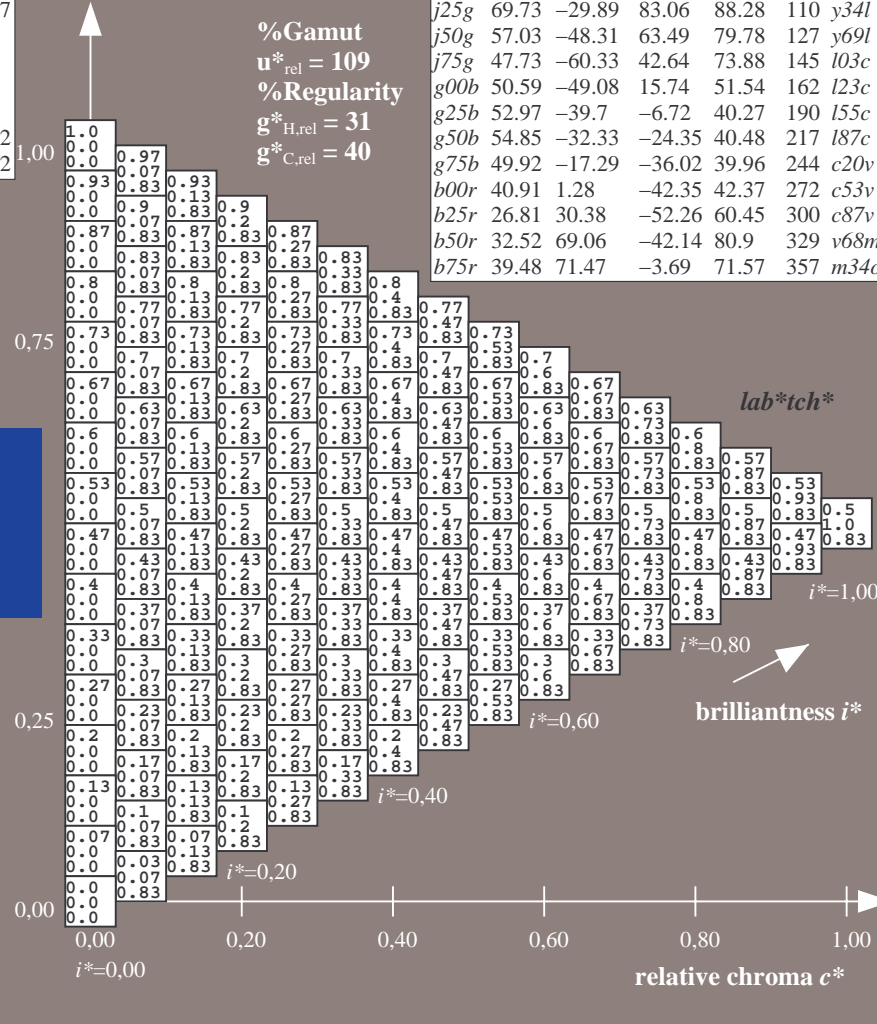
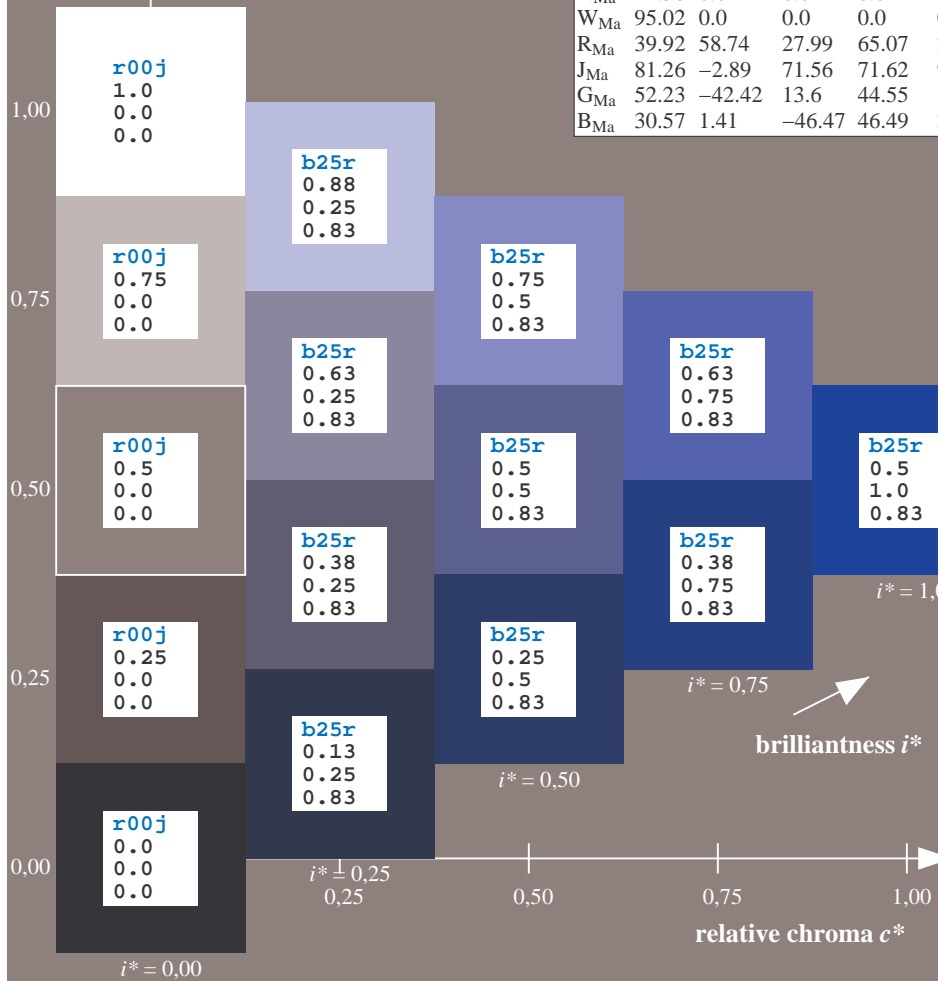
$lab^*rgb^*_{Ma}: 0.5\ 0.0\ 1.0$

$lab^*olv^*_{Ma}: 0.0\ 0.12\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$   
 data for any colour:

$u^*_e = b50r$   
 $lab^*tch^*$

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

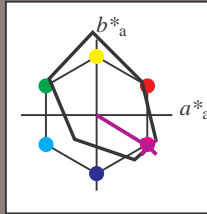
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 33 69 -42

$LAB^*LCH^*_{Ma}$ : 33 81 328

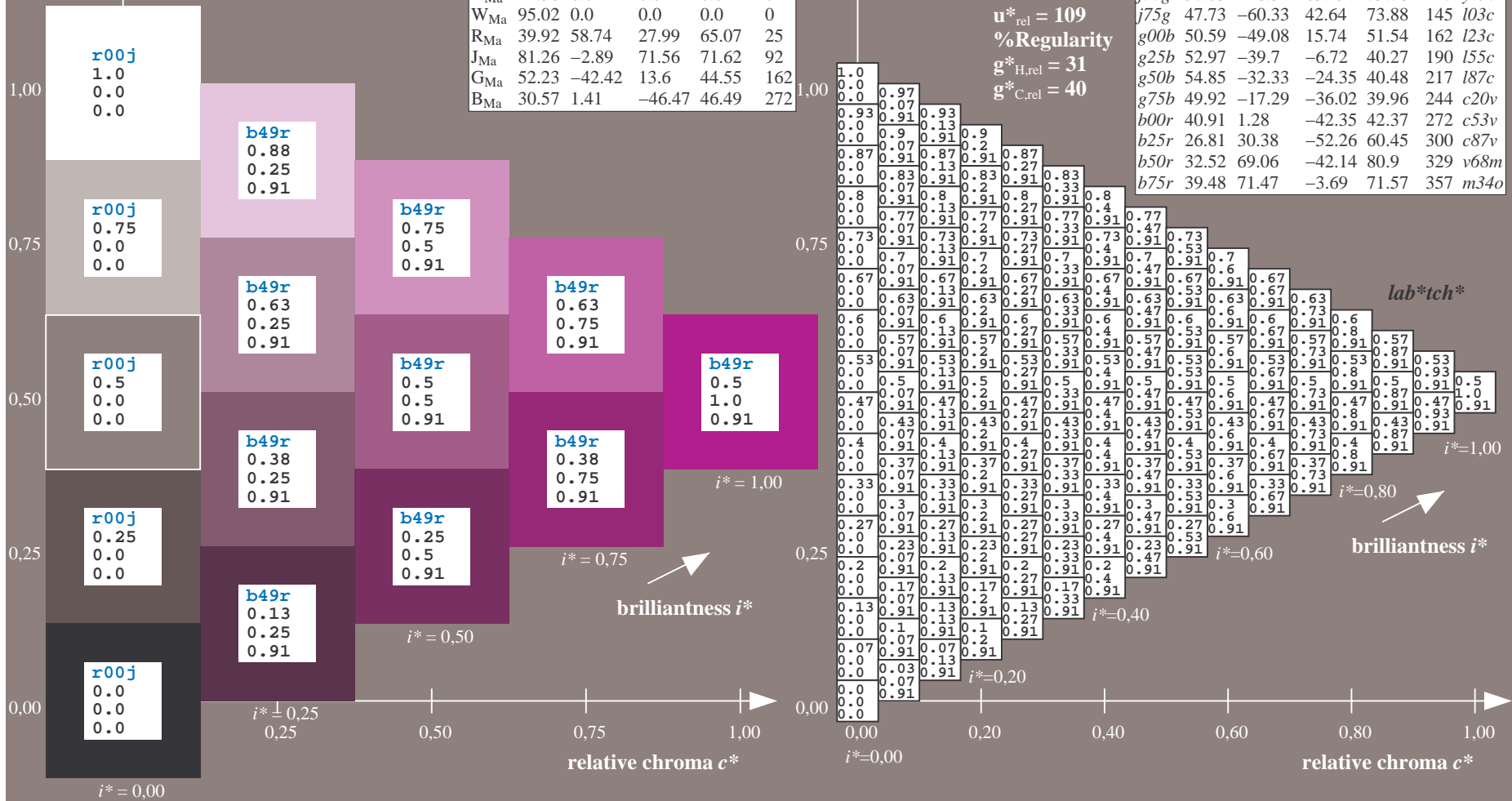
$lab^*rgb^*_{Ma}$ : 1.0 0.0 1.0

$lab^*olv^*_{Ma}$ : 0.69 0.0 1.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$   
 $lab^*tch^*$

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

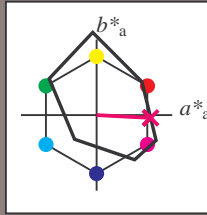
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
$O_{Ma}$	38.06	60.0	44.0	74.4	36	
$Y_{Ma}$	86.77	-5.17	109.32	109.44	93	
$L_{Ma}$	47.13	-62.67	48.24	79.09	142	
$C_{Ma}$	55.66	-29.14	-31.99	43.27	228	
$V_{Ma}$	17.15	50.3	-59.04	77.57	310	
$M_{Ma}$	40.37	78.64	-33.5	85.48	337	
$N_{Ma}$	11.58	0.0	0.0	0.0	0	
$W_{Ma}$	95.02	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 ( $Ma$ ):

$LAB^*LAB^*_{Ma}: 39\ 71\ -4$

$LAB^*LCH^*_{Ma}: 39\ 72\ 357$

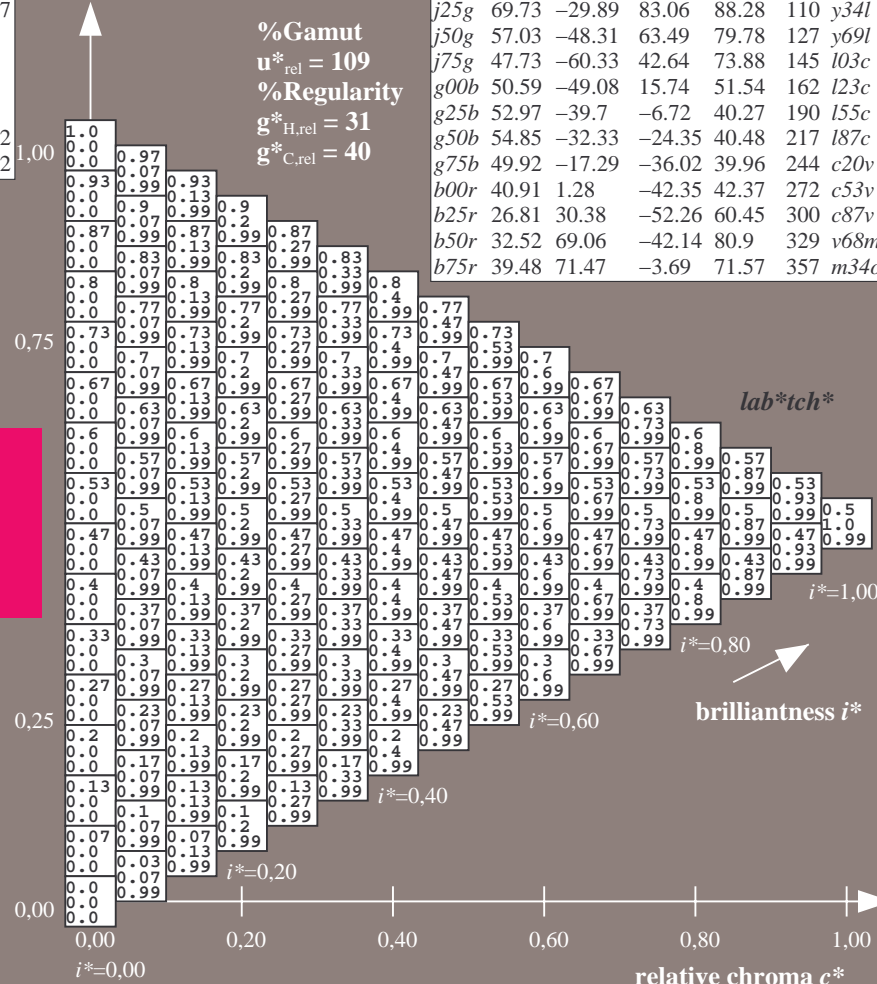
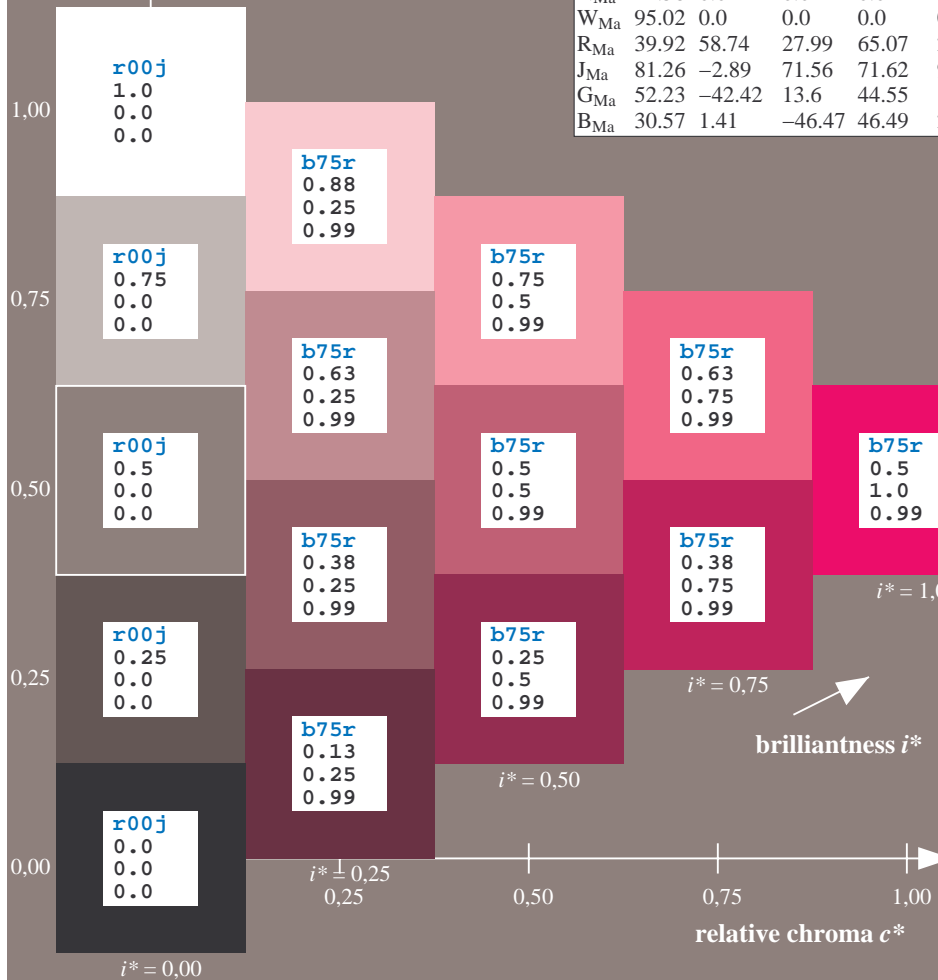
$lab^*rgb^*_{Ma}: 1.0\ 0.0\ 0.5$

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$	
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$	
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$	
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$	
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$	
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$	
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$	
$j75g$	47.73	-60.33	42.64	73.88	145	$103c$	
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$	
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$	
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$	
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$	
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$	
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$	
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$	
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$	









Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15

elementary hue text:

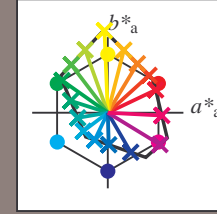
$u^*_e = 16$  hues *r00j, r25j, ..., b75r*

contrast reduction factor:

$c_R = 1.0$

**FRS12\_95a; adapted (a) CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
<i>r00j</i>	38.47	63.32	30.17	70.15	25	<i>m81o</i>
<i>r25j</i>	42.12	54.56	49.45	73.64	42	<i>o10y</i>
<i>r50j</i>	53.64	39.15	64.89	75.79	59	<i>o40y</i>
<i>r75j</i>	67.01	21.26	82.83	85.52	76	<i>o69y</i>
<i>j00g</i>	86.18	-4.38	108.53	108.62	92	<i>o98y</i>
<i>j25g</i>	69.73	-29.89	83.06	88.28	110	<i>y34l</i>
<i>j50g</i>	57.03	-48.31	63.49	79.78	127	<i>y69l</i>
<i>j75g</i>	47.73	-60.33	42.64	73.88	145	<i>l03c</i>
<i>g00b</i>	50.59	-49.08	15.74	51.54	162	<i>l23c</i>
<i>g25b</i>	52.97	-39.7	-6.72	40.27	190	<i>l55c</i>
<i>g50b</i>	54.85	-32.33	-24.35	40.48	217	<i>l87c</i>
<i>g75b</i>	49.92	-17.29	-36.02	39.96	244	<i>c20v</i>
<i>b00r</i>	40.91	1.28	-42.35	42.37	272	<i>c53v</i>
<i>b25r</i>	26.81	30.38	-52.26	60.45	300	<i>c87v</i>
<i>b50r</i>	32.52	69.06	-42.14	80.9	329	<i>v68m</i>
<i>b75r</i>	39.48	71.47	-3.69	71.57	357	<i>m34o</i>



%Gamut

$u^*_{rel} = 109$

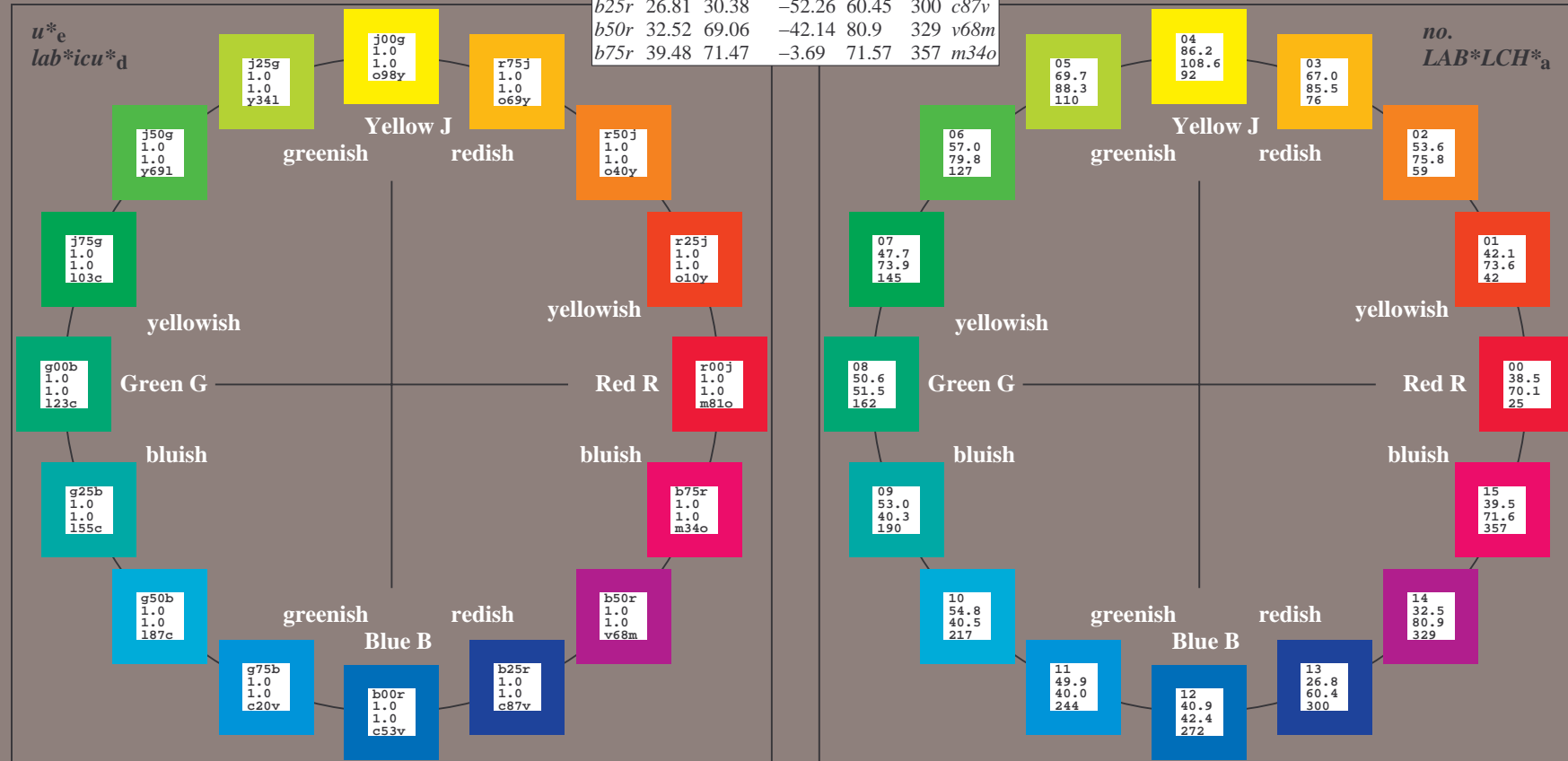
%Regularity

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

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

**FRS12\_95a; adapted (a) CIELAB data**

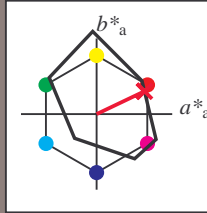
Name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$   
 $lab^*icu^*_d$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma$ : 38 63 30

$LAB^*LCH^*_Ma$ : 38 70 25

$lab^*rgb^*_Ma$ : 1.0 0.0 0.0

$lab^*olv^*_Ma$ : 1.0 0.0 0.18

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

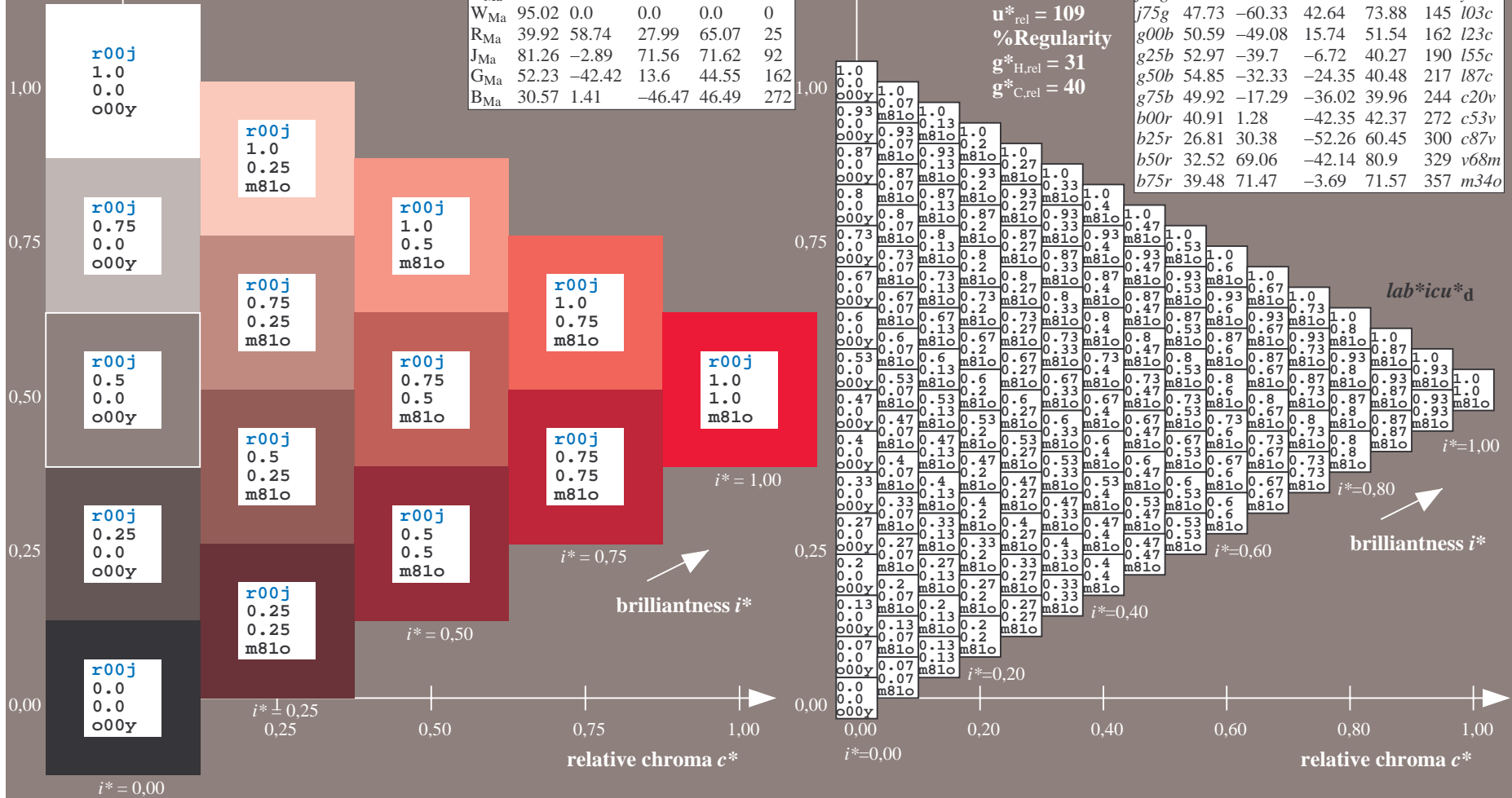
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$   
 data for any colour:

$u^*_e = r50j$   
 $lab^*icu^*_d$

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

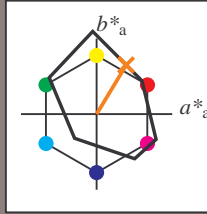
Hue texts:

$u^*_e = r50j$   $u^*_d = o40y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 54\ 39\ 65$

$LAB^*LCH^*_{Ma}: 54\ 76\ 58$

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

$lab^*olv^*_{Ma}: 1.0\ 0.4\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

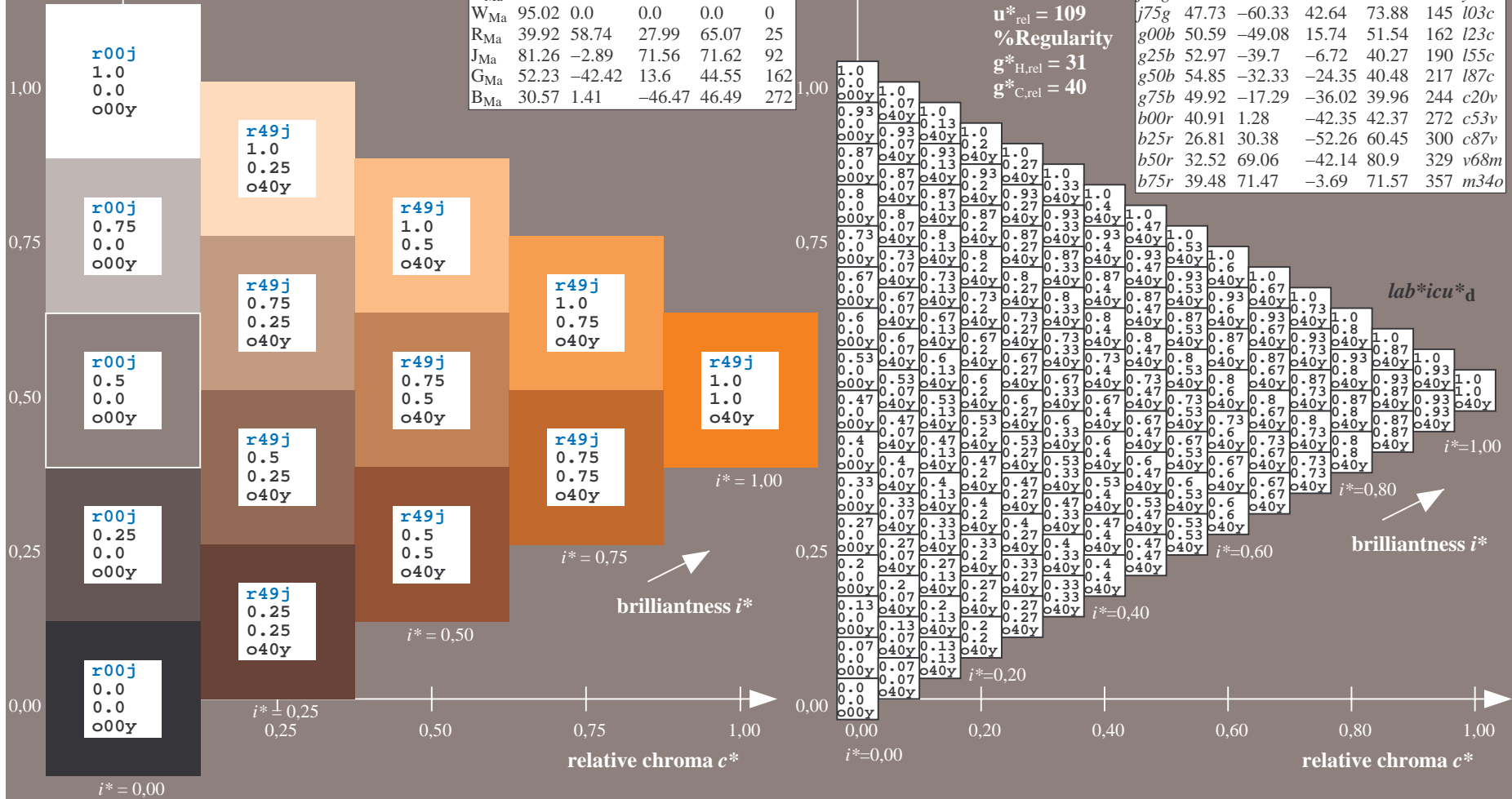
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$

$u^*_e = r75j$

$lab^*icu^*_d$

data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

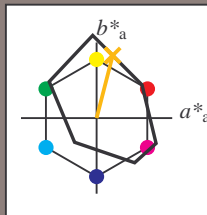
Hue texts:

$u^*_e = r75j$   $u^*_d = o69y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 67 21 83

$LAB^*LCH^*_{Ma}$ : 67 86 75

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

$lab^*olv^*_{Ma}$ : 1.0 0.7 0.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

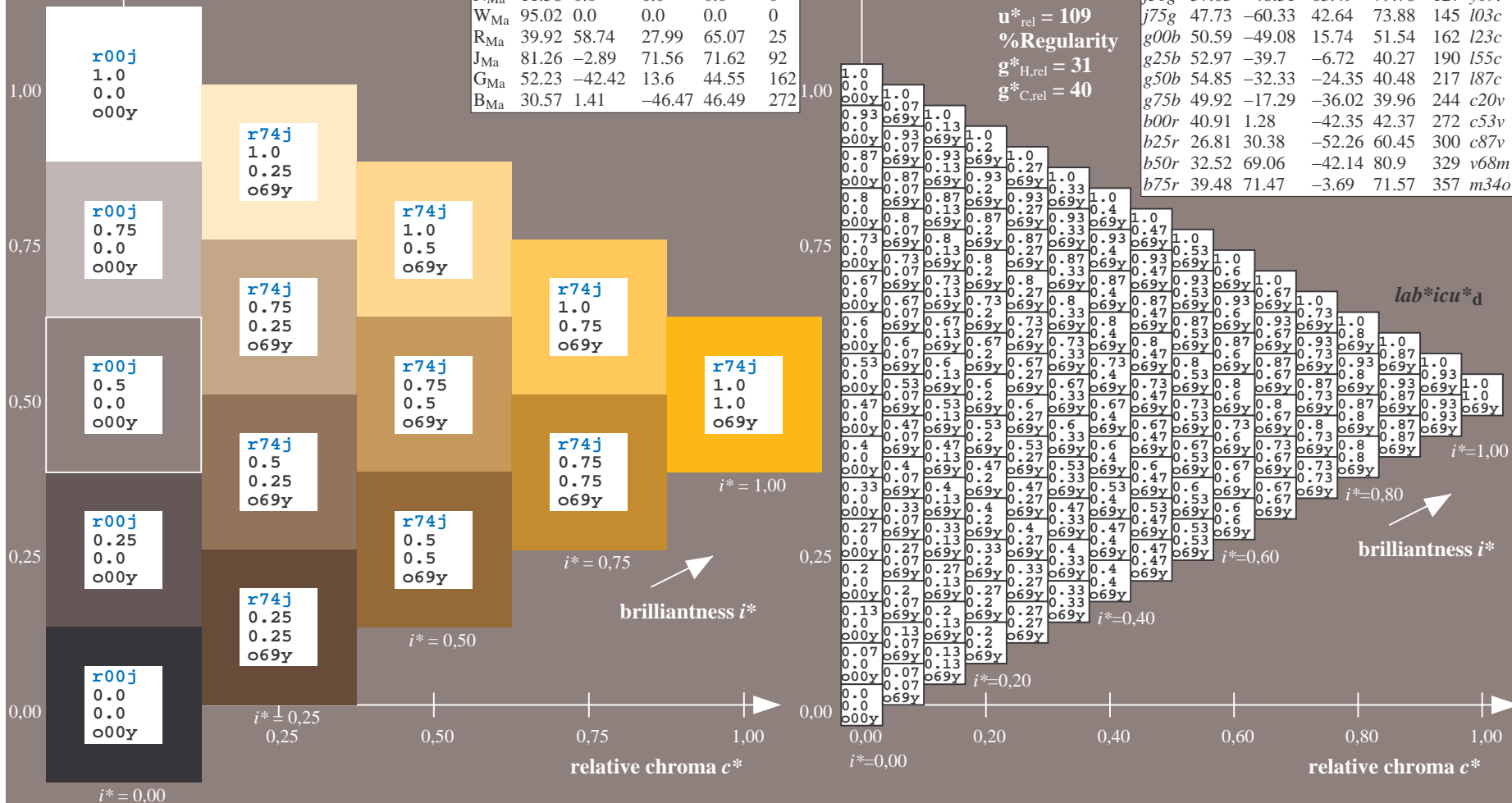
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

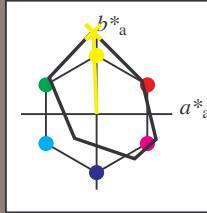




Input and output: Colorimetric Printer Reflective System FRS12\_95a,  $L^*=12\_95$  for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$   
 data for any colour:

$u^*_e = j00g$   
 $lab^*icu^*_d$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j00g$   $u^*_d = o98y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

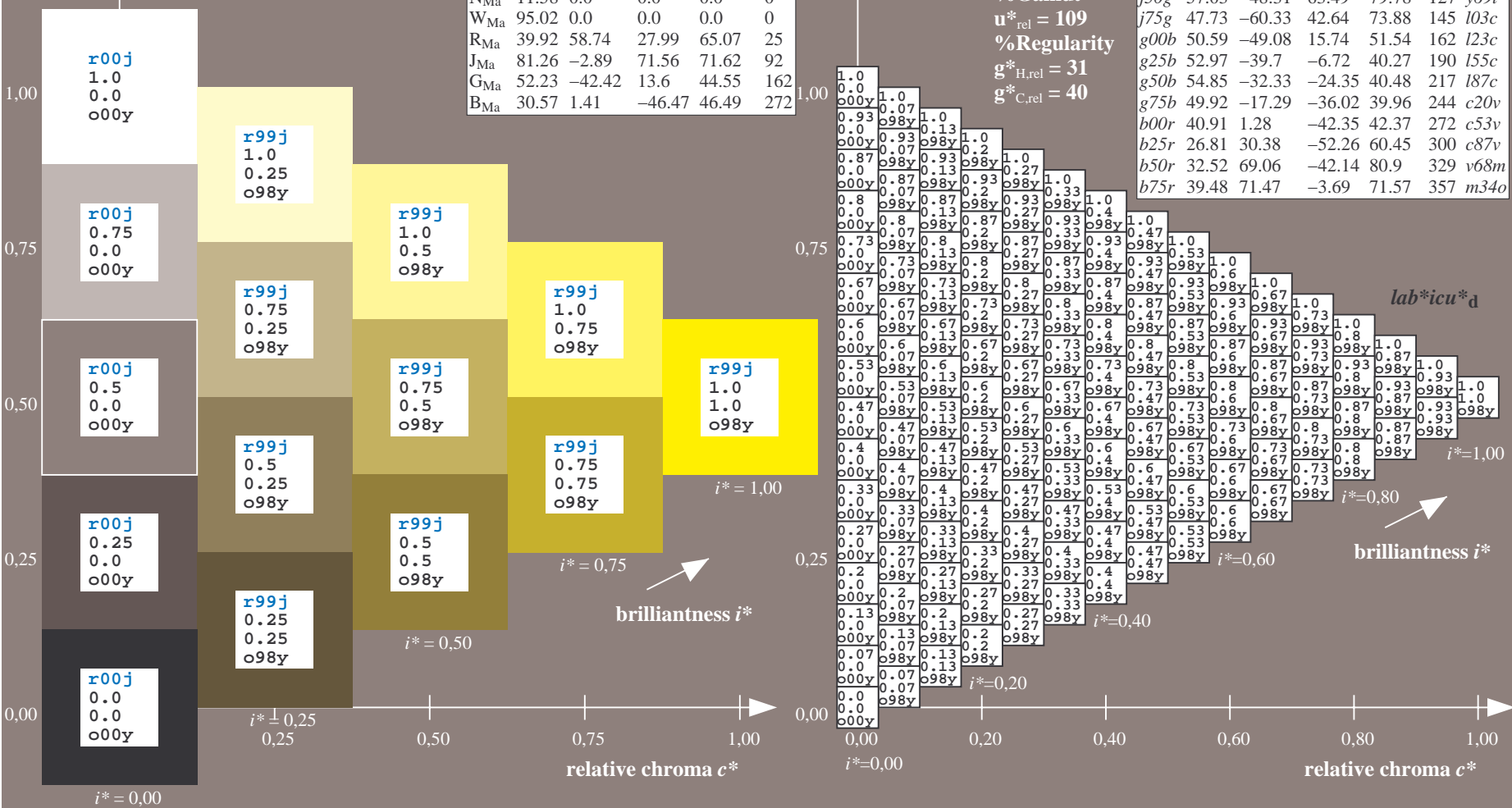
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 86 -4 109  
 $LAB^*LCH^*_{Ma}$ : 86 109 92  
 $lab^*rgb^*_{Ma}$ : 1.0 1.0 0.0  
 $lab^*olv^*_{Ma}$ : 1.0 0.99 0.0

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

triangle lightness  $t^*$   
 %Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $lab^*icu^*_d$

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

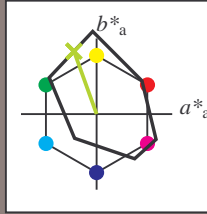
Hue texts:

$u^*_e = j25g$   $u^*_d = y34l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

$LAB^*LCH^*_{Ma}: 70 88 109$

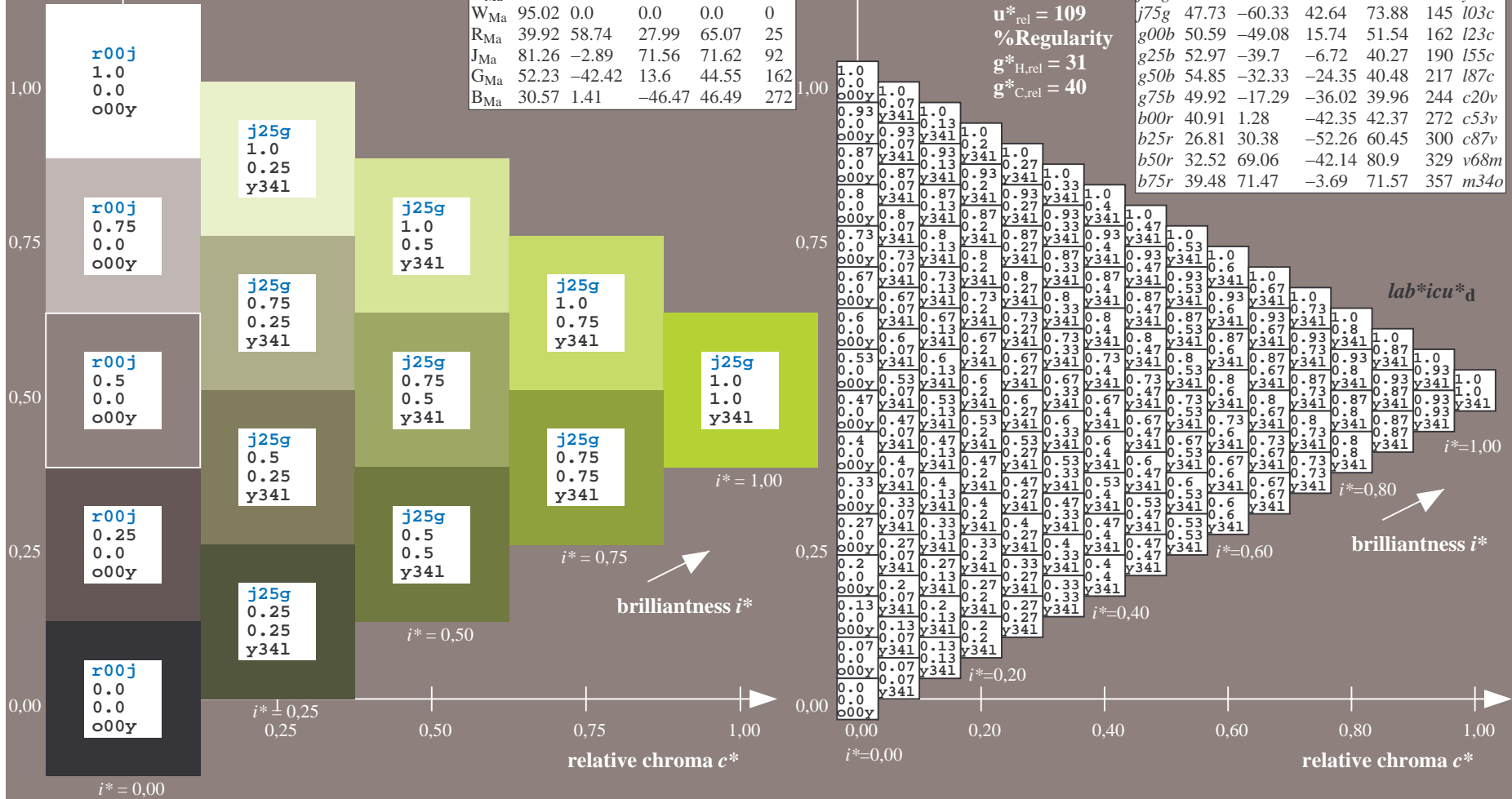
$lab^*rgb^*_{Ma}: 0.75 1.0 0.0$

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



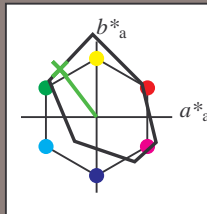
%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$   
 data for any colour:

$u^*_e = j50g$   
 $lab^*icu^*_d$

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

Hue texts:  
 $u^*_e = j50g$   $u^*_d = y69l$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

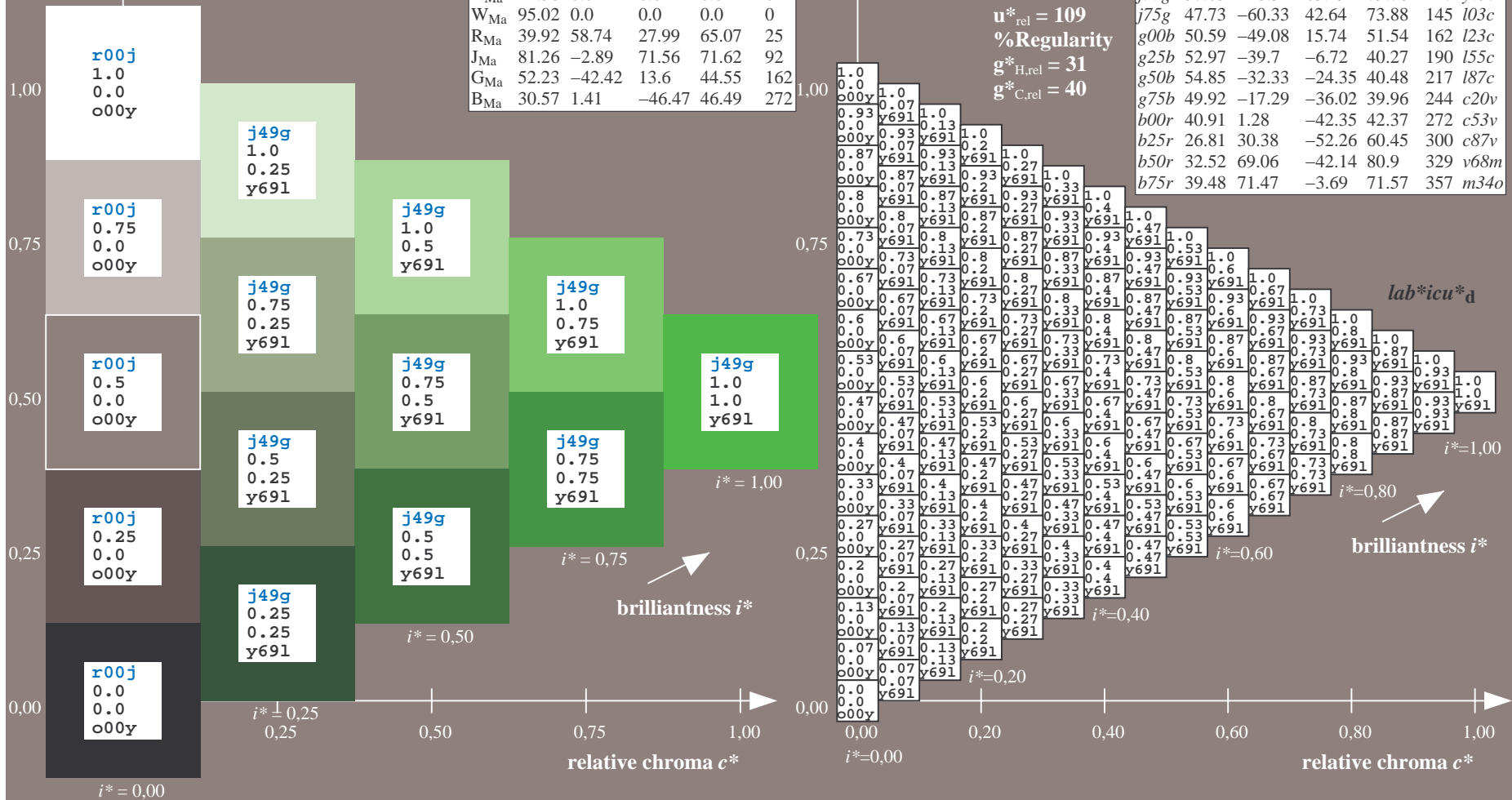
%Gamut

$u^*_{rel} = 109$

%Regularity

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

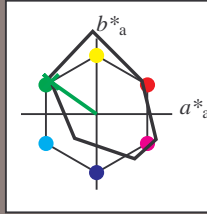
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

$u^*_e = j75g$   
 $lab^*icu^*_d$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j75g$   $u^*_d = l03c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 48 -60 43

$LAB^*LCH^*_{Ma}$ : 48 74 144

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

$lab^*olv^*_{Ma}$ : 0.0 1.0 0.03

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

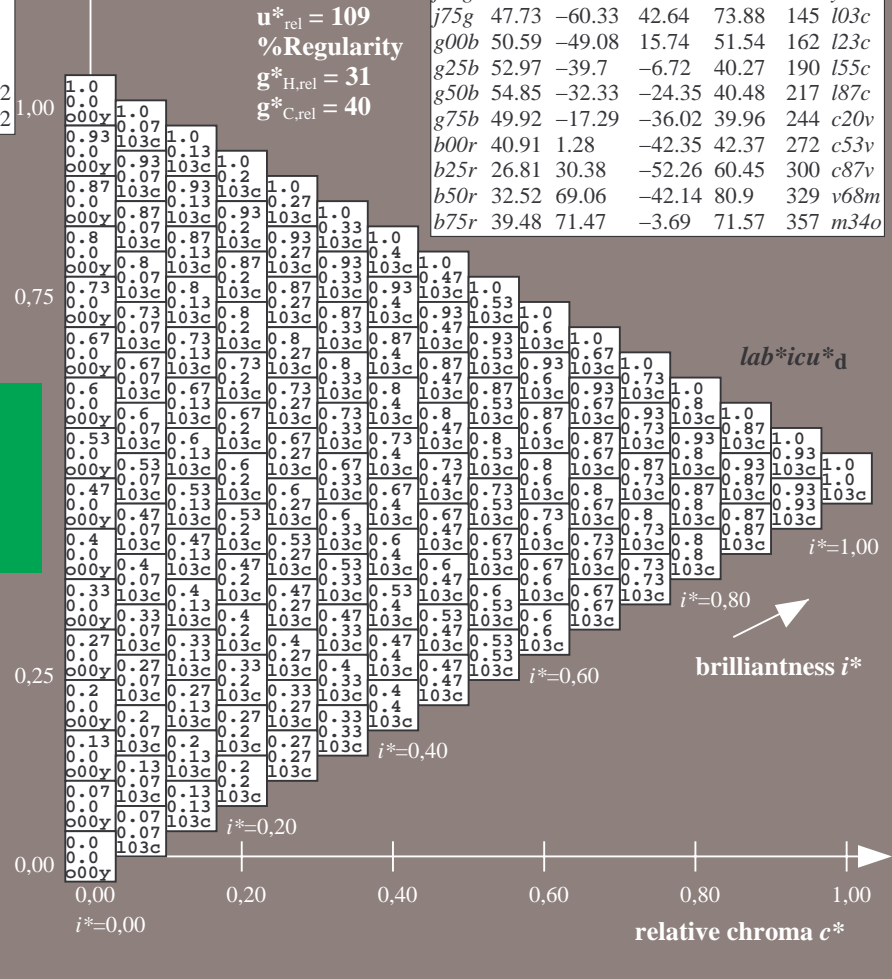
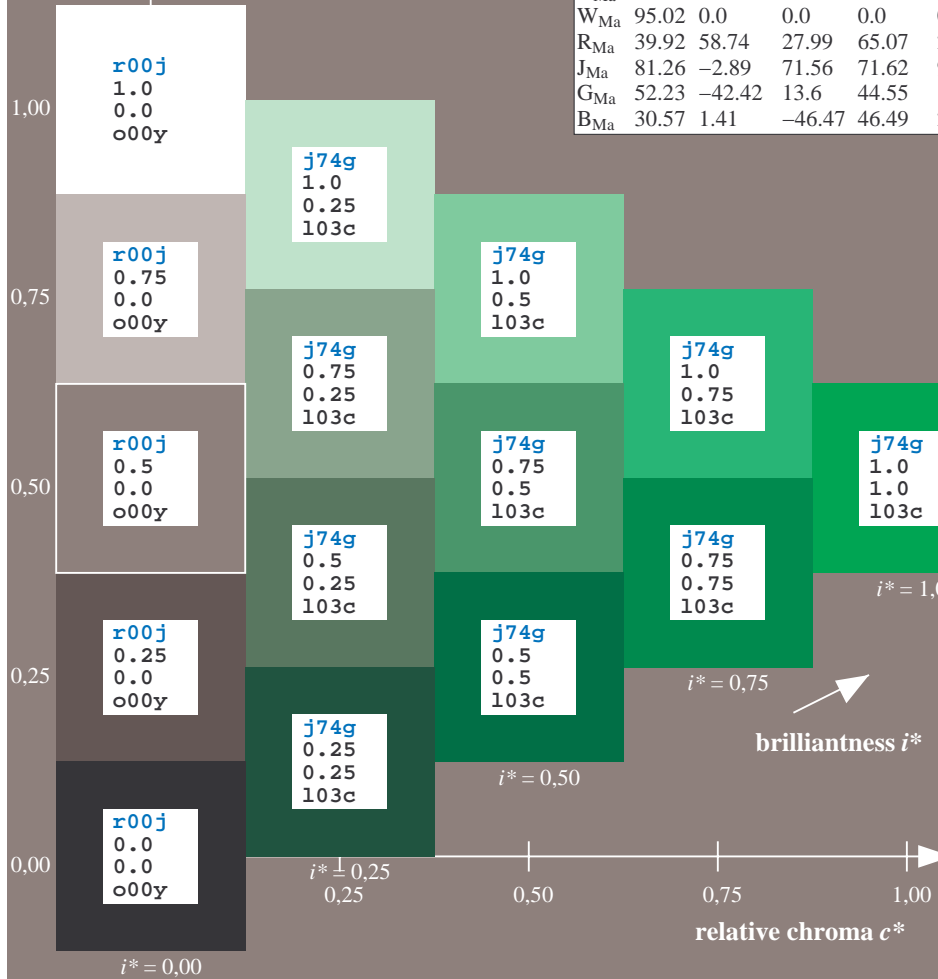
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$   
 $lab^*icu^*_d$

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

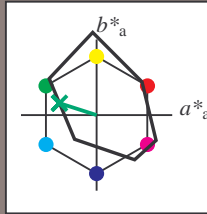
Hue texts:

$u^*_e = g00b$   $u^*_d = l23c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 51 -49 16$

$LAB^*LCH^*_{Ma}: 51 52 162$

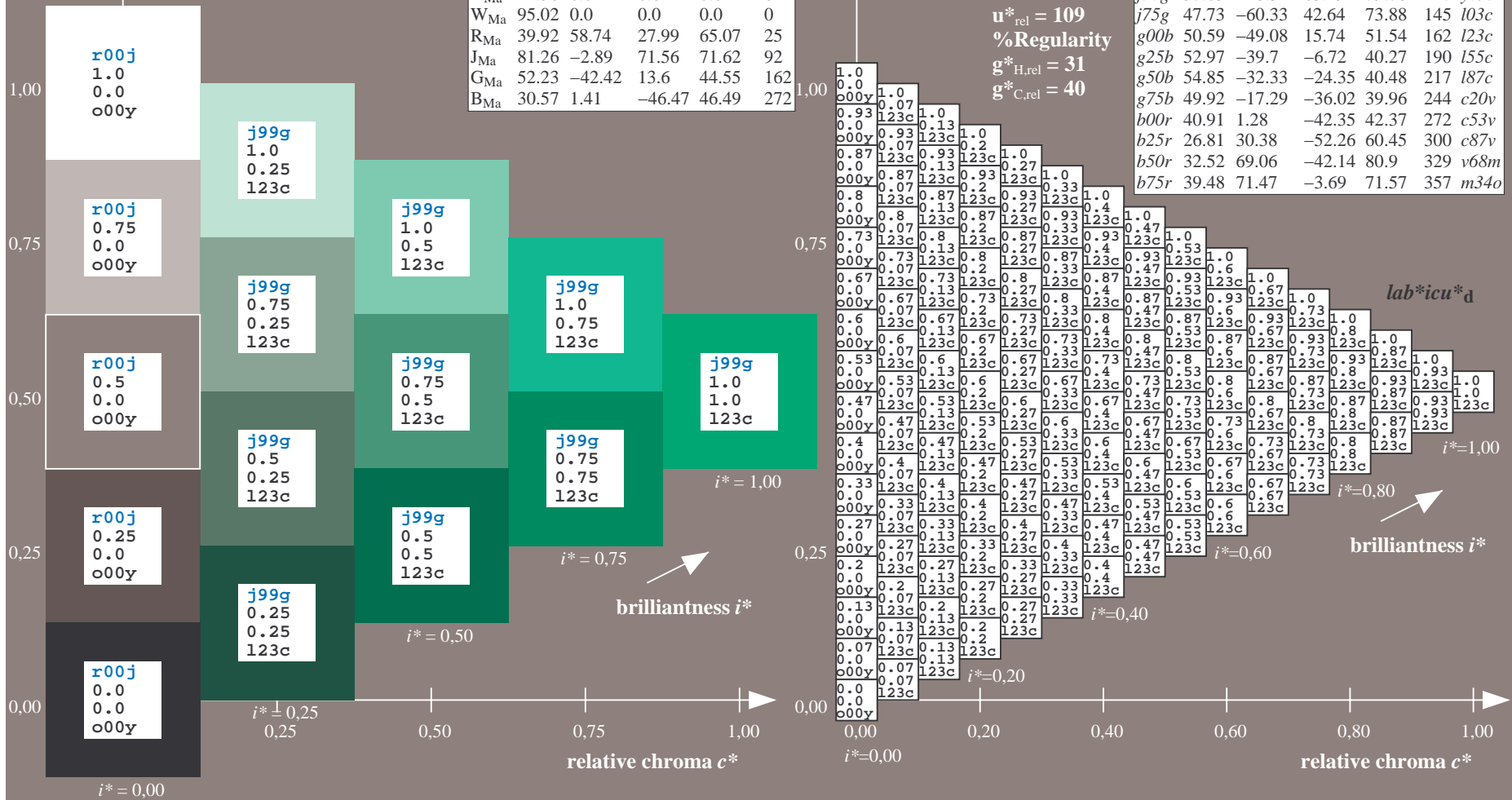
$lab^*rgb^*_{Ma}: 0.0 1.0 0.0$

$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

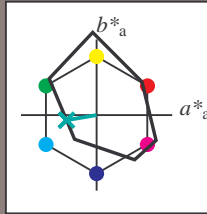
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $lab^*icu^*_d$

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



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

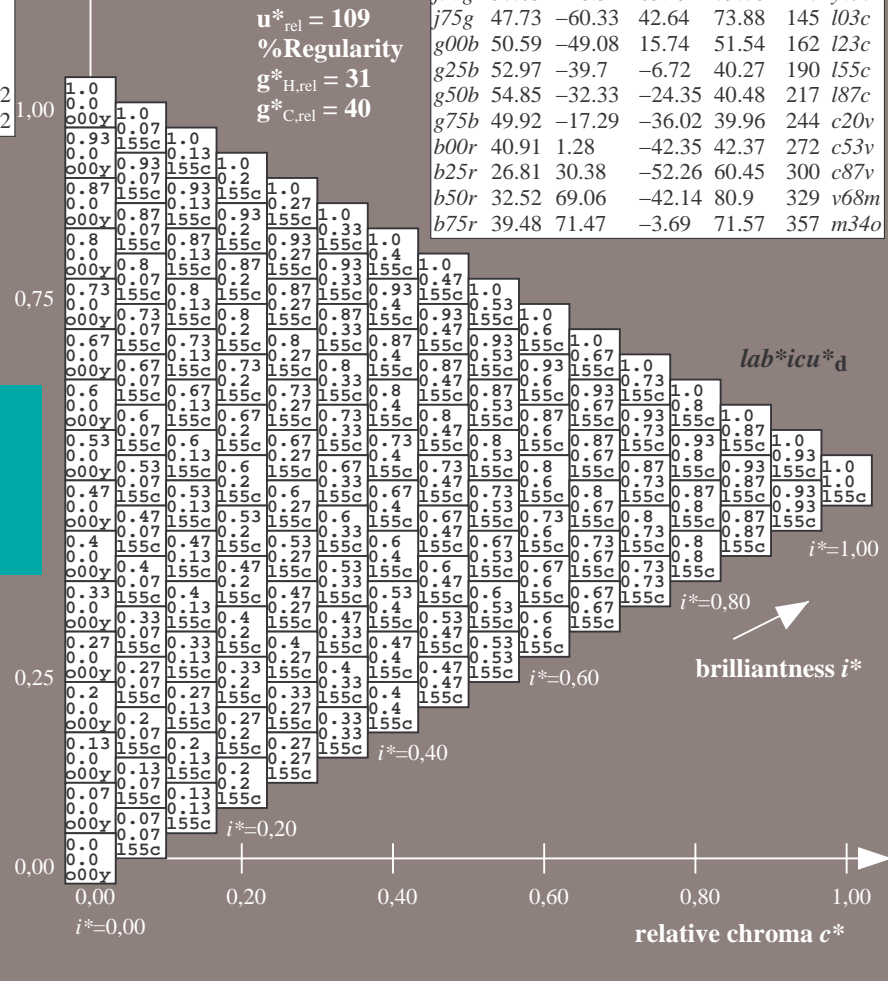
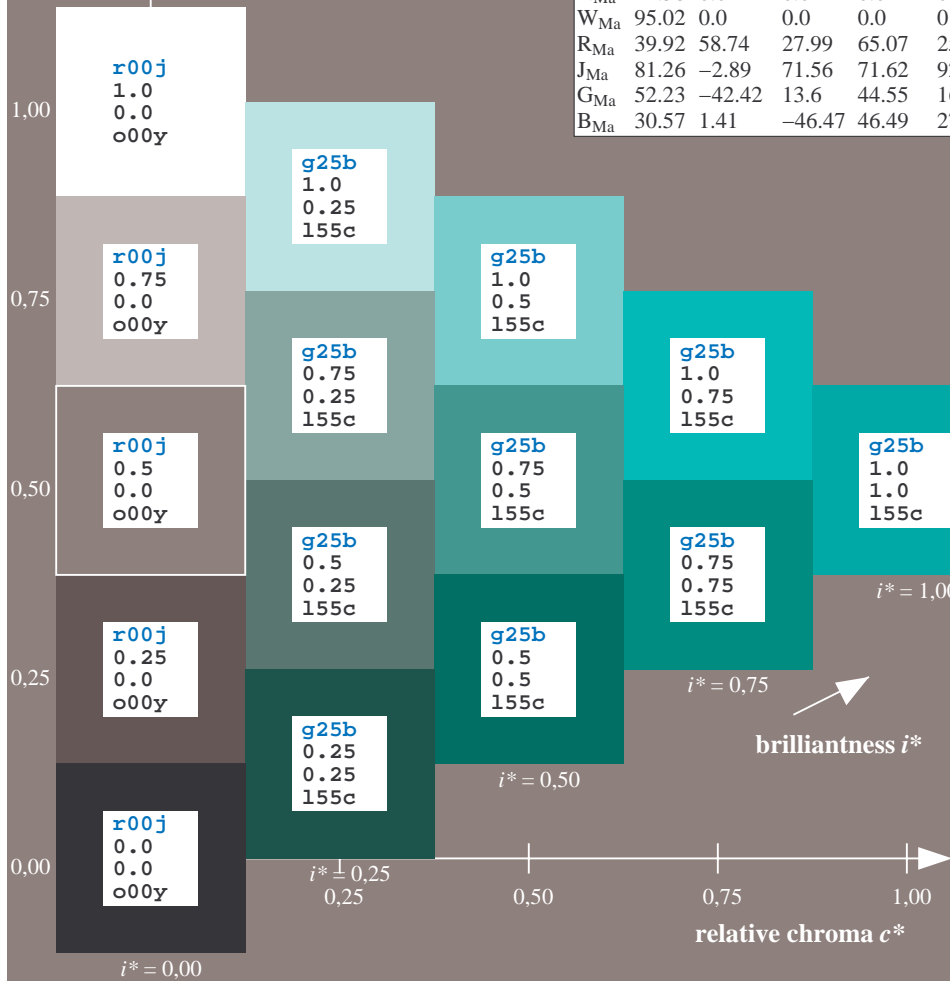
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

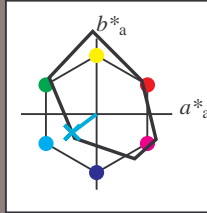




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $lab^*icu^*_d$

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



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

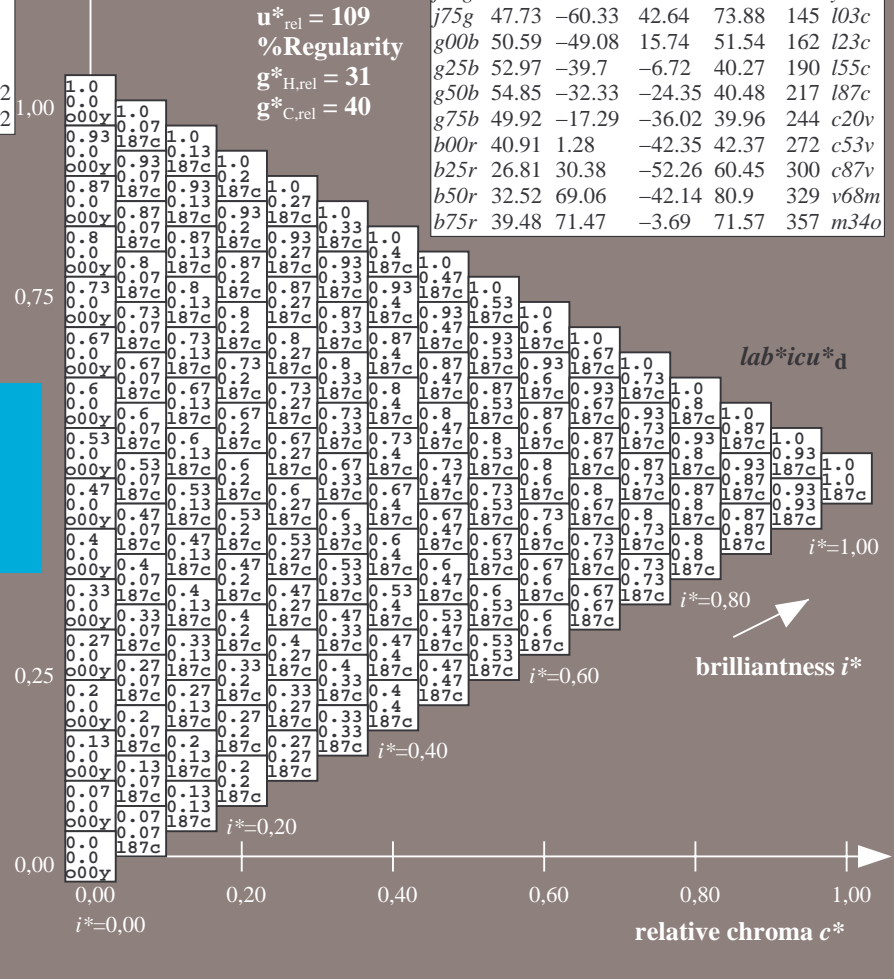
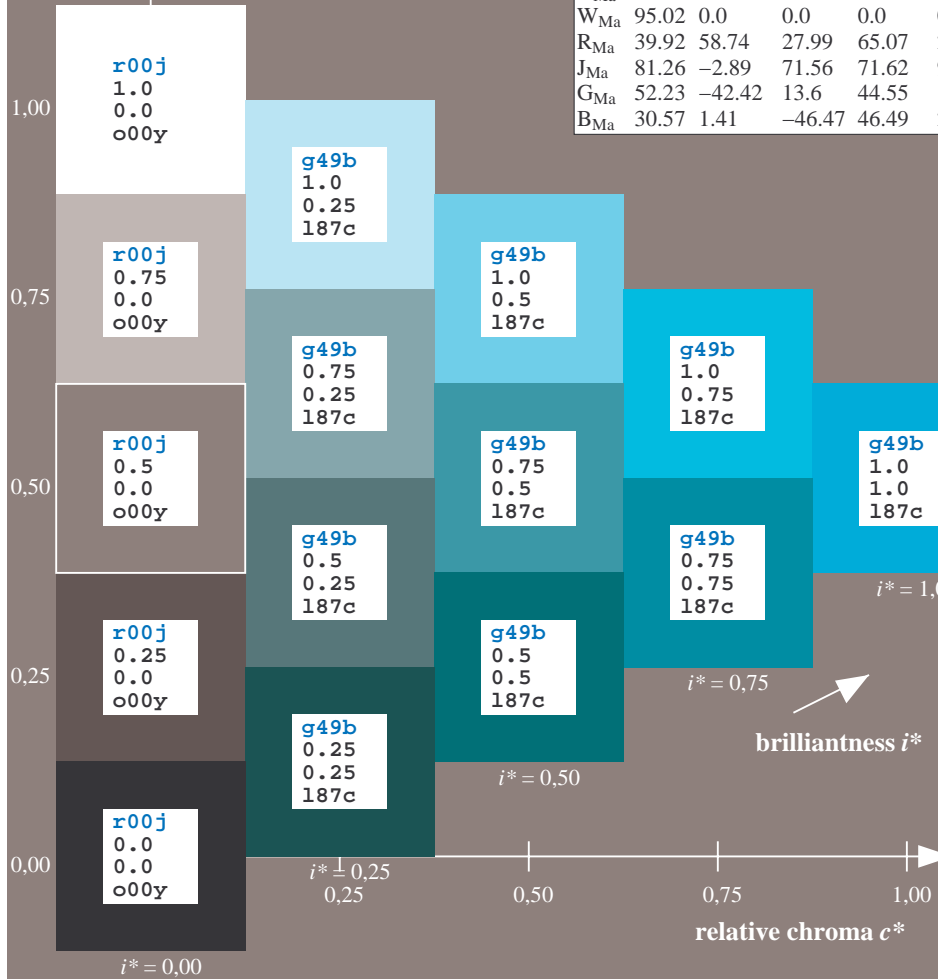
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

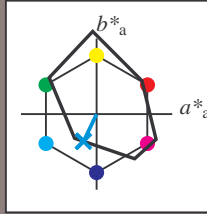




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $lab^*icu^*_d$

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



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 50 -17 -36$

$LAB^*LCH^*_{Ma}: 50 40 244$

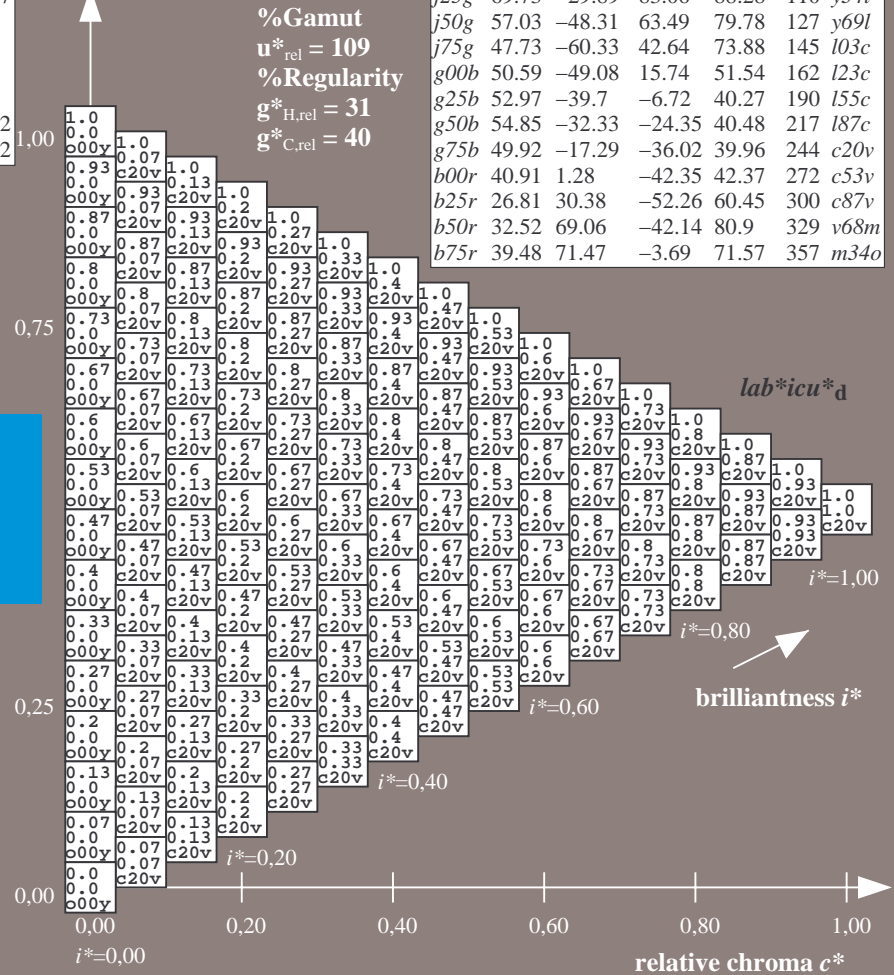
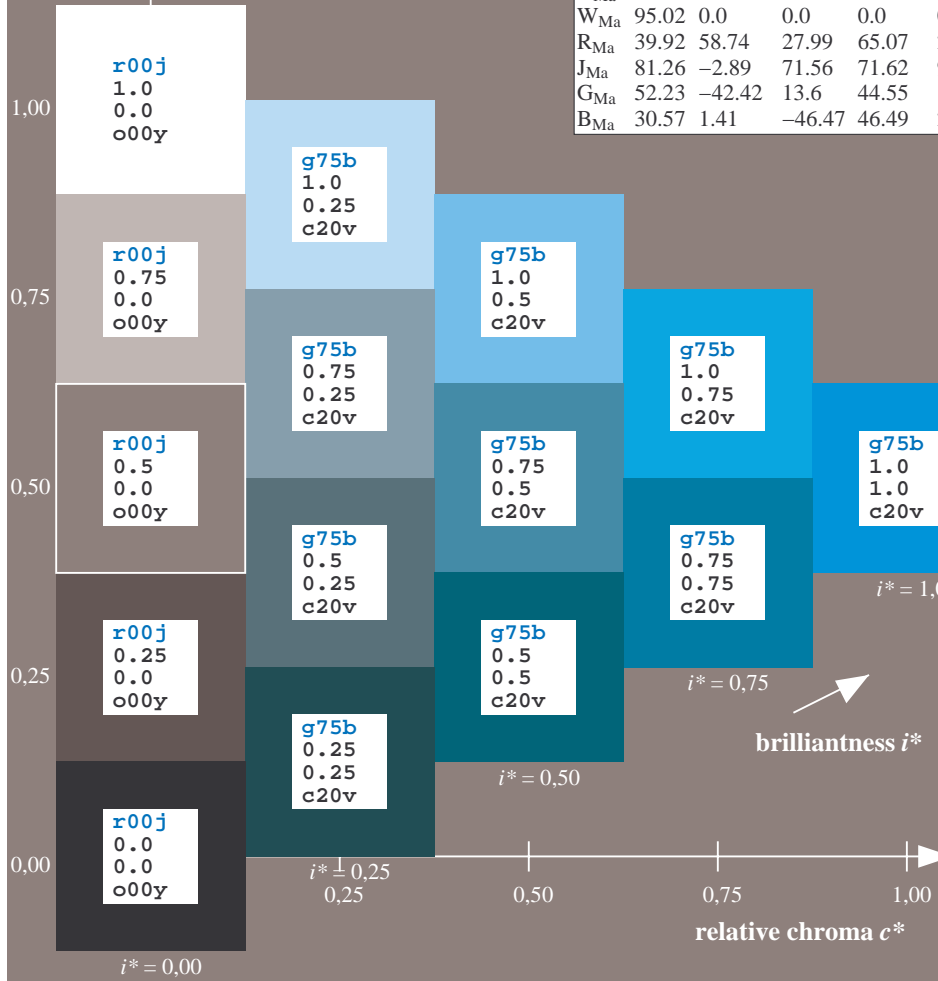
$lab^*rgb^*_{Ma}: 0.0 0.5 1.0$

$lab^*olv^*_{Ma}: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$

data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

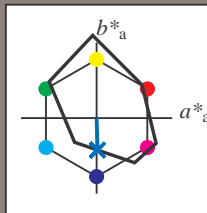
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 41 1 -42

$LAB^*LCH^*_{Ma}$ : 41 42 271

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	i03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	i55c
g50b	54.85	-32.33	-24.35	40.48	217	i87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

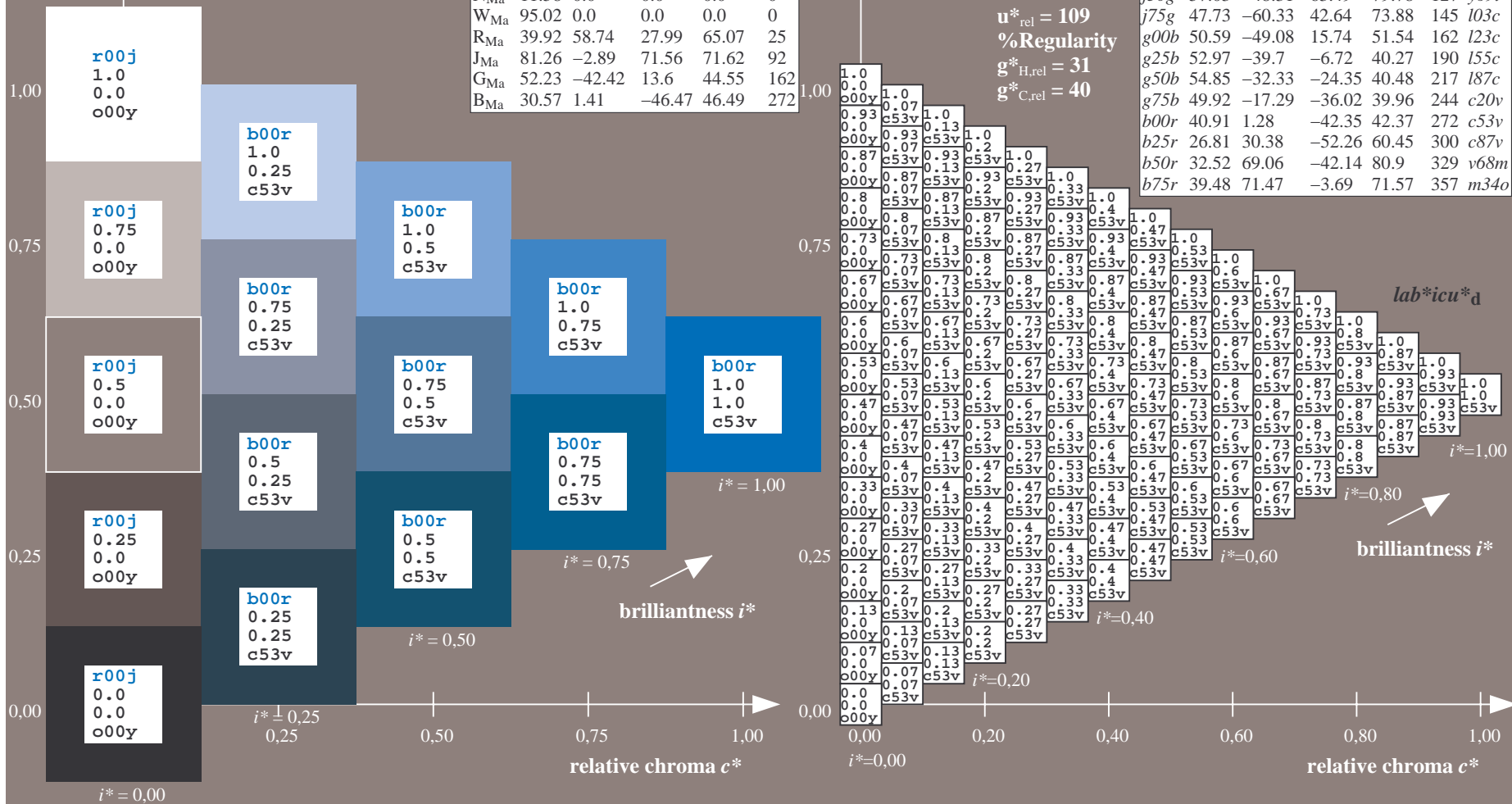
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$

data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

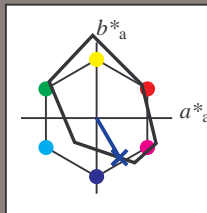
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 27\ 30\ -52$

$LAB^*LCH^*_{Ma}: 27\ 60\ 300$

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

$lab^*olv^*_{Ma}: 0.0\ 0.12\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

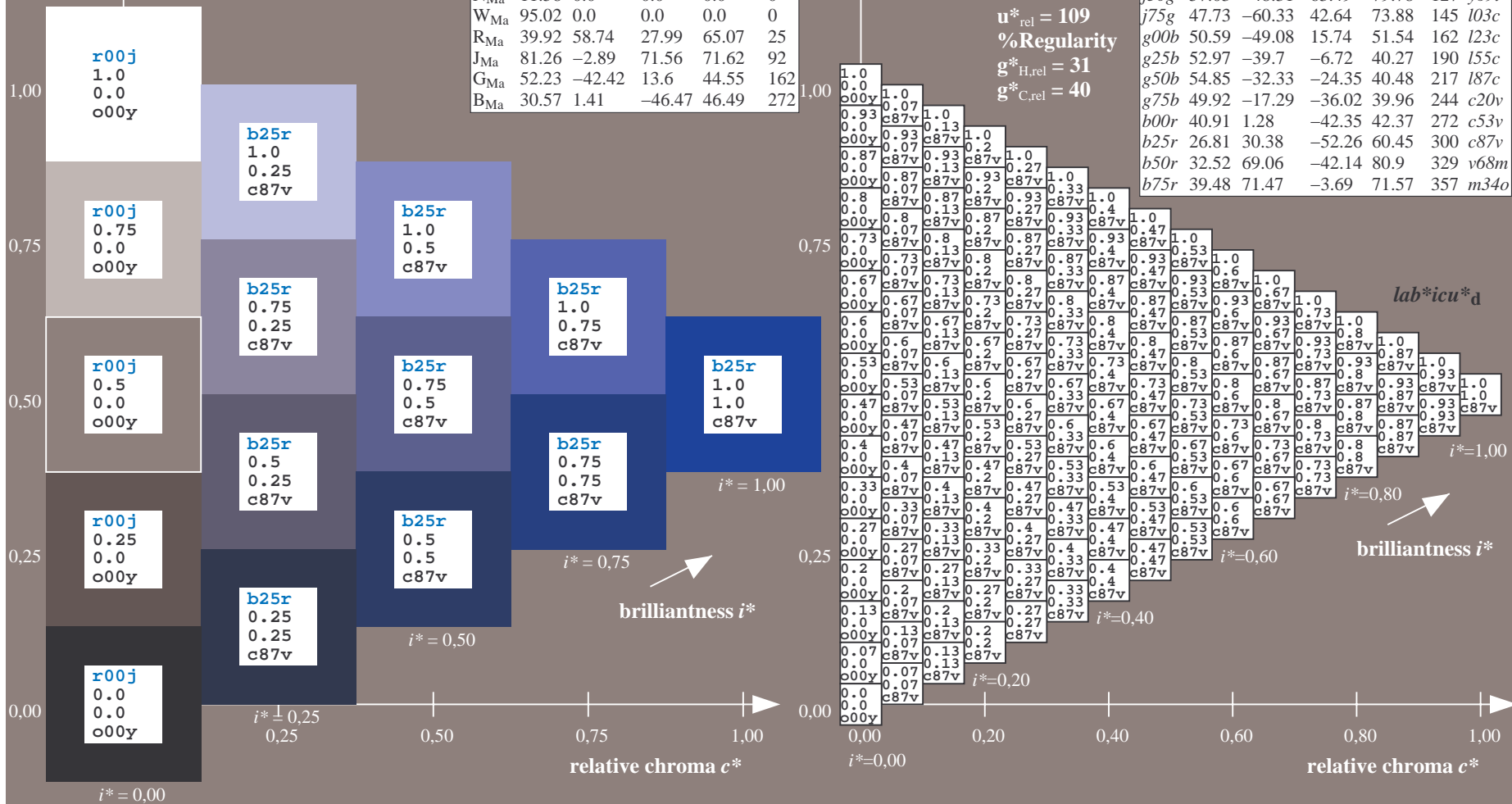
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$

$u^*_e = b50r$

data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

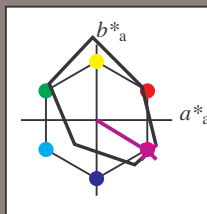
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 33\ 69\ -42$

$LAB^*LCH^*_{Ma}: 33\ 81\ 328$

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

$lab^*olv^*_{Ma}: 0.69\ 0.0\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

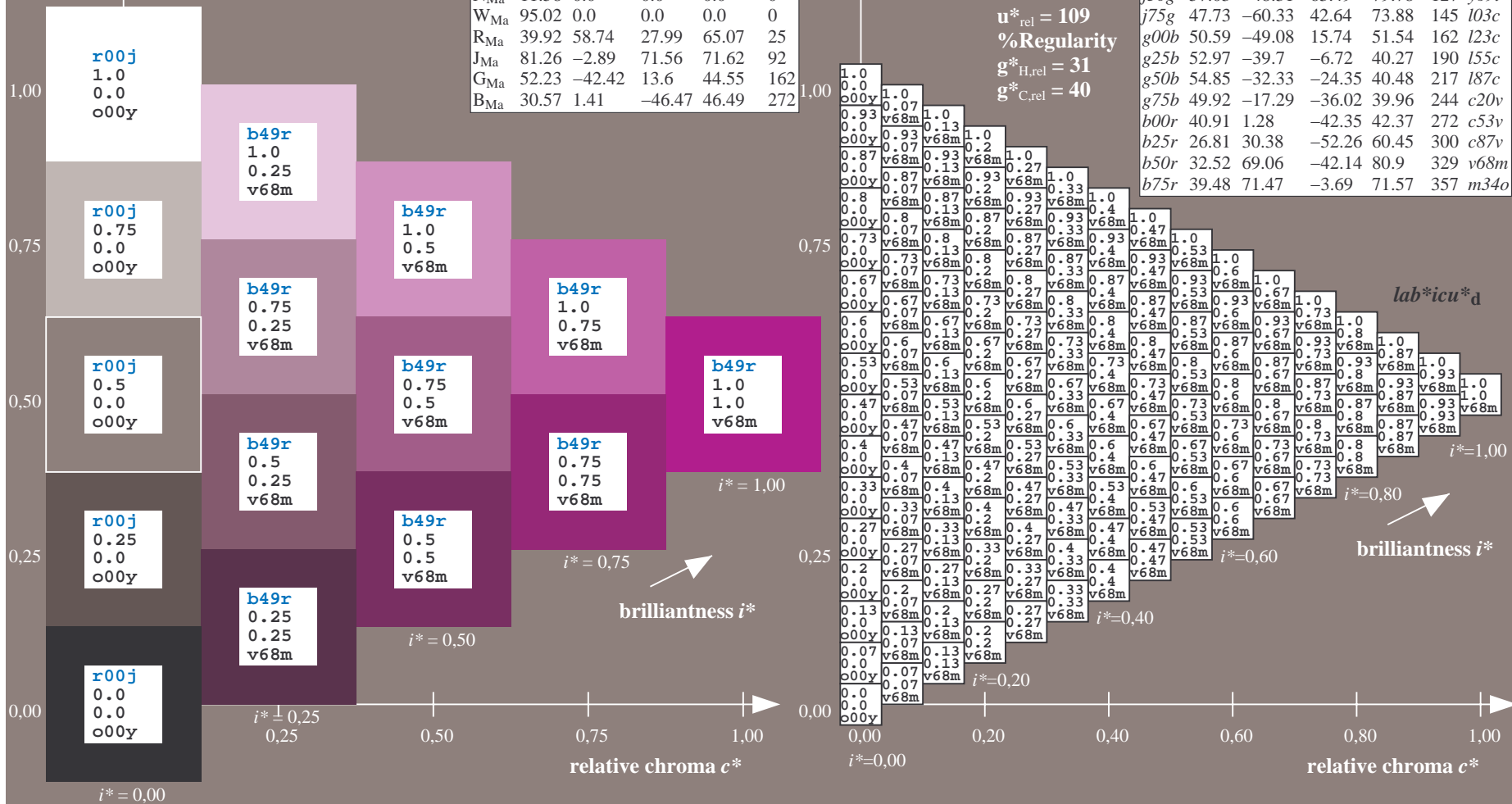
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$   
 $lab^*icu^*_d$

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

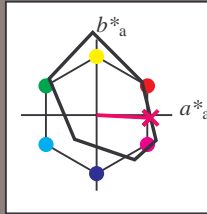
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	38.06	60.0	44.0	74.4	36
Y <sub>Ma</sub>	86.77	-5.17	109.32	109.44	93
L <sub>Ma</sub>	47.13	-62.67	48.24	79.09	142
C <sub>Ma</sub>	55.66	-29.14	-31.99	43.27	228
V <sub>Ma</sub>	17.15	50.3	-59.04	77.57	310
M <sub>Ma</sub>	40.37	78.64	-33.5	85.48	337
N <sub>Ma</sub>	11.58	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.02	0.0	0.0	0.0	0
R <sub>Ma</sub>	39.92	58.74	27.99	65.07	25
J <sub>Ma</sub>	81.26	-2.89	71.56	71.62	92
G <sub>Ma</sub>	52.23	-42.42	13.6	44.55	162
B <sub>Ma</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 39\ 71\ -4$

$LAB^*LCH^*_Ma: 39\ 72\ 357$

$lab^*rgb^*_Ma: 1.0\ 0.0\ 0.5$

$lab^*olv^*_Ma: 1.0\ 0.0\ 0.66$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

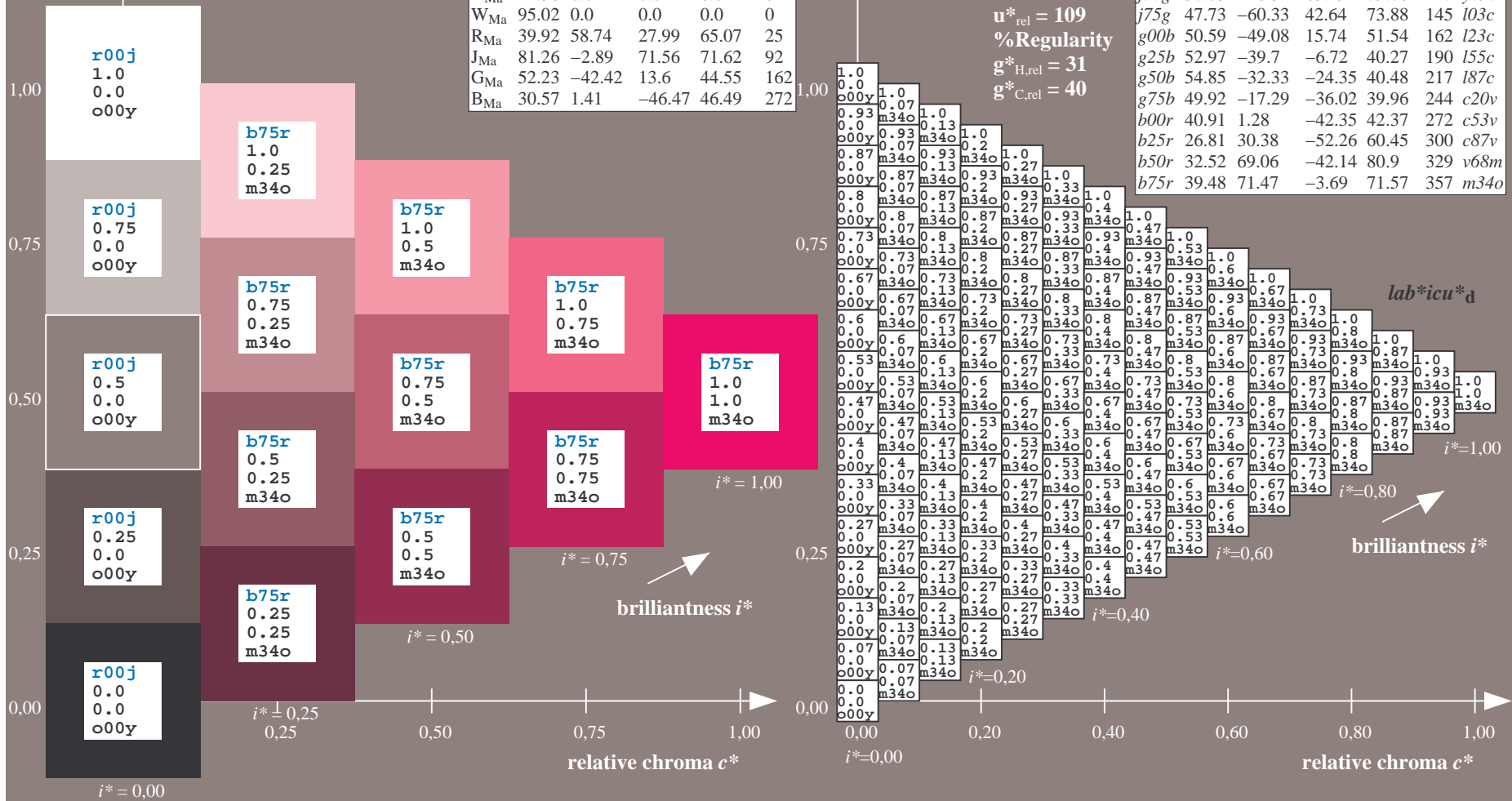
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





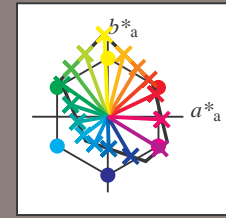




Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

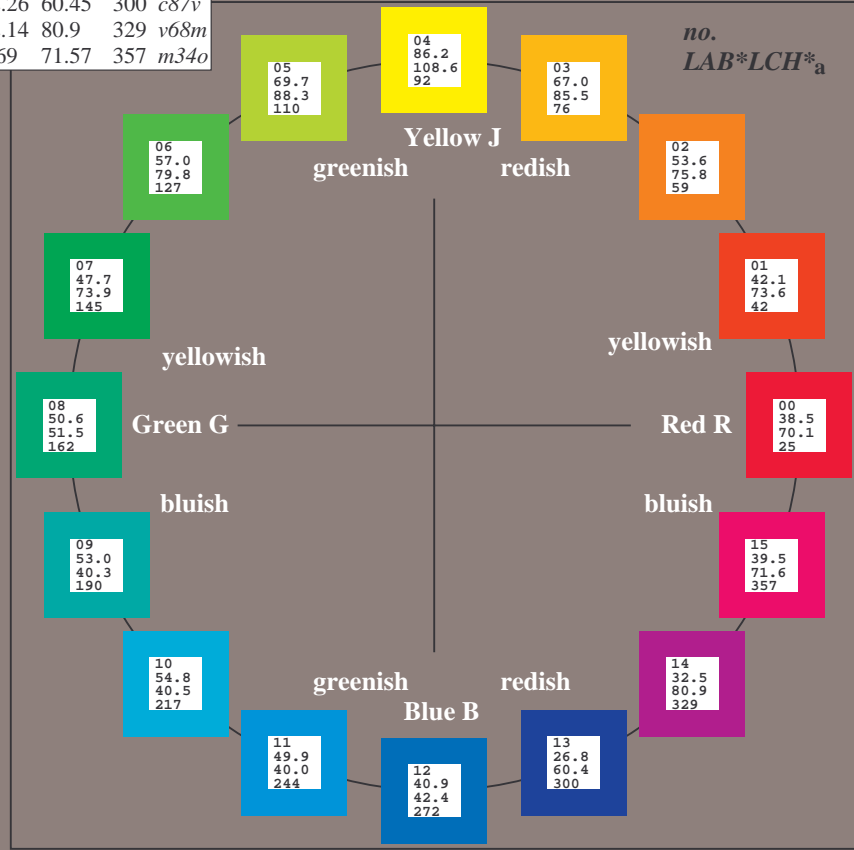
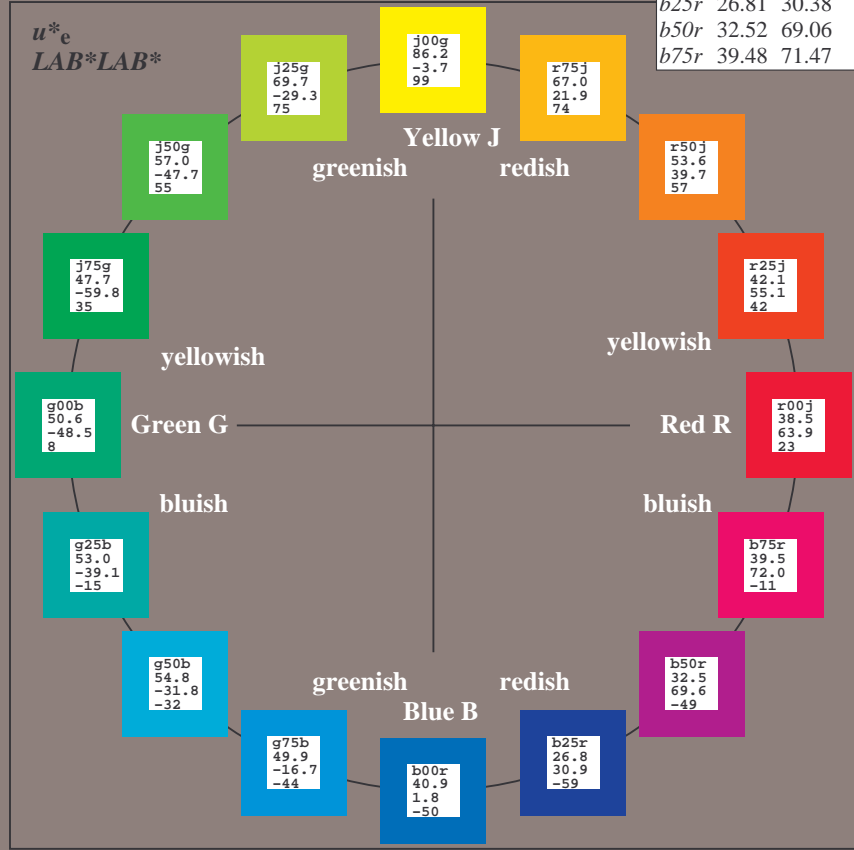
$u^*_e$  and number *no.* = 00 .. 15  
 elementary hue text:  
 $u^*_e = 16$  hues *r00j, r25j, ..., b75r*  
 contrast reduction factor:  
 $c_R = 1.0$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

FRS12_95; CIELAB data					
Name	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$   
 $LAB^*LAB^*$

$lab^*ch^*$  and  $lab^*icu^*$

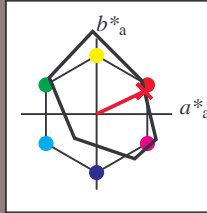
Hue texts:

$u^*_e = r00j$   $u^*_d = m8l0$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 38\ 63\ 30$

$LAB^*LCH^*_{Ma}: 38\ 70\ 25$

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

$lab^*olv^*_{Ma}: 1.0\ 0.0\ 0.18$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m8l0	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

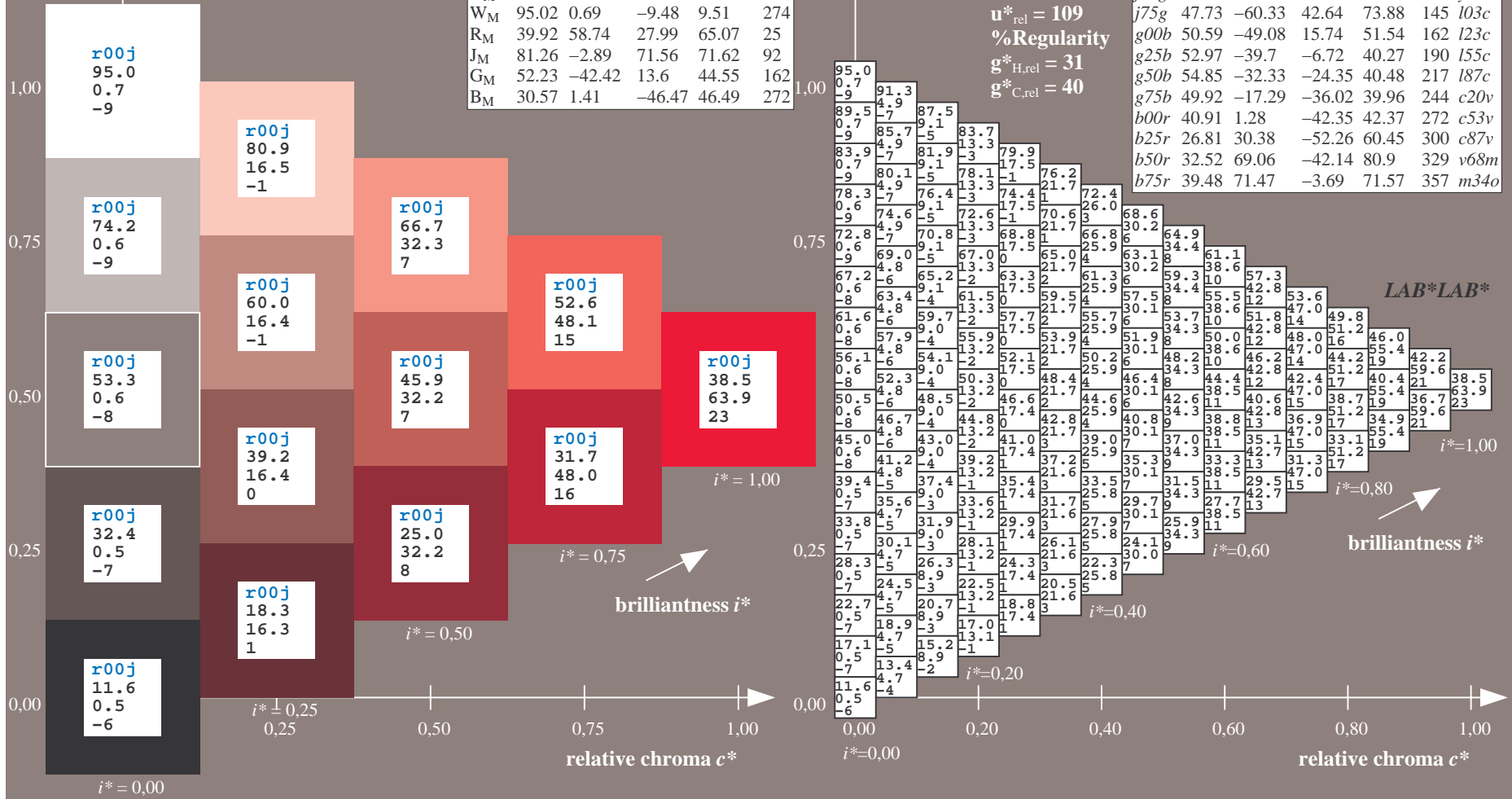
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

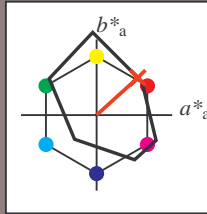
Hue texts:

$u^*_e = r25j$   $u^*_d = o10y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $i^*$



**FRS12\_95; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 42\ 55\ 49$

$LAB^*LCH^*_{Ma}: 42\ 74\ 42$

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

$lab^*olv^*_{Ma}: 1.0\ 0.11\ 0.0$

triangle lightness  $i^*$

%Gamut

$u^*_{rel} = 109$

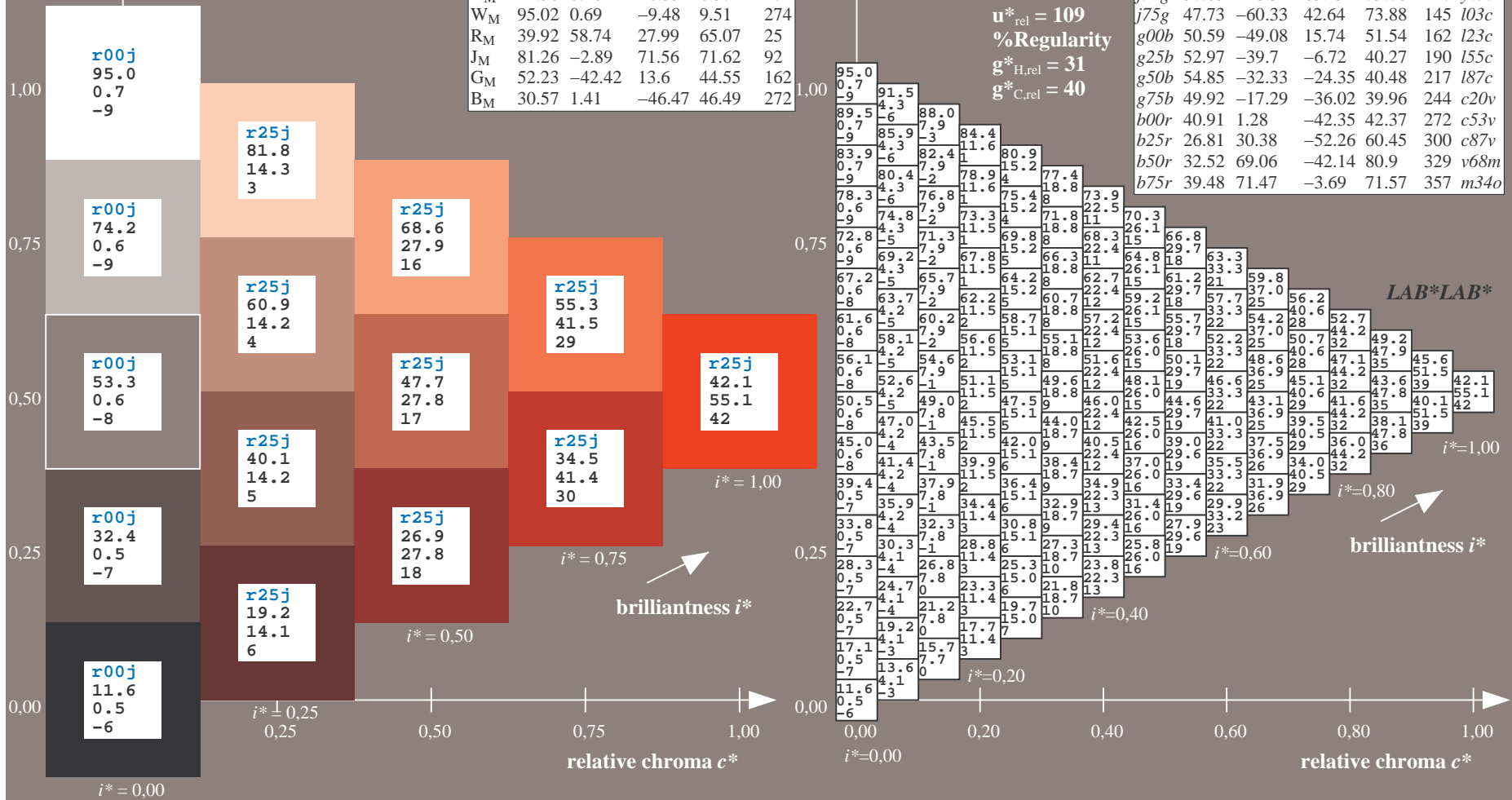
%Regularity

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

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

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	162	i03c
g00b	50.59	-49.08	15.74	51.54	162	123c	
g25b	52.97	-39.7	-6.72	40.27	190	155c	
g50b	54.85	-32.33	-24.35	40.48	217	187c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$   
 data for any colour:

$u^*_e = r50j$   
 $LAB^*LAB^*$

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

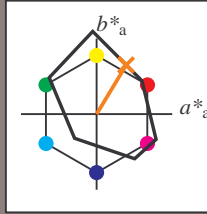
Hue texts:

$u^*_e = r50j$   $u^*_d = o40y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 54\ 39\ 65$

$LAB^*LCH^*_{Ma}: 54\ 76\ 58$

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

$lab^*olv^*_{Ma}: 1.0\ 0.4\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

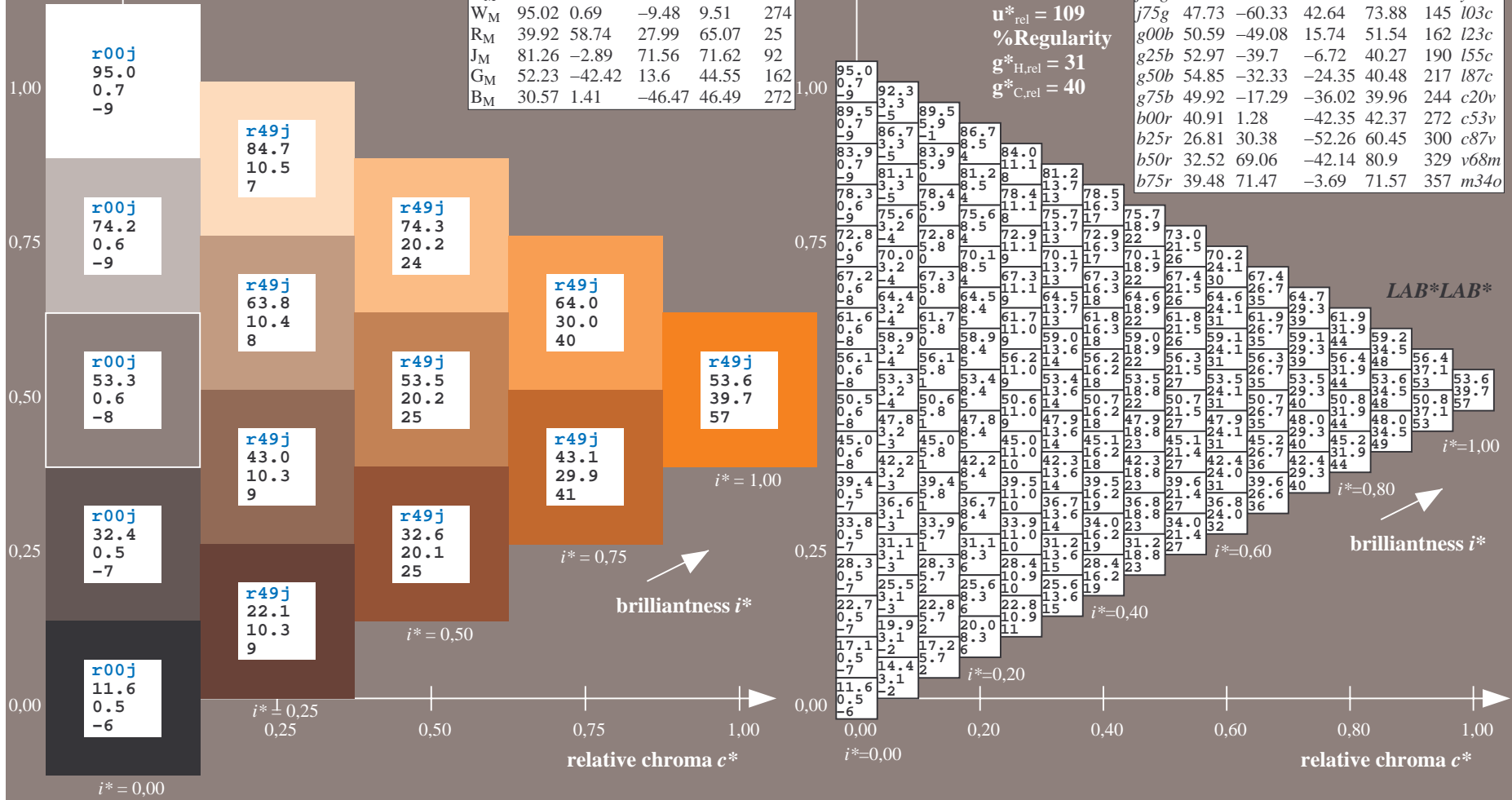
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$   
 $LAB^*LAB^*$

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

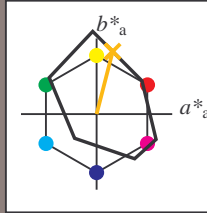
Hue texts:

$u^*_e = r75j$   $u^*_d = o69y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95; CIELAB data						
	$u^*_e$	$L^*=L^*_a$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 67\ 21\ 83$

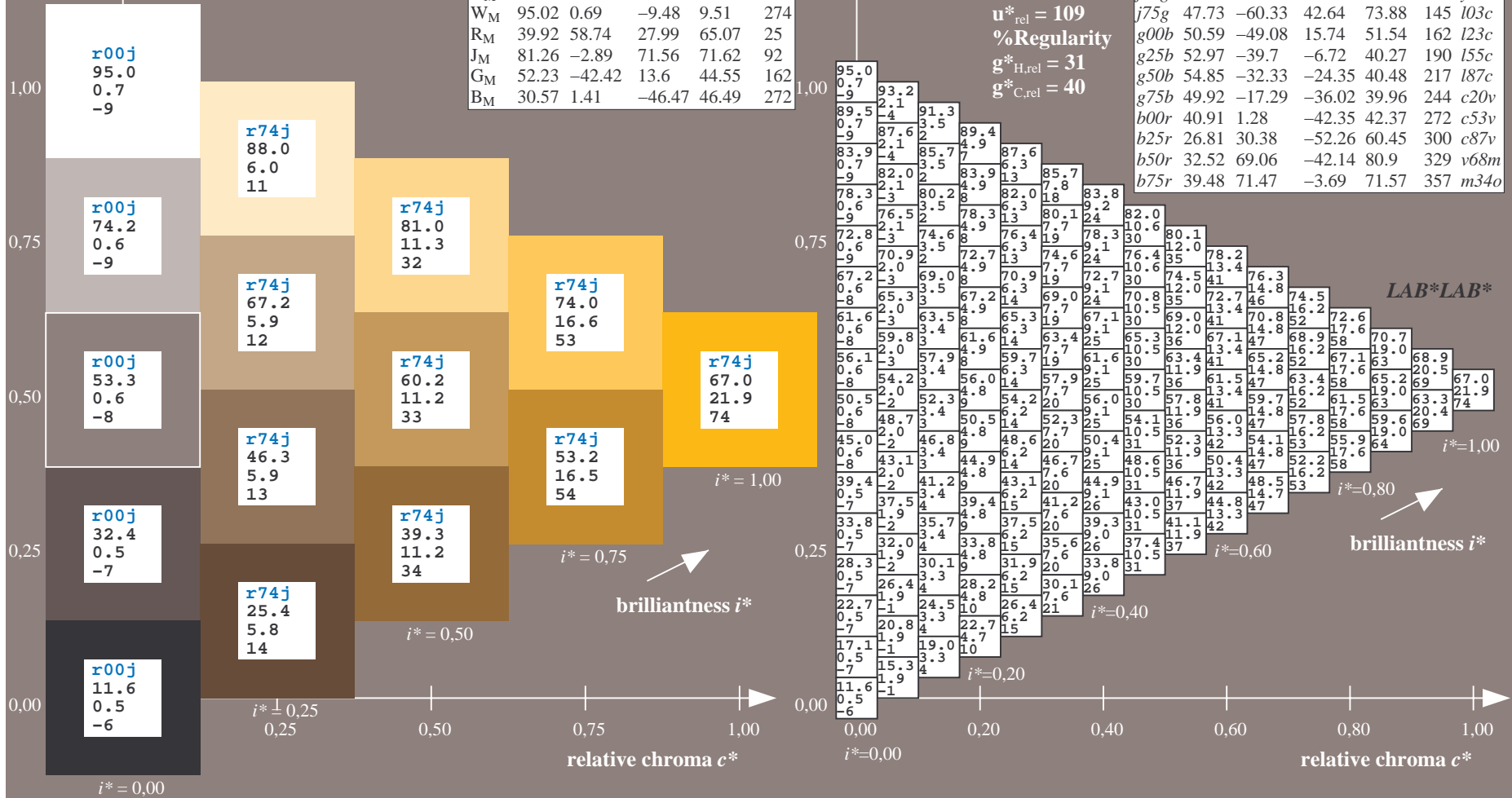
$LAB^*LCH^*_Ma: 67\ 86\ 75$

$lab^*rgb^*_Ma: 1.0\ 0.75\ 0.0$

$lab^*olv^*_Ma: 1.0\ 0.7\ 0.0$

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$

$u^*_e = j00g$   
LAB\*LAB\*

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

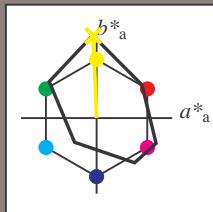
Hue texts:

$u^*_e = j00g$   $u^*_d = o98y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $i^*$



FRS12_95; CIELAB data						
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 86 -4 109

LAB\*LCH\*<sub>Ma</sub>: 86 109 92

lab\*rgb\*<sub>Ma</sub>: 1.0 1.0 0.0

lab\*olv\*<sub>Ma</sub>: 1.0 0.99 0.0

triangle lightness  $i^*$

FRS12_95a; adapted (a) CIELAB data							
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l23c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

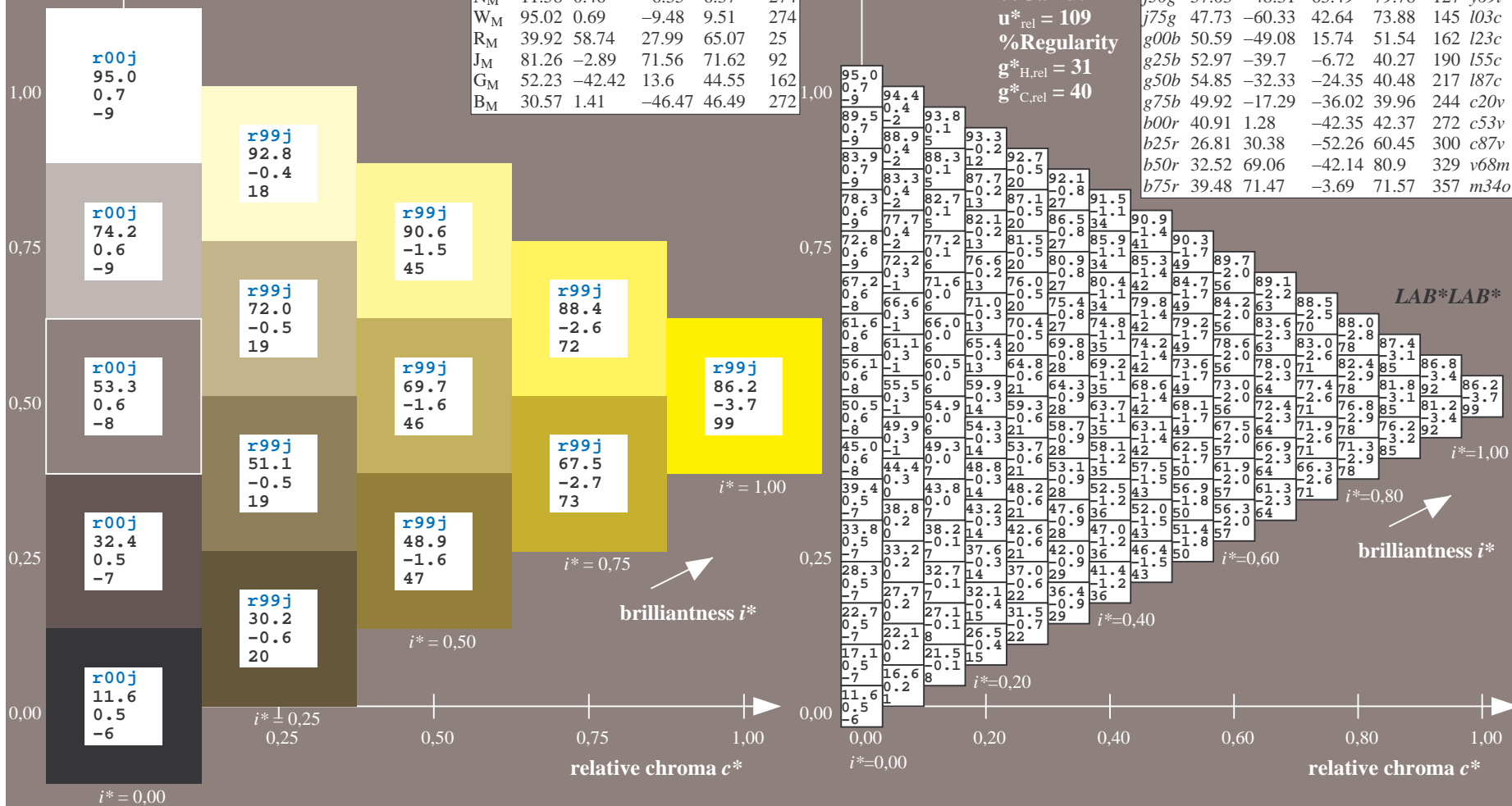
% Gamut

$u^*_{rel} = 109$

% Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$

$u^*_e = j25g$   
LAB\*LAB\*

data for any colour:

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

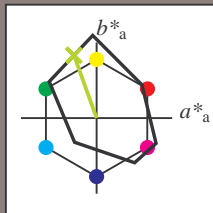
Hue texts:

$u^*_e = j25g$   $u^*_d = y34l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95; CIELAB data						
	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 70 -30 83

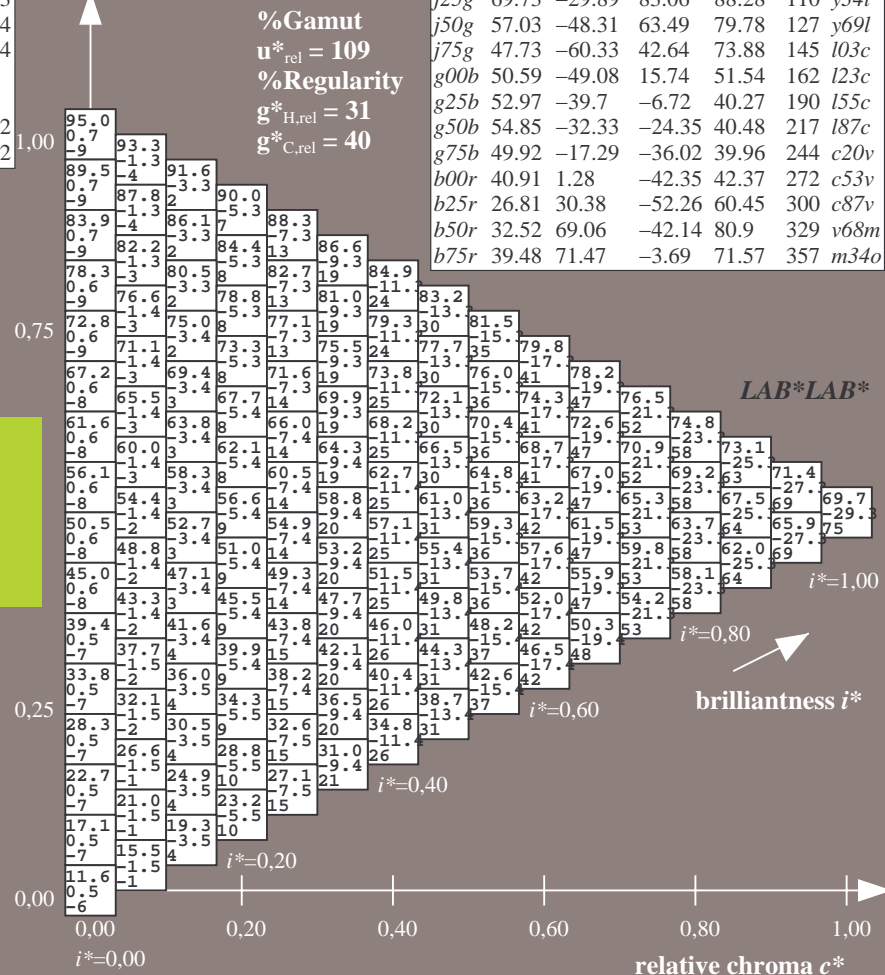
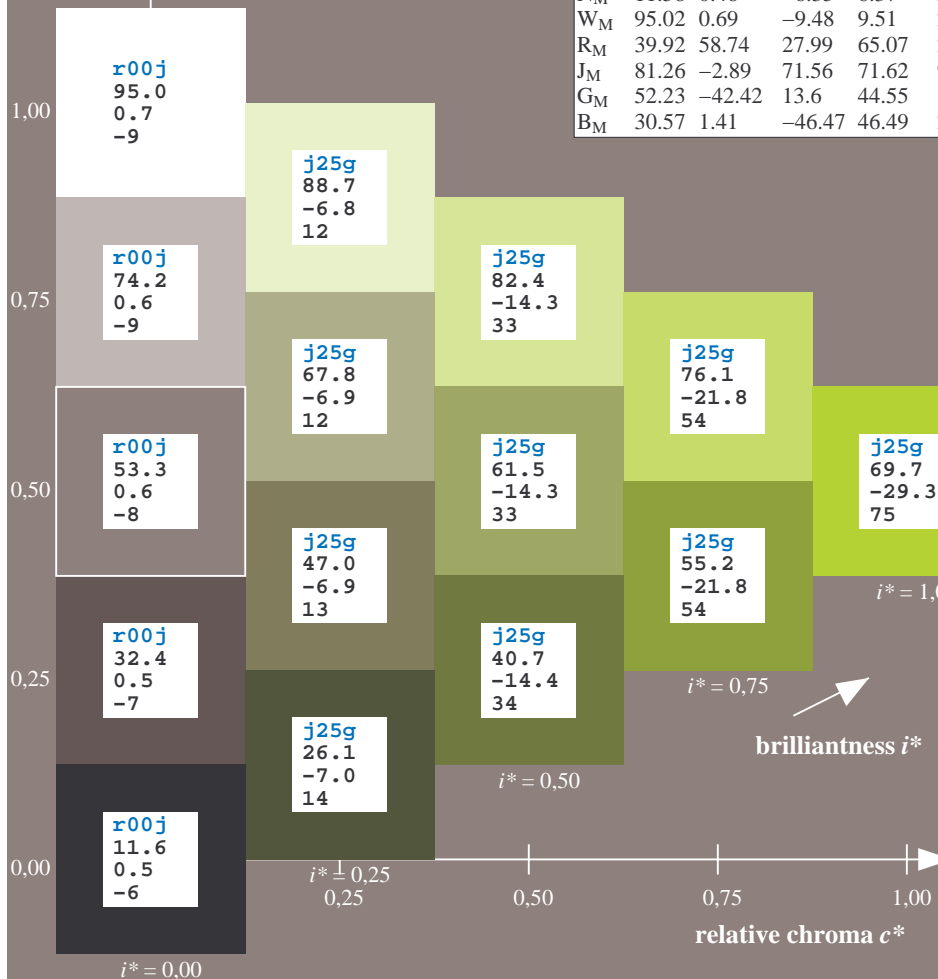
LAB\*LCH\*<sub>Ma</sub>: 70 88 109

lab\*rgb\*<sub>Ma</sub>: 0.75 1.0 0.0

lab\*olv\*<sub>Ma</sub>: 0.66 1.0 0.0

triangle lightness  $t^*$

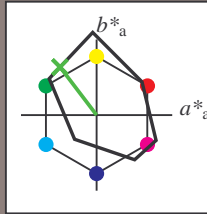
FRS12_95a; adapted (a) CIELAB data							
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$   
 data for any colour:

$u^*_e = j50g$   
 $LAB^*LAB^*$

$lab^*tc^*$  and  $lab^*icu^*$



**FRS12\_95; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

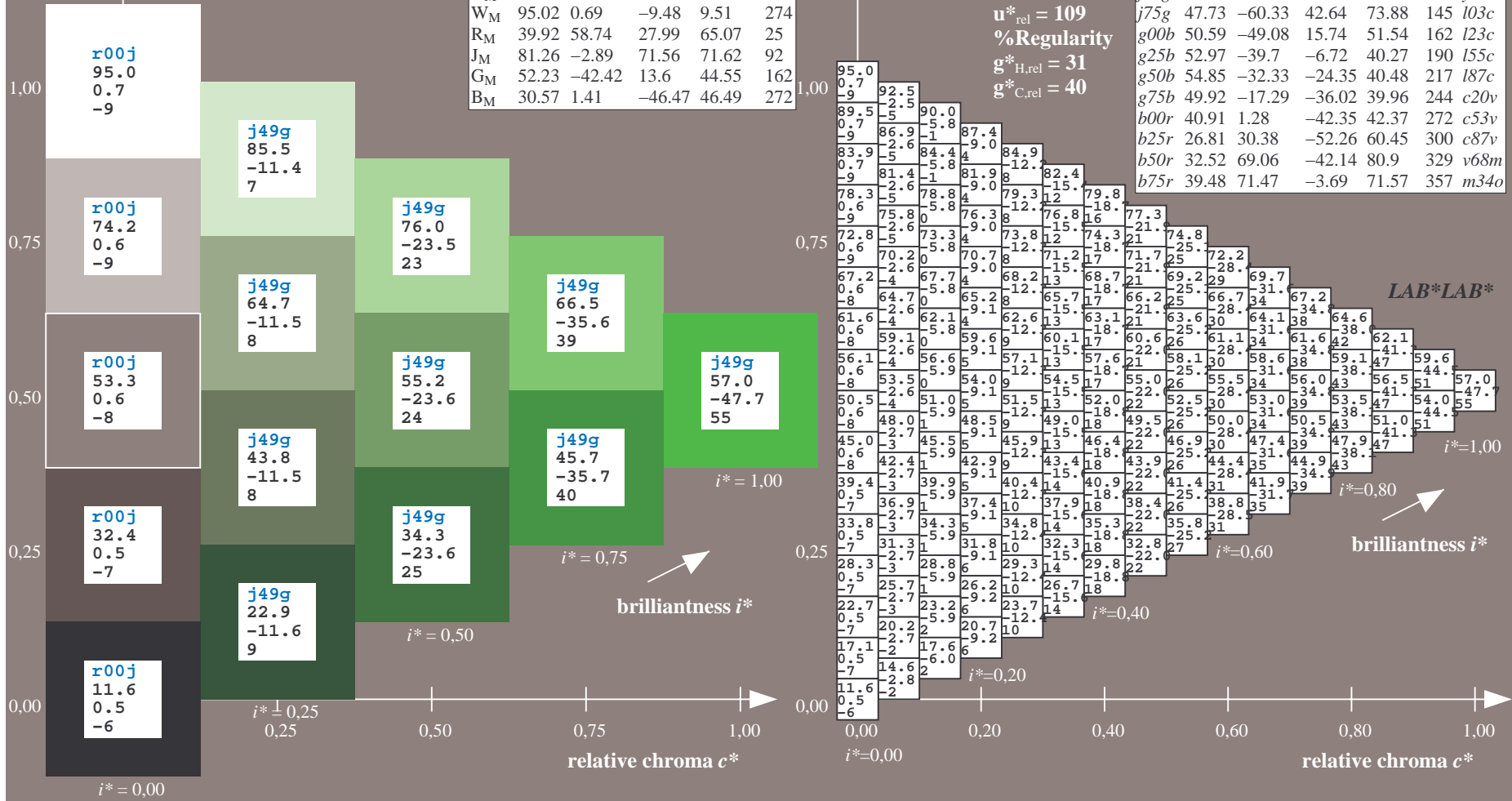
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$

$u^*_e = j75g$   
LAB\*LAB\*

data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

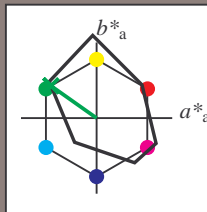
Hue texts:

$u^*_e = j75g$   $u^*_d = l03c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 48 -60 43

LAB\*LCH\*<sub>Ma</sub>: 48 74 144

lab\*rgb\*<sub>Ma</sub>: 0.25 1.0 0.0

lab\*olv\*<sub>Ma</sub>: 0.0 1.0 0.03

triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 109$

%Regularity

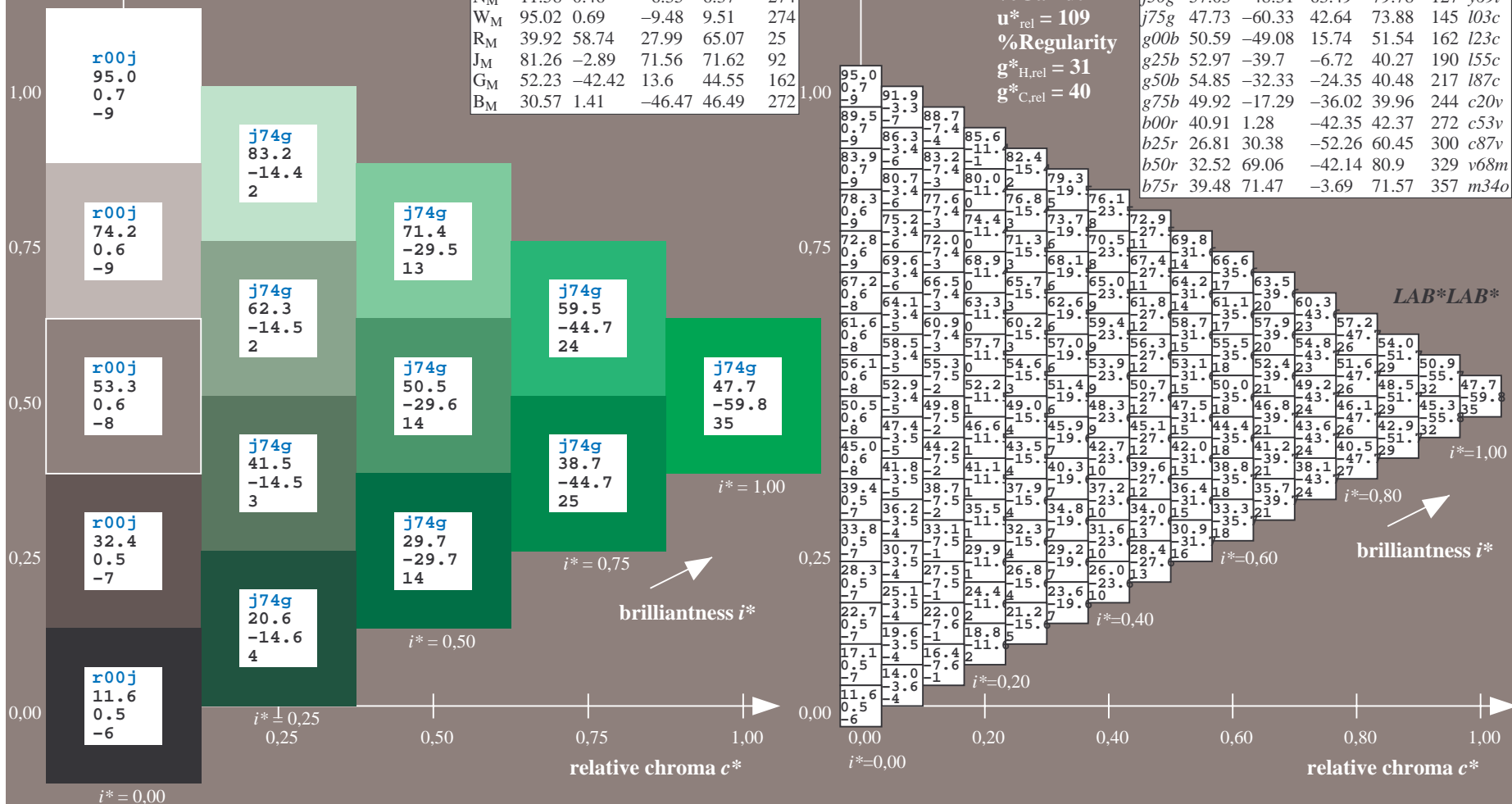
$g^*_{H,rel} = 31$

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

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

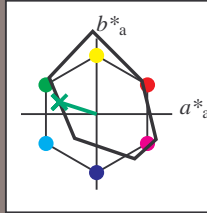
LAB\*LAB\*



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$   
 $LAB^*LAB^*$

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



**FRS12\_95; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 51 -49 16$

$LAB^*LCH^*_{Ma}: 51 52 162$

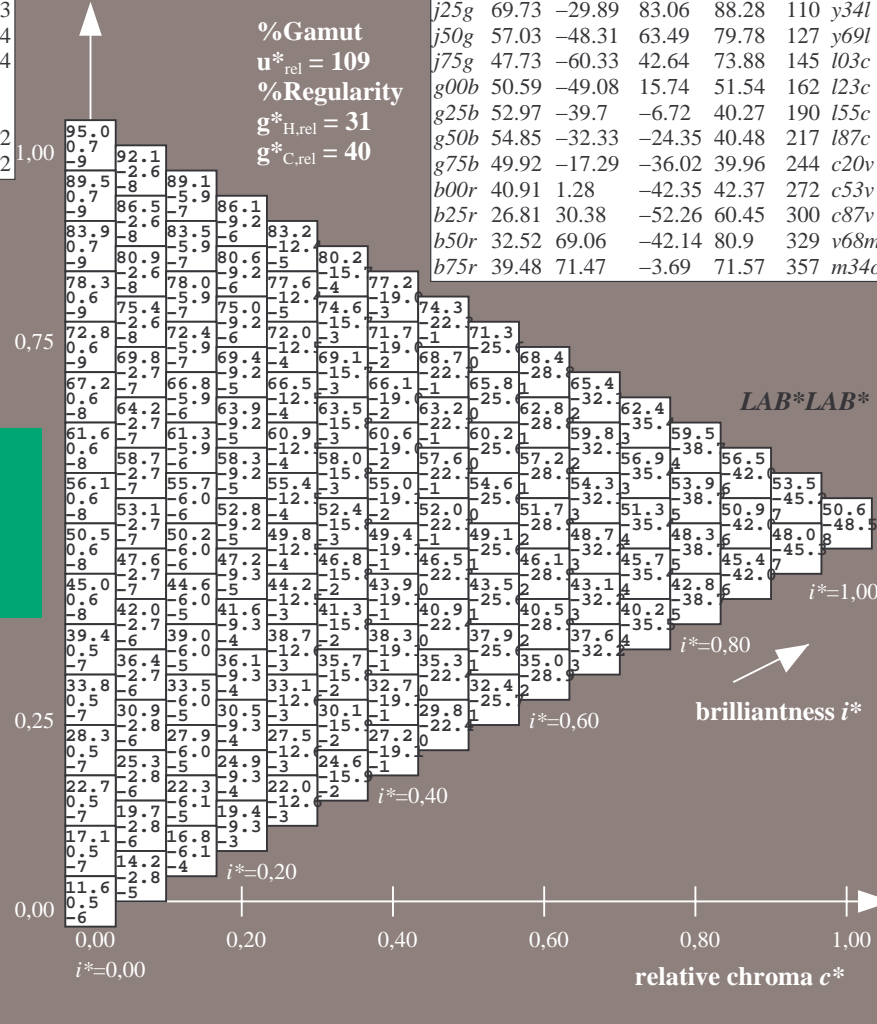
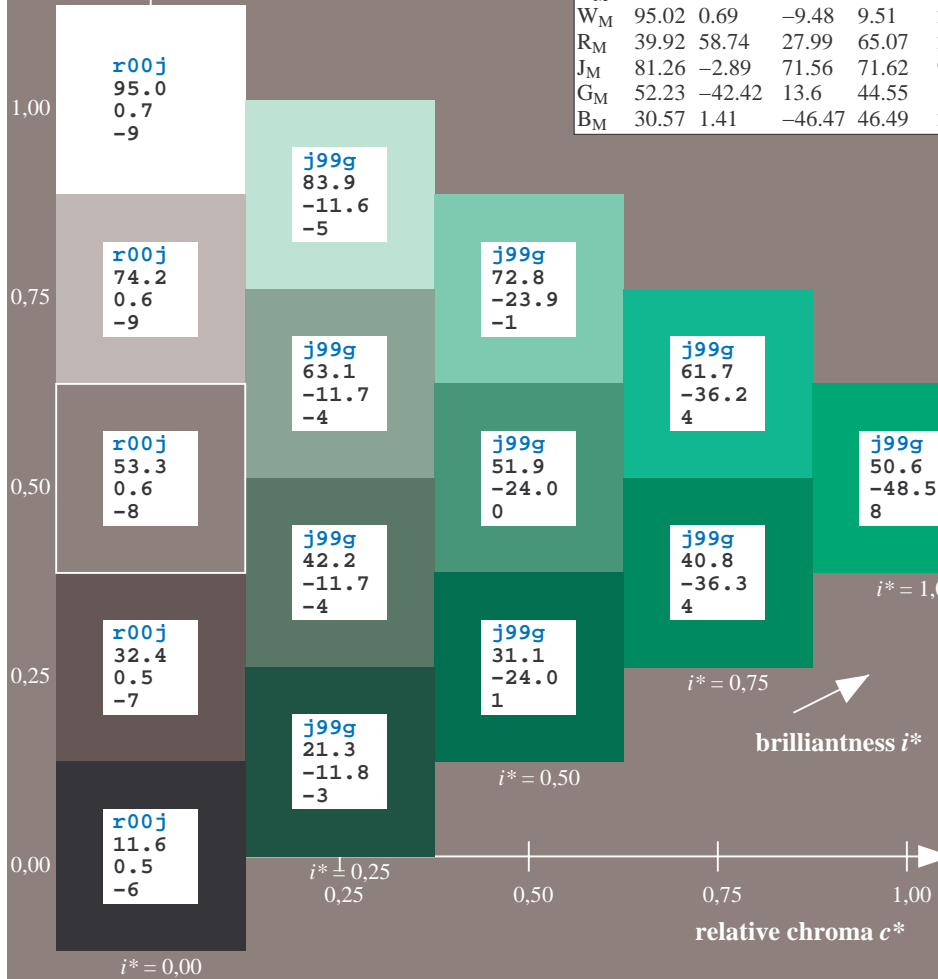
$lab^*rgb^*_{Ma}: 0.0 1.0 0.0$

$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

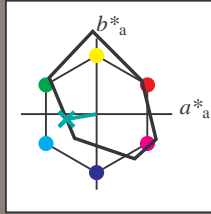
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $LAB^*LAB^*$

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g25b$   $u^*_d = l55c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

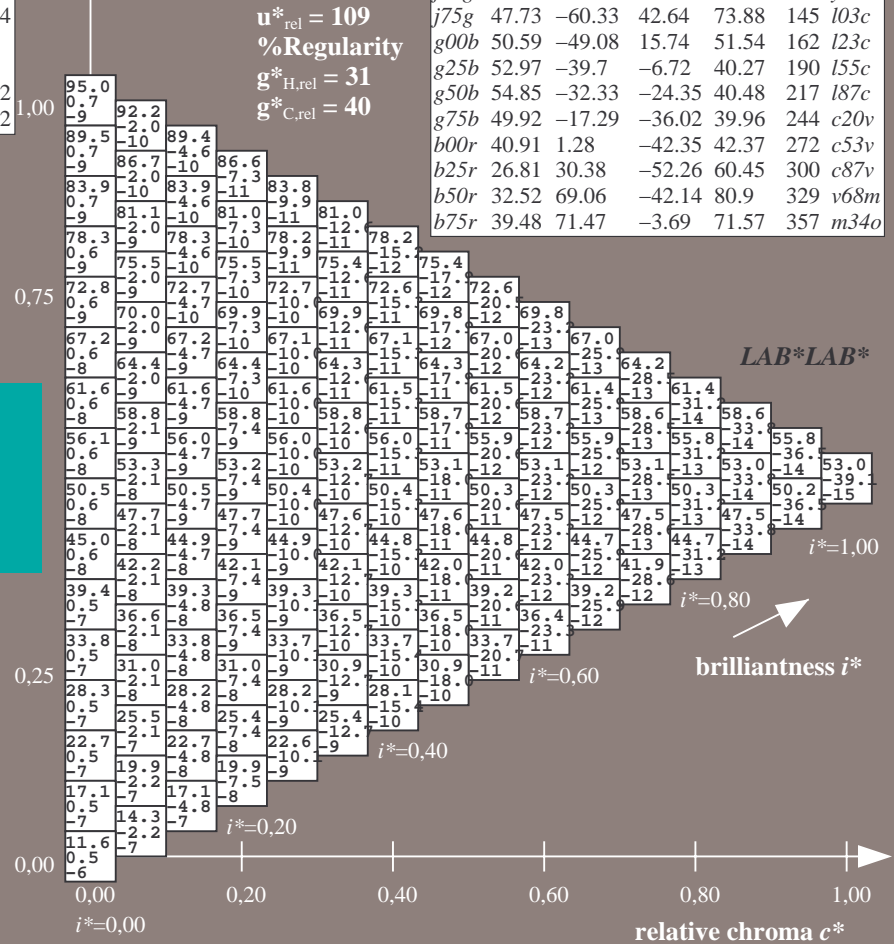
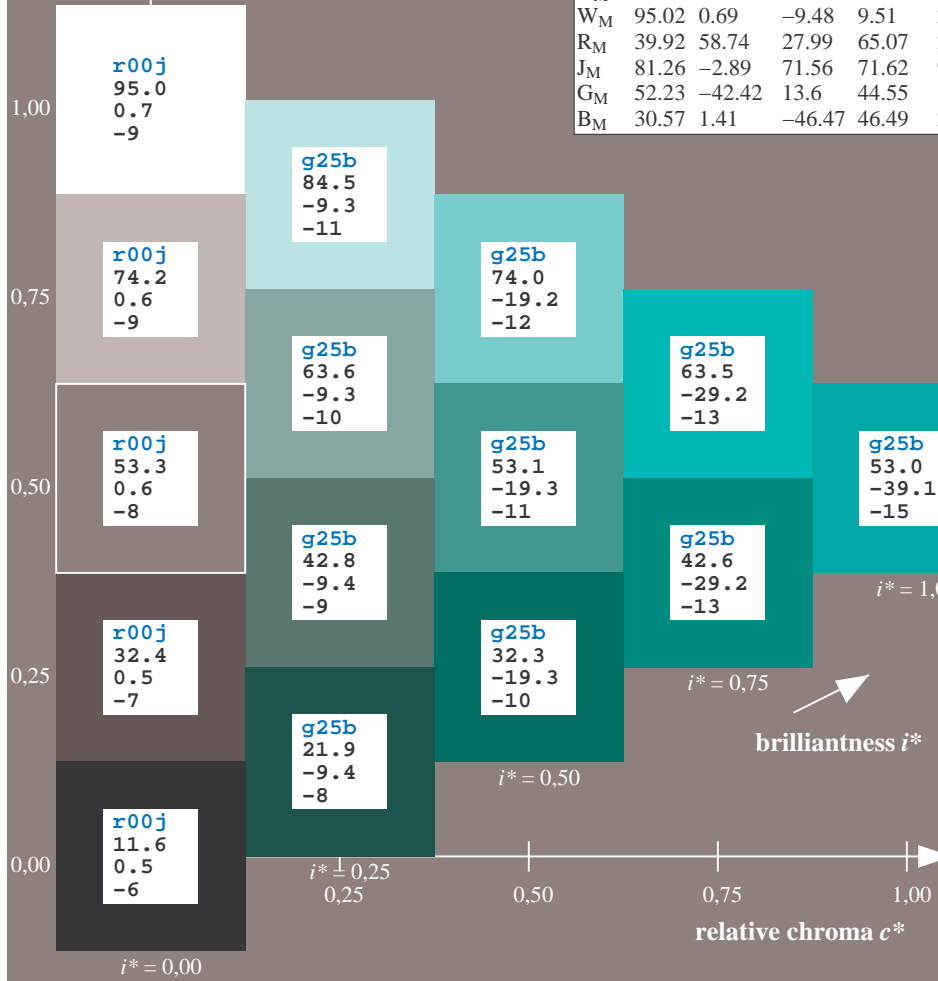
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

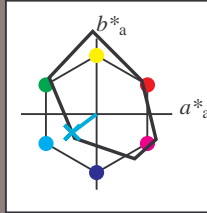




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $LAB^*LAB^*$

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g50b$   $u^*_d = l87c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

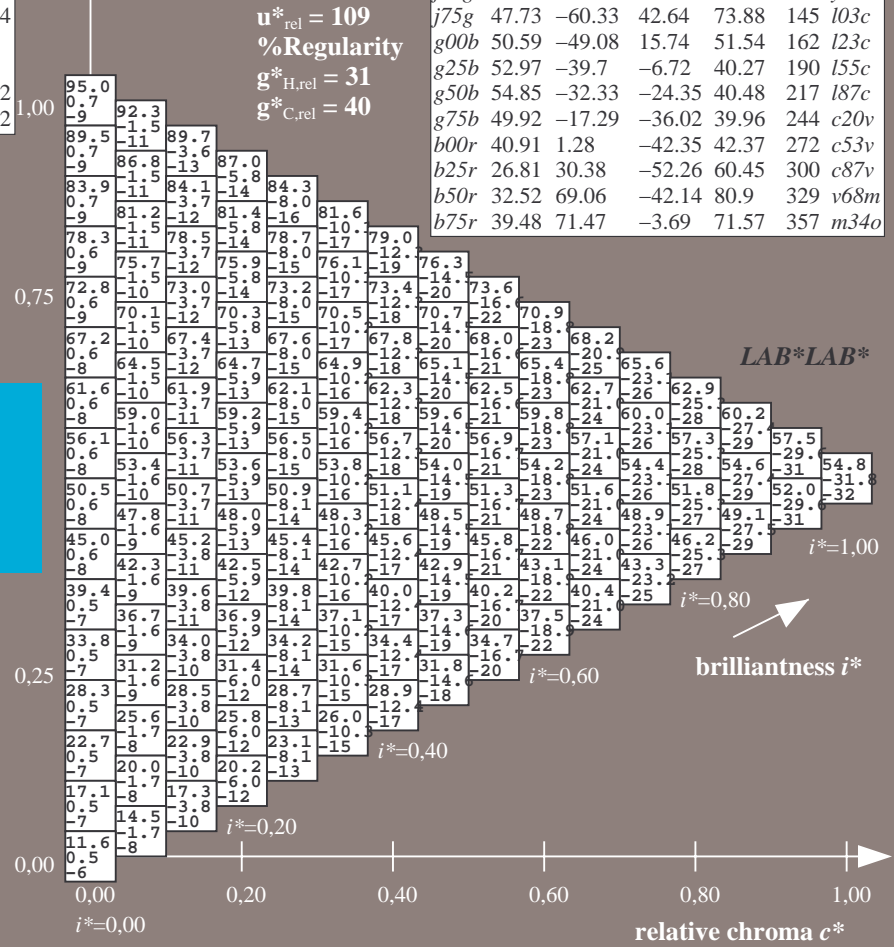
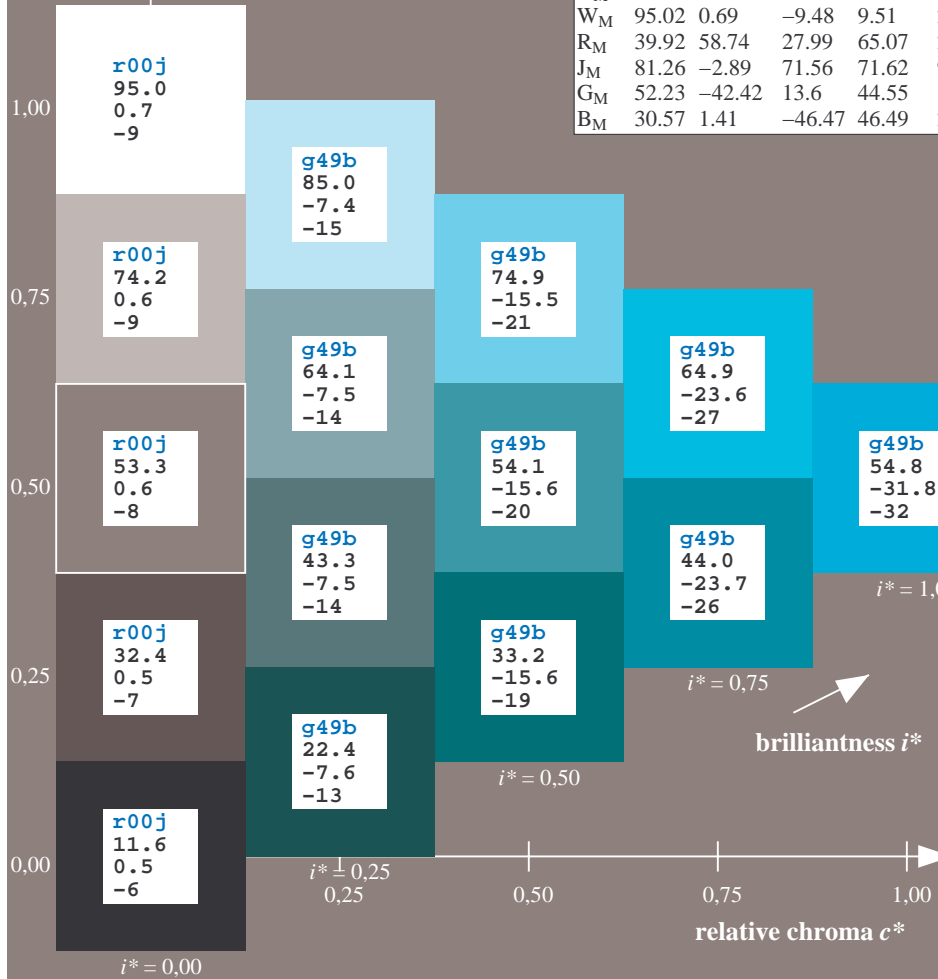
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$

$u^*_e = g75b$

LAB\*LAB\*

data for any colour:

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

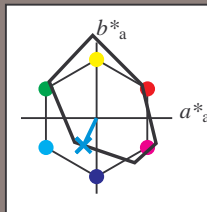
Hue texts:

$u^*_e = g75b$   $u^*_d = c20v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 50 -17 -36

LAB\*LCH\*<sub>Ma</sub>: 50 40 244

lab\*rgb\*<sub>Ma</sub>: 0.0 0.5 1.0

lab\*olv\*<sub>Ma</sub>: 0.0 0.8 1.0

triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 109$

%Regularity

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

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

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

LAB\*LAB\*

brilliantness  $i^*$

$i^* = 1.00$

$i^* = 0.80$

$i^* = 0.60$

$i^* = 0.40$

$i^* = 0.20$

$i^* = 0.00$

relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$

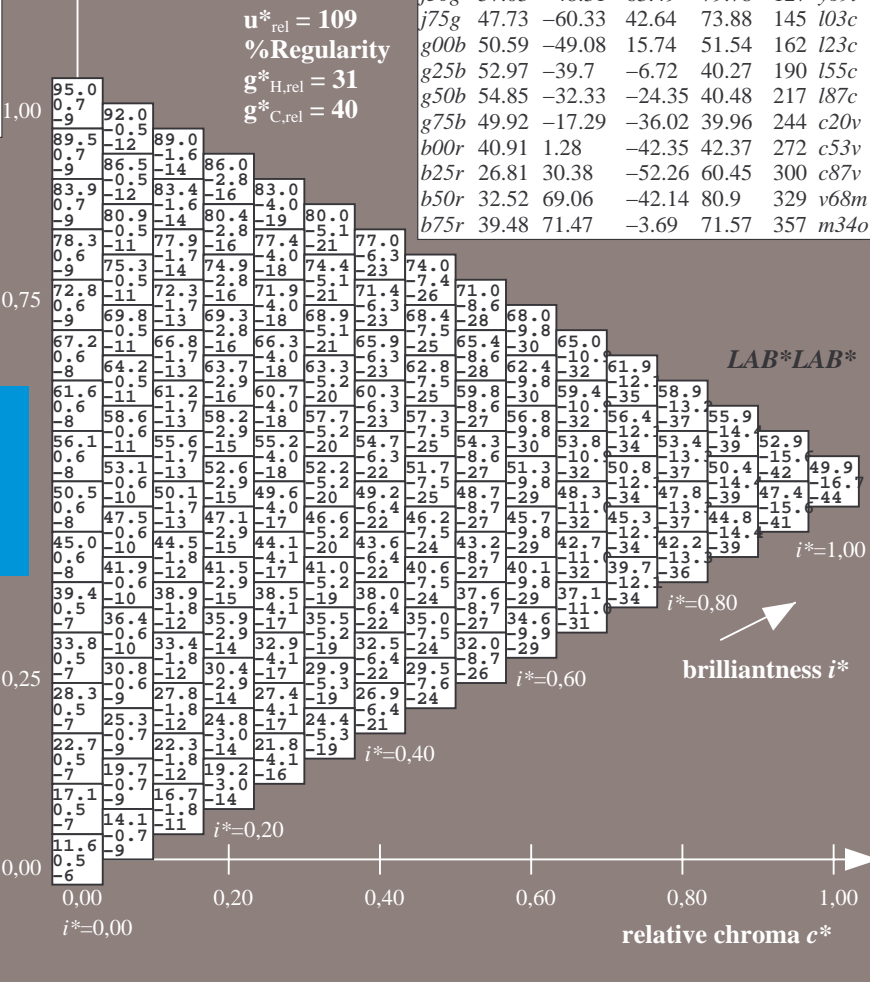
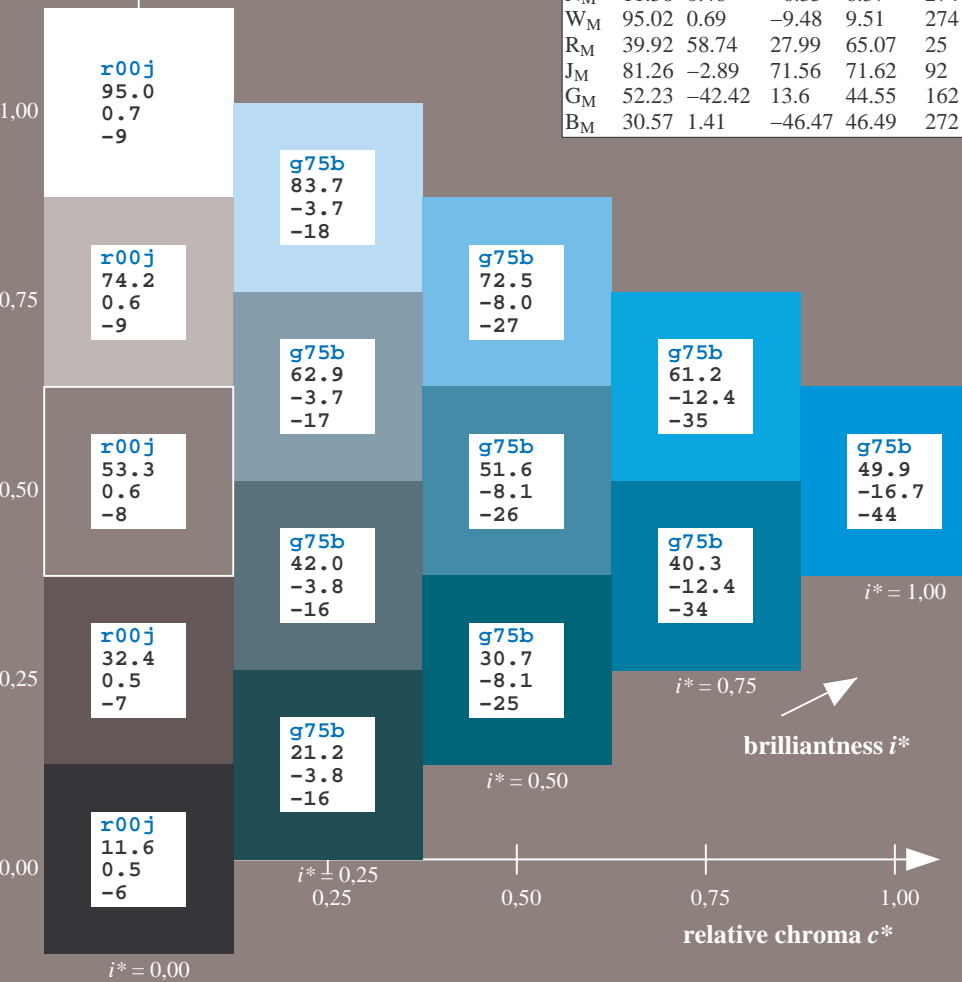
relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$

relative chroma  $c^*$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$

LAB\*LAB\*

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

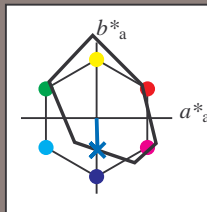
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $i^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 41 1 -42

LAB\*LCH\*<sub>Ma</sub>: 41 42 271

lab\*rgb\*<sub>Ma</sub>: 0.0 0.0 1.0

lab\*olv\*<sub>Ma</sub>: 0.0 0.47 1.0

triangle lightness  $i^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

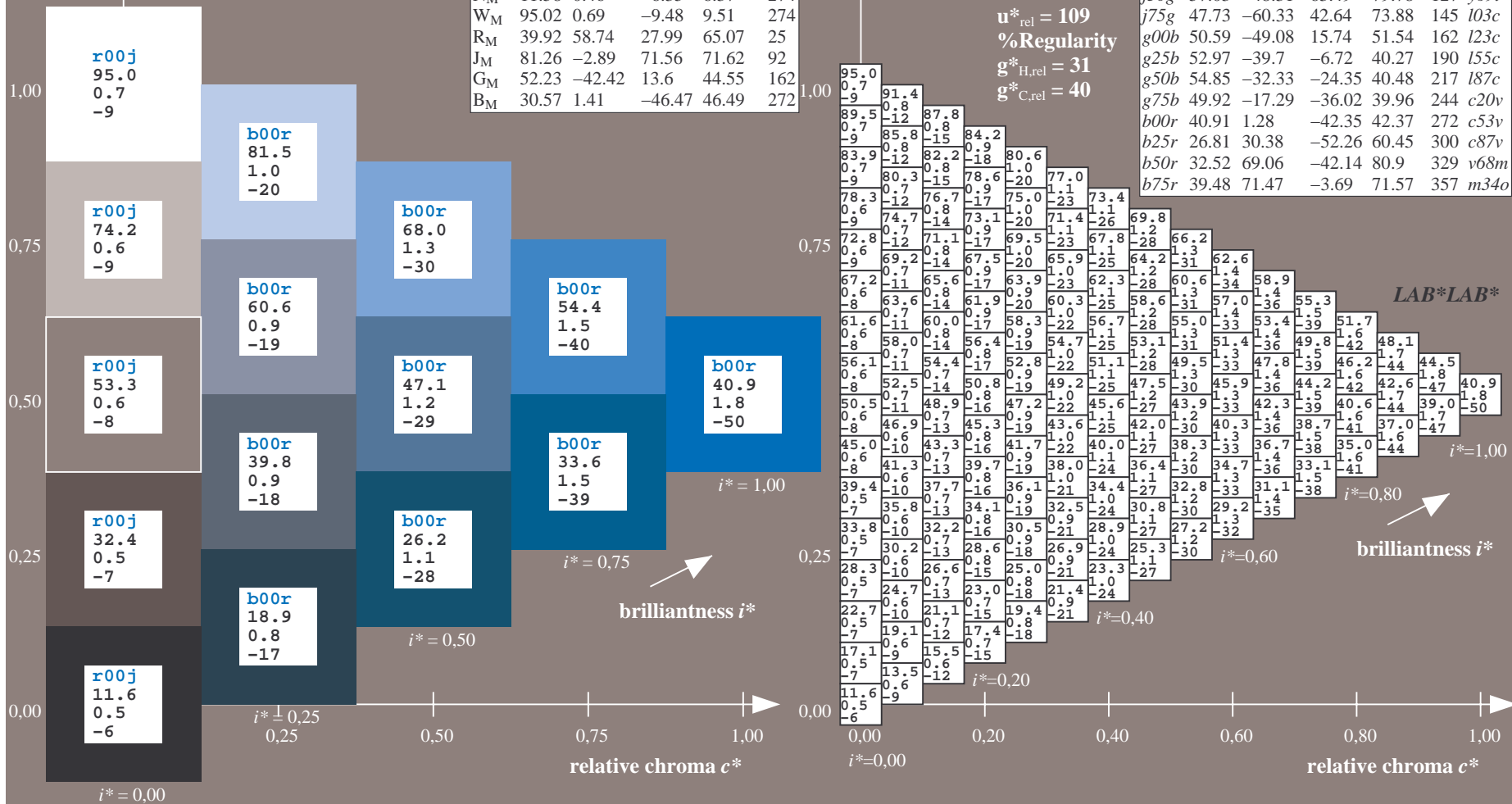
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$

LAB\*LAB\*

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

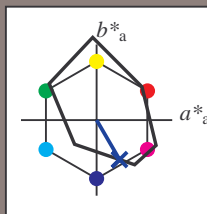
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $i^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 27 30 -52

LAB\*LCH\*<sub>Ma</sub>: 27 60 300

lab\*rgb\*<sub>Ma</sub>: 0.5 0.0 1.0

lab\*olv\*<sub>Ma</sub>: 0.0 0.12 1.0

triangle lightness  $i^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

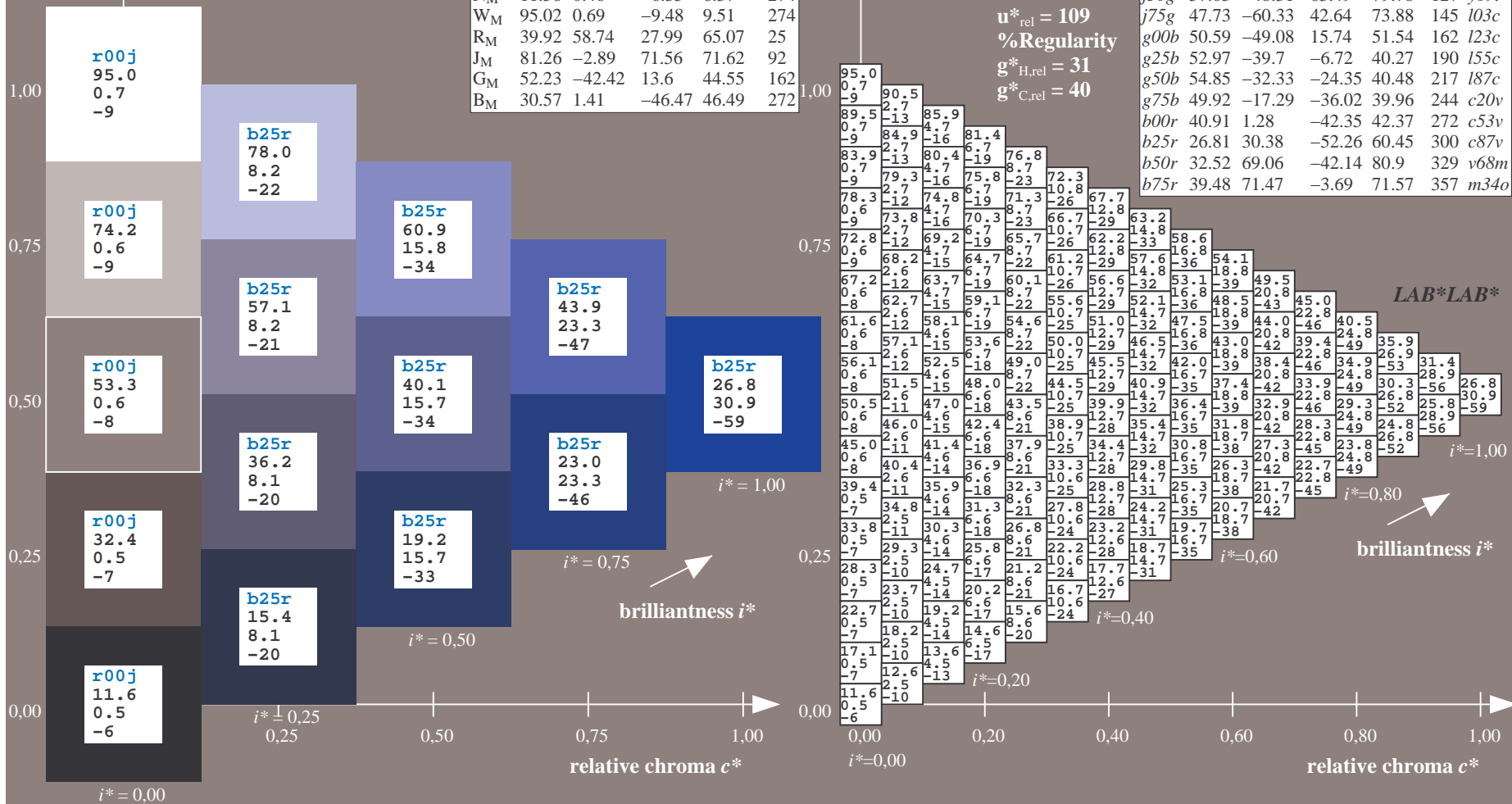
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$

$u^*_e = b50r$

LAB\*LAB\*

data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

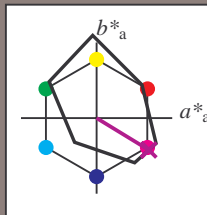
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 33 69 -42

LAB\*LCH\*<sub>Ma</sub>: 33 81 328

lab\*rgb\*<sub>Ma</sub>: 1.0 0.0 1.0

lab\*olv\*<sub>Ma</sub>: 0.69 0.0 1.0

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

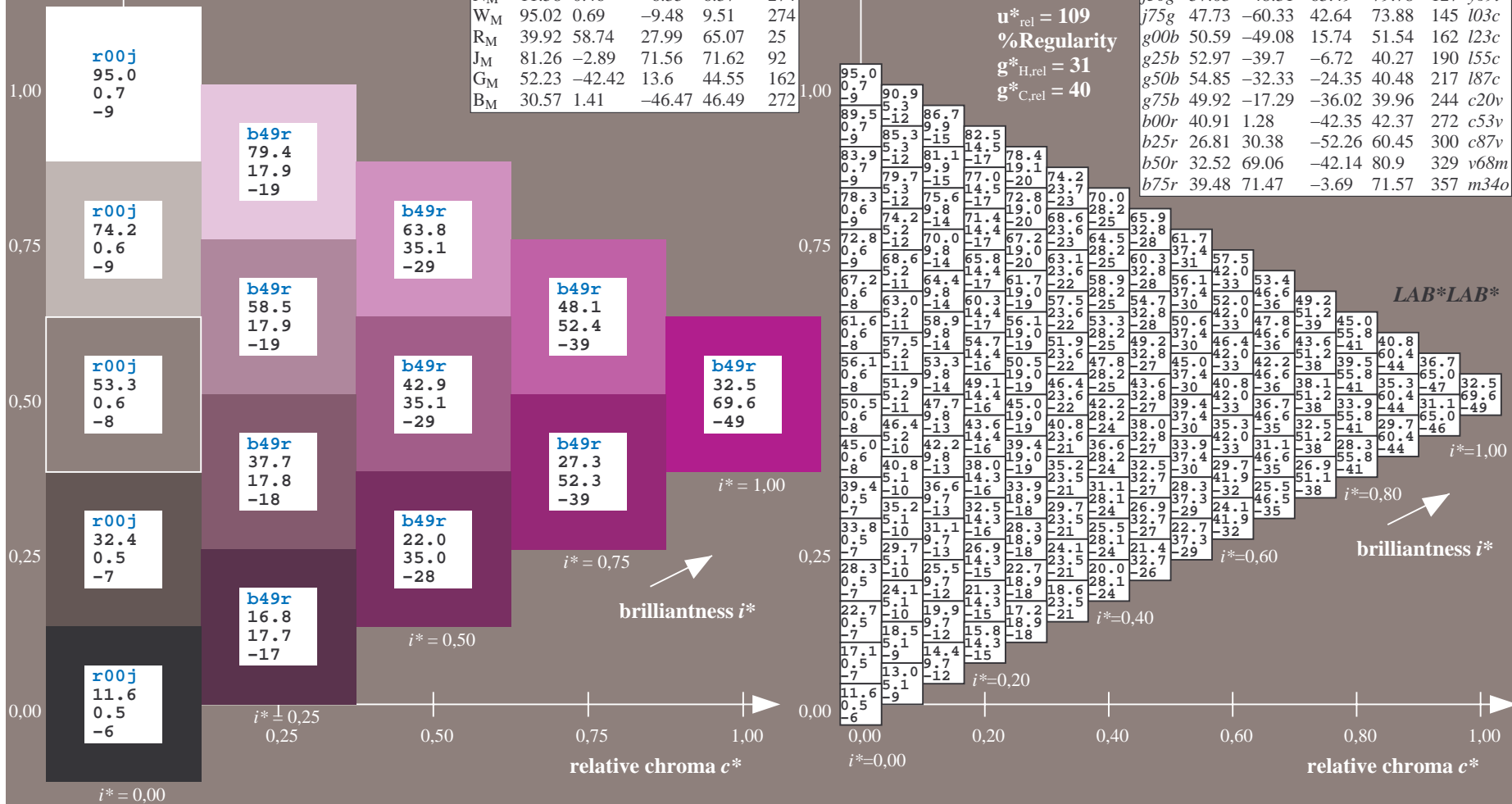
%Gamut

$u^*_{rel} = 109$

%Regularity

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

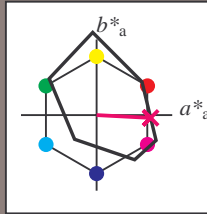
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$   
 $LAB^*LAB^*$

$lab^*ch^*$  and  $lab^*icu^*$



FRS12\_95; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 39\ 71\ -4$

$LAB^*LCH^*_{Ma}: 39\ 72\ 357$

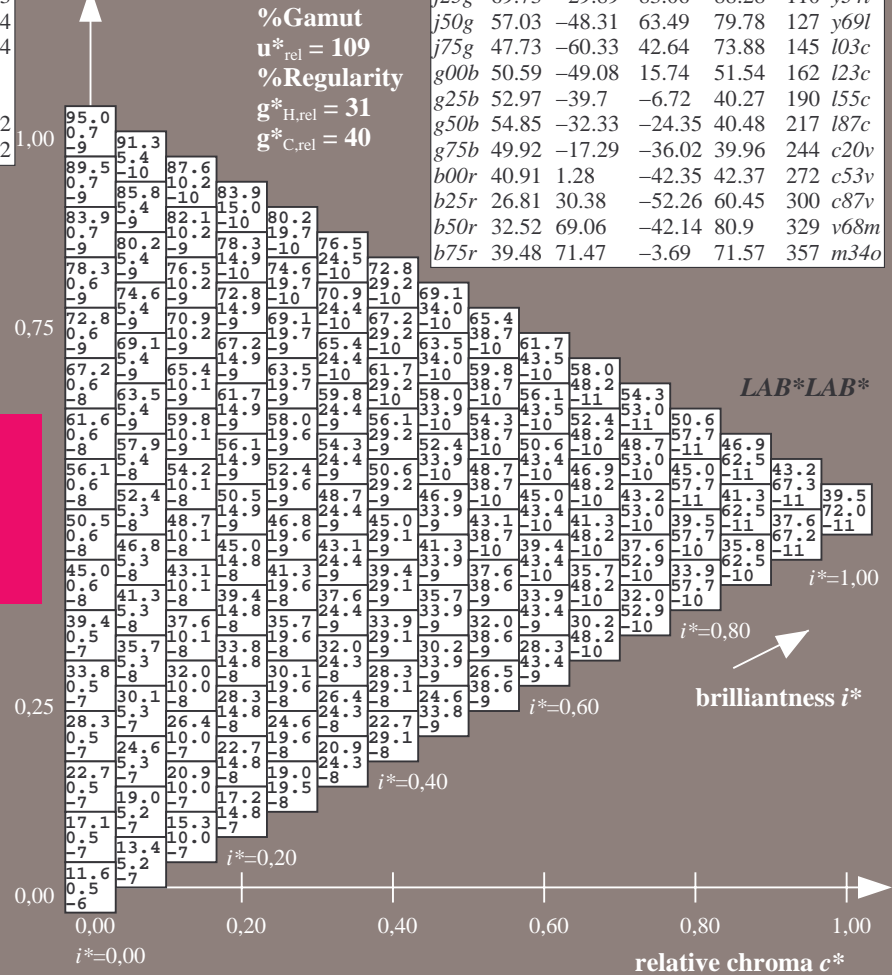
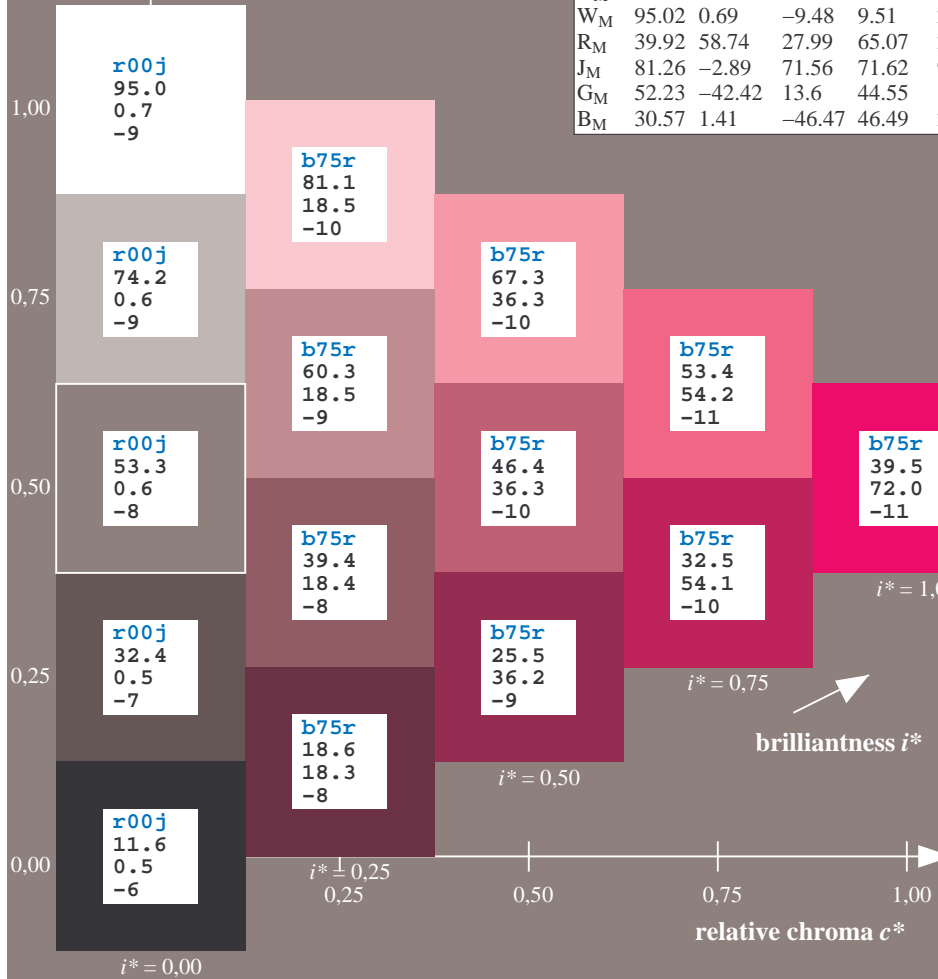
$lab^*rgb^*_{Ma}: 1.0\ 0.0\ 0.5$

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

triangle lightness  $i^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	





	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	b	c	d	e	f	g	h	i	j	k	LAB*LAB*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
01	11.6	16.0	20.5	24.9	29.4	33.8	38.2	42.7	47.1	51.5	55.9	60.3	64.7	69.1	73.5	77.9	82.3	86.7	91.1	95.5	100.0	104.4	108.8	113.2	117.6	122.0	126.4	130.8	135.2	139.6	144.0	148.4	152.8	157.2	161.6	166.0	170.4	174.8	179.2	183.6	188.0	192.4	196.8	201.2	205.6	210.0	214.4	218.8	223.2	227.6	232.0	236.4	240.8	245.2	249.6	254.0	258.4	262.8	267.2	271.6	276.0	280.4	284.8	289.2	293.6	298.0	302.4	306.8	311.2	315.6	320.0	324.4	328.8	333.2	337.6	342.0	346.4	350.8	355.2	359.6	364.0	368.4	372.8	377.2	381.6	386.0	390.4	394.8	399.2	403.6	408.0	412.4	416.8	421.2	425.6	430.0	434.4	438.8	443.2	447.6	452.0	456.4	460.8	465.2	469.6	474.0	478.4	482.8	487.2	491.6	496.0	500.4	504.8	509.2	513.6	518.0	522.4	526.8	531.2	535.6	540.0	544.4	548.8	553.2	557.6	562.0	566.4	570.8	575.2	579.6	584.0	588.4	592.8	597.2	601.6	606.0	610.4	614.8	619.2	623.6	628.0	632.4	636.8	641.2	645.6	650.0	654.4	658.8	663.2	667.6	672.0	676.4	680.8	685.2	689.6	694.0	698.4	702.8	707.2	711.6	716.0	720.4	724.8	729.2	733.6	738.0	742.4	746.8	751.2	755.6	760.0	764.4	768.8	773.2	777.6	782.0	786.4	790.8	795.2	799.6	804.0	808.4	812.8	817.2	821.6	826.0	830.4	834.8	839.2	843.6	848.0	852.4	856.8	861.2	865.6	870.0	874.4	878.8	883.2	887.6	892.0	896.4	900.8	905.2	909.6	914.0	918.4	922.8	927.2	931.6	936.0	940.4	944.8	949.2	953.6	958.0	962.4	966.8	971.2	975.6	980.0	984.4	988.8	993.2	997.6	1002.0	1006.4	1010.8	1015.2	1019.6	1024.0	1028.4	1032.8	1037.2	1041.6	1046.0	1050.4	1054.8	1059.2	1063.6	1068.0	1072.4	1076.8	1081.2	1085.6	1090.0	1094.4	1098.8	1103.2	1107.6	1112.0	1116.4	1120.8	1125.2	1129.6	1134.0	1138.4	1142.8	1147.2	1151.6	1156.0	1160.4	1164.8	1169.2	1173.6	1178.0	1182.4	1186.8	1191.2	1195.6	1200.0	1204.4	1208.8	1213.2	1217.6	1222.0	1226.4	1230.8	1235.2	1239.6	1244.0	1248.4	1252.8	1257.2	1261.6	1266.0	1270.4	1274.8	1279.2	1283.6	1288.0	1292.4	1296.8	1301.2	1305.6	1310.0	1314.4	1318.8	1323.2	1327.6	1332.0	1336.4	1340.8	1345.2	1349.6	1354.0	1358.4	1362.8	1367.2	1371.6	1376.0	1380.4	1384.8	1389.2	1393.6	1398.0	1402.4	1406.8	1411.2	1415.6	1420.0	1424.4	1428.8	1433.2	1437.6	1442.0	1446.4	1450.8	1455.2	1459.6	1464.0	1468.4	1472.8	1477.2	1481.6	1486.0	1490.4	1494.8	1499.2	1503.6	1508.0	1512.4	1516.8	1521.2	1525.6	1530.0	1534.4	1538.8	1543.2	1547.6	1552.0	1556.4	1560.8	1565.2	1569.6	1574.0	1578.4	1582.8	1587.2	1591.6	1596.0	1600.4	1604.8	1609.2	1613.6	1618.0	1622.4	1626.8	1631.2	1635.6	1640.0	1644.4	1648.8	1653.2	1657.6	1662.0	1666.4	1670.8	1675.2	1679.6	1684.0	1688.4	1692.8	1697.2	1701.6	1706.0	1710.4	1714.8	1719.2	1723.6	1728.0	1732.4	1736.8	1741.2	1745.6	1750.0	1754.4	1758.8	1763.2	1767.6	1772.0	1776.4	1780.8	1785.2	1789.6	1794.0	1798.4	1802.8	1807.2	1811.6	1816.0	1820.4	1824.8	1829.2	1833.6	1838.0	1842.4	1846.8	1851.2	1855.6	1860.0	1864.4	1868.8	1873.2	1877.6	1882.0	1886.4	1890.8	1895.2	1899.6	1904.0	1908.4	1912.8	1917.2	1921.6	1926.0	1930.4	1934.8	1939.2	1943.6	1948.0	1952.4	1956.8	1961.2	1965.6	1970.0	1974.4	1978.8	1983.2	1987.6	1992.0	1996.4	2000.8	2005.2	2009.6	2014.0	2018.4	2022.8	2027.2	2031.6	2036.0	2040.4	2044.8	2049.2	2053.6	2058.0	2062.4	2066.8	2071.2	2075.6	2080.0	2084.4	2088.8	2093.2	2097.6	2102.0	2106.4	2110.8	2115.2	2119.6	2124.0	2128.4	2132.8	2137.2	2141.6	2146.0	2150.4	2154.8	2159.2	2163.6	2168.0	2172.4	2176.8	2181.2	2185.6	2190.0	2194.4	2198.8	2203.2	2207.6	2212.0	2216.4	2220.8	2225.2	2229.6	2234.0	2238.4	2242.8	2247.2	2251.6	2256.0	2260.4	2264.8	2269.2	2273.6	2278.0	2282.4	2286.8	2291.2	2295.6	2300.0	2304.4	2308.8	2313.2	2317.6	2322.0	2326.4	2330.8	2335.2	2339.6	2344.0	2348.4	2352.8	2357.2	2361.6	2366.0	2370.4	2374.8	2379.2	2383.6	2388.0	2392.4	2396.8	2401.2	2405.6	2410.0	2414.4	2418.8	2423.2	2427.6	2432.0	2436.4	2440.8	2445.2	2449.6	2454.0	2458.4	2462.8	2467.2	2471.6	2476.0	2480.4	2484.8	2489.2	2493.6	2498.0	2502.4	2506.8	2511.2	2515.6	2520.0	2524.4	2528.8	2533.2	2537.6	2542.0	2546.4	2550.8	2555.2	2559.6	2564.0	2568.4	2572.8	2577.2	2581.6	2586.0	2590.4	2594.8	2599.2	2603.6	2608.0	2612.4	2616.8	2621.2	2625.6	2630.0	2634.4	2638.8	2643.2	2647.6	2652.0	2656.4	2660.8	2665.2	2669.6	2674.0	2678.4	2682.8	2687.2	2691.6	2696.0	2700.4	2704.8	2709.2	2713.6	2718.0	2722.4	2726.8	2731.2	2735.6	2740.0	2744.4	2748.8	2753.2	2757.6	2762.0	2766.4	2770.8	2775.2	2779.6	2784.0	2788.4	2792.8	2797.2	2801.6	2806.0	2810.4	2814.8	2819.2	2823.6	2828.0	2832.4	2836.8	2841.2	2845.6	2850.0	2854.4	2858.8	2863.2	2867.6	2872.0	2876.4	2880.8	2885.2	2889.6	2894.0	2898.4	2902.8	2907.2	2911.6	2916.0	2920.4	2924.8	2929.2	2933.6	2938.0	2942.4	2946.8	2951.2	2955.6	2960.0	2964.4	2968.8	2973.2	2977.6	2982.0	2986.4	2990.8	2995.2	2999.6	3004.0	3008.4	3012.8	3017.2	3021.6	3026.0	3030.4	3034.8	3039.2	3043.6	3048.0	3052.4	3056.8	3061.2	3065.6	3070.0	3074.4	3078.8	3083.2	3087.6	3092.0	3096.4	3100.8	3105.2	3109.6	3114.0	3118.4	3122.8	3127.2	3131.6	3136.0	3140.4	3144.8	3149.2	3153.6	3158.0	3162.4	3166.8	3171.2	3175.6	3180.0	3184.4	3188.8	3193.2	3197.6	3202.0	3206.4	3210.8	3215.2	3219.6	3224.0	3228.4	3232.8	3237.2	3241.6	3246.0	3250.4	3254.8	3259.2	3263.6	3268.0	3272.4	3276.8	3281.2	3285.6	3290.0	3294.4	3298.8	3303.2	3307.6	3312.0	3316.4	3320.8	3325.2	3329.6	3334.0	3338.4	3342.8	3347.2	3351.6	3356.0	3360.4	3364.8	3369.2	3373.6	3378.0	3382.4	3386.8	3391.2	3395.6	3400.0	3404.4	3408.8	3413.2	3417.6	3422.0	3426.4	3430.8	3435.2	3439.6	3444.0	3448.4	3452.8	3457.2	3461.6	3466.0	3470.4	3474.8	3479.2	3483.6	3488.0	3492.4	3496.8	3501.2	3505.6	3510.0	3514.4	3518.8	3523.2	3527.6	3532.0	3536.4	3540.8	3545.2	3549.6	3554.0	3558.4	3562.8	3567.2	3571.6	3576.0	3580.4	3584.8	3589.2	3593.6	3598.0	3602.4	3606.8	3611.2	3615.6	3620.0	3624.4	3628.8	3633.2	3637.6	3642.0	3646.4	3650.8	3655.2	3659.6	3664.0	3668.4	3672.8	3677.2	3681.6	3686.0	3690.4	3694.8	3699.2	3703.6	3708.0	3712.4	3716.8	3721.2	3725.6	3730.0	3734.4	3738.8	3743.2	3747.6	3752.0	3756.4	3760.8	3765.2	3769.6	3774.0	3778.4	3782.8	3787.2	3791.6	3796.0	3800.4	3804.8	3809.2	3813.6	3818.0	3822.4	3826.8	3831.2	3835.6	3840.0	3844.4	3848.8	3853.2	3857.6	3862.0	3866.4	3870.8	3875.2	3879.6	3884.0	3888.4	3892.8	3897.2	3901.6	3906.0	3910.4	3914.8	3919.2	3923.6	3928.0	3932.4	3936.8	3941.2	3945.6	3950.0	3954.4	3958.8	3963.2	3967.6	3972.0	3976.4	3980.8	3985.2	3989.6	3994.0	3998.4	4002.8	4007.2	4011.6	4016.0	4020.4	4024.8	4029.2	4033.6	4038.0	4042.4	4046.8	4051.2	4055.6	4060.0	4064.4	4068.8	4073.2	4077.6	4082.0	4086.4	4090.8	4095.2	4099.6	4104.0	4108.4	4112.8	4117.2	4121.6	4126.0	4130.4	4134.8	4139.2	4143.6	4148.0	4152.4	4156.8	4161.2	4165.6	4170.0	4174.4	4178.8	4183.2	4187.6	4192.0	4196.4	4200.8	4205.2	4209.6	4214.0	4218.4	4222.8	4227.2	4231.6	4236.0	4240.4	4244.8	4249.2	4253.6	4258.0	4262.4	4266.8	4271.2	4275.6	4280.0	4284.4	4288.8	4293.2	4297.6	4302.0	4306.4	4310.8	4315.2	4319.6	4324.0	4328.4	4332.8	4337.2	4341.6	4346.0	4350.4	4354.8	4359.2	4363.6	4368.0	4372.4	4376.8	4381.2	4385.6	4390.0	4394.4	4398.8	4403.2	4407.6	4412.0	4416.4	4420.8	4425.2	4429.6	4434.0	4438.4	4442.8	4447.2	4451.6	4456.0	4460.4	4464.8	4469.2	4473.6	4478.0	4482.4	4486.8	4491.2	4495.6	4500.0	4504.4	4508.8	4513.2	4517.6	4522.0	4526.4	4530.8	4535.2	4539.6	4544.0	4548.4	4552.8	4557.2	4561.6	4566.0	4570.4	4574.8	4579.2	4583.6	4588.0	4592.4	4596.8	4601.2	4605.6	4610.0	4614.4	4618.8	4623.2	4627.6	4632.0	4636.4	4640.8	4645.2	4649.6	4654.0	4658.4	4662.8	4667.2	4671.6	4676.0	4680.4	4684.8	4689.2	4693.6	4698.0	4702.4	4706.8	4711.2	4715.6	4720.0	4724.4	4728.8	4733.2	4737.6	4742.0	4746.4	4750.8	4755.2	4759.6	4764.0	4768.4	4772.8	4777.2	4781.6	4786.0	4790.4	4794.8	4799.2	4803.6	4808.0	4812.4	4816.8	4821.2	4825.6	4830.0	4834.4	4838.8	4843.2	4847.6	4852.0	4856.4	4860.8	4865.2	4869.6	4874.0	4878.4	4882.8	4887.2	4891.6	4896.0	4900.4	4904.8	4909.2	4913.6	4918.0	4922.4	4926.8	4931.2	4935.6	4940.0	4944.4	4948.8	4953.2

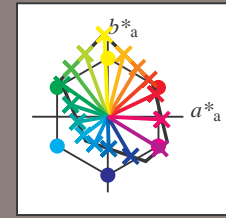


Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15  
 elementary hue text:  
 $u^*_e = 16$  hues *r00j, r25j, ..., b75r*  
 contrast reduction factor:  
 $c_R = 1.0$

**FRS12\_95a; adapted (a) CIELAB data**

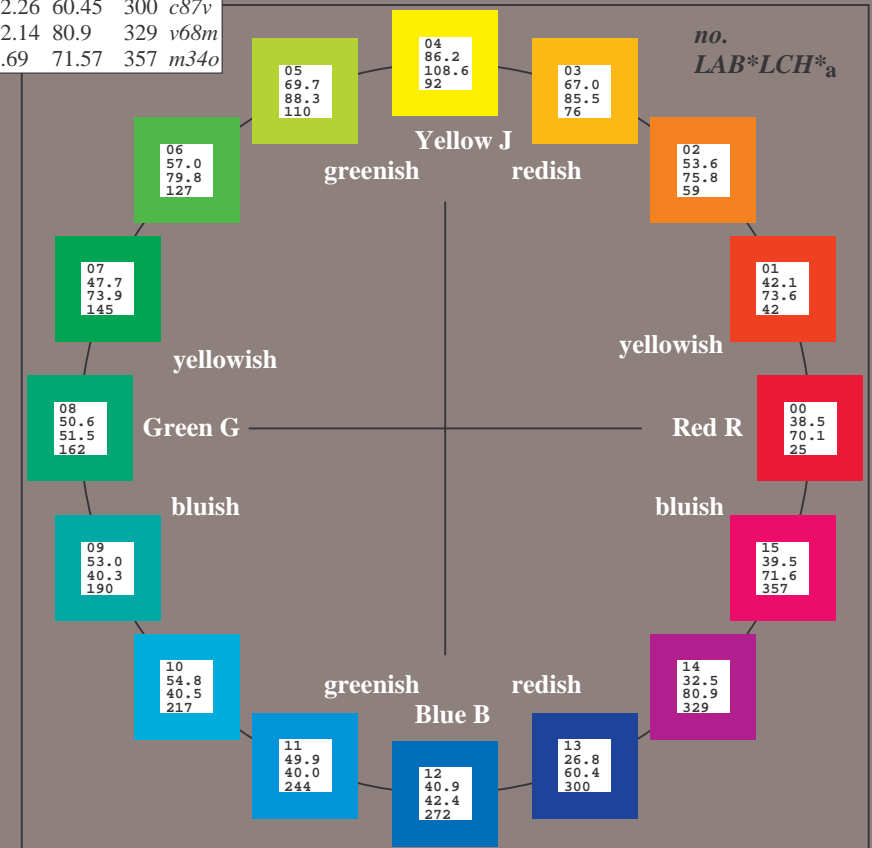
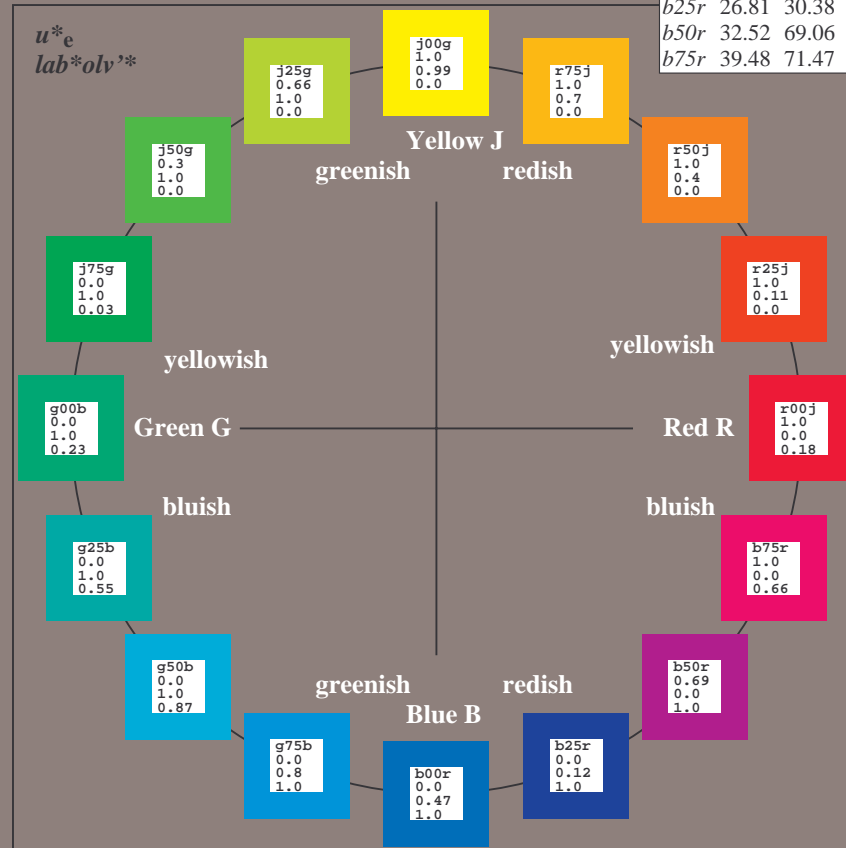
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

**FRS12\_95a; CIELAB data**

Name	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$   
 $lab^*olv^*$

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

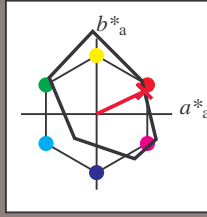
Hue texts:

$u^*_e = r00j$     $u^*_d = m81o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 38 \ 63 \ 30$

$LAB^*LCH^*_{Ma}: 38 \ 70 \ 25$

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

$lab^*olv^*_{Ma}: 1.0 \ 0.0 \ 0.18$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25		m81o
r25j	42.12	54.56	49.45	73.64	42		o10y
r50j	53.64	39.15	64.89	75.79	59		o40y
r75j	67.01	21.26	82.83	85.52	76		o69y
j00g	86.18	-4.38	108.53	108.62	92		o98y
j25g	69.73	-29.89	83.06	88.28	110		y34l
j50g	57.03	-48.31	63.49	79.78	127		y69l
j75g	47.73	-60.33	42.64	73.88	145		103c
g00b	50.59	-49.08	15.74	51.54	162		l23c
g25b	52.97	-39.7	-6.72	40.27	190		l55c
g50b	54.85	-32.33	-24.35	40.48	217		l87c
g75b	49.92	-17.29	-36.02	39.96	244		c20v
b00r	40.91	1.28	-42.35	42.37	272		c53v
b25r	26.81	30.38	-52.26	60.45	300		c87v
b50r	32.52	69.06	-42.14	80.9	329		v68m
b75r	39.48	71.47	-3.69	71.57	357		m34o

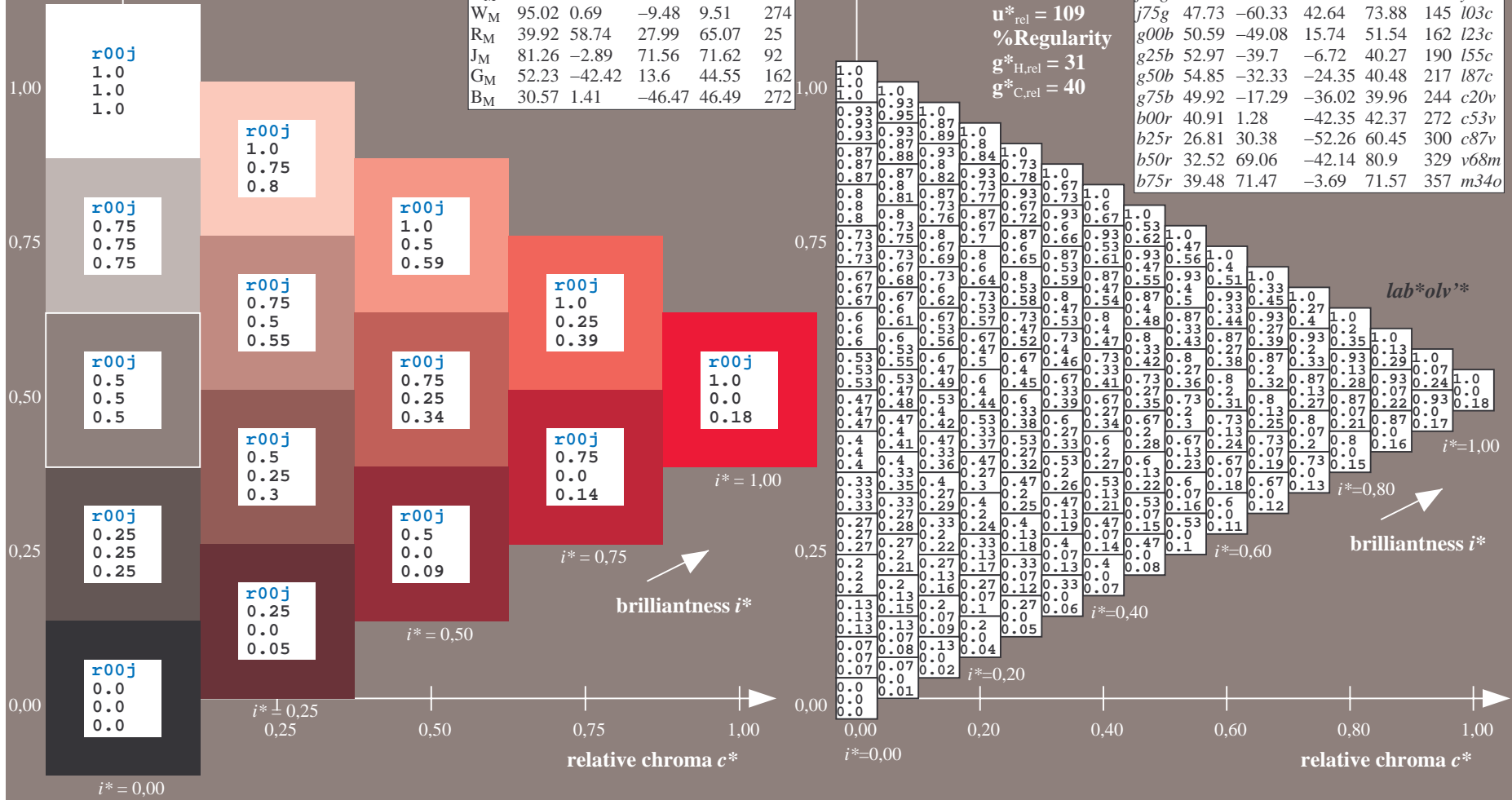
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$   
 data for any colour:

$u^*_e = r25j$   
 $lab^*olv^*$

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

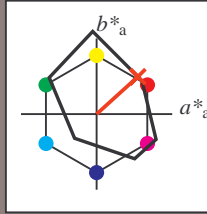
Hue texts:

$u^*_e = r25j$   $u^*_d = o10y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 42\ 55\ 49$

$LAB^*LCH^*_{Ma}: 42\ 74\ 42$

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

$lab^*olv^*_{Ma}: 1.0\ 0.11\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	162	103c
g00b	50.59	-49.08	15.74	51.54	162	123c	
g25b	52.97	-39.7	-6.72	40.27	190	155c	
g50b	54.85	-32.33	-24.35	40.48	217	187c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

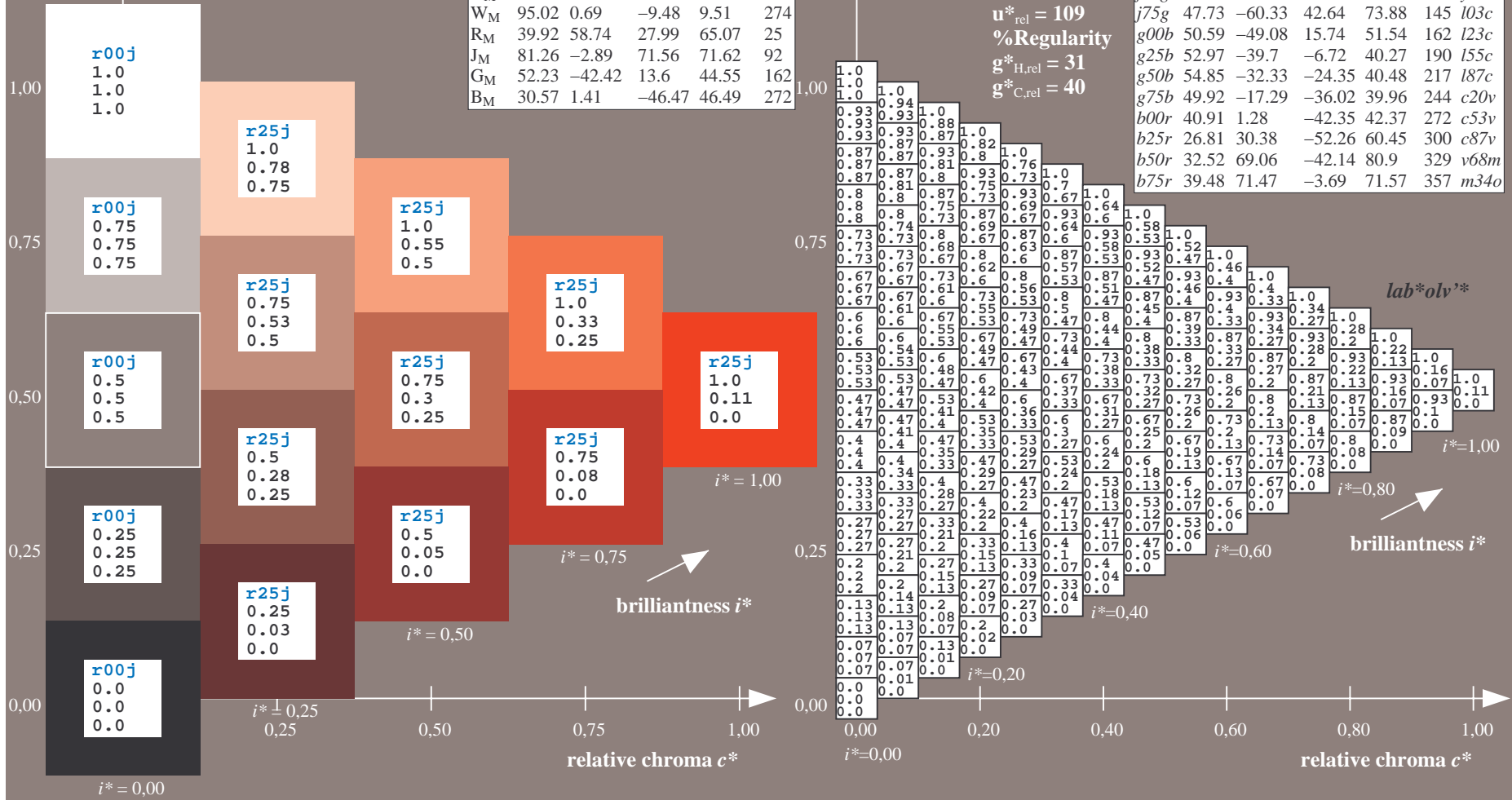
%Gamut

$u^*_{rel} = 109$

%Regularity

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

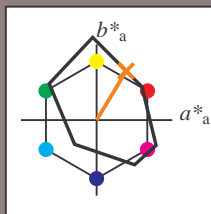
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$

$u^*_e = r50j$   
 $lab^*olv^*$

data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$   
Hue texts:  
 $u^*_e = r50j$   $u^*_d = o40y$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

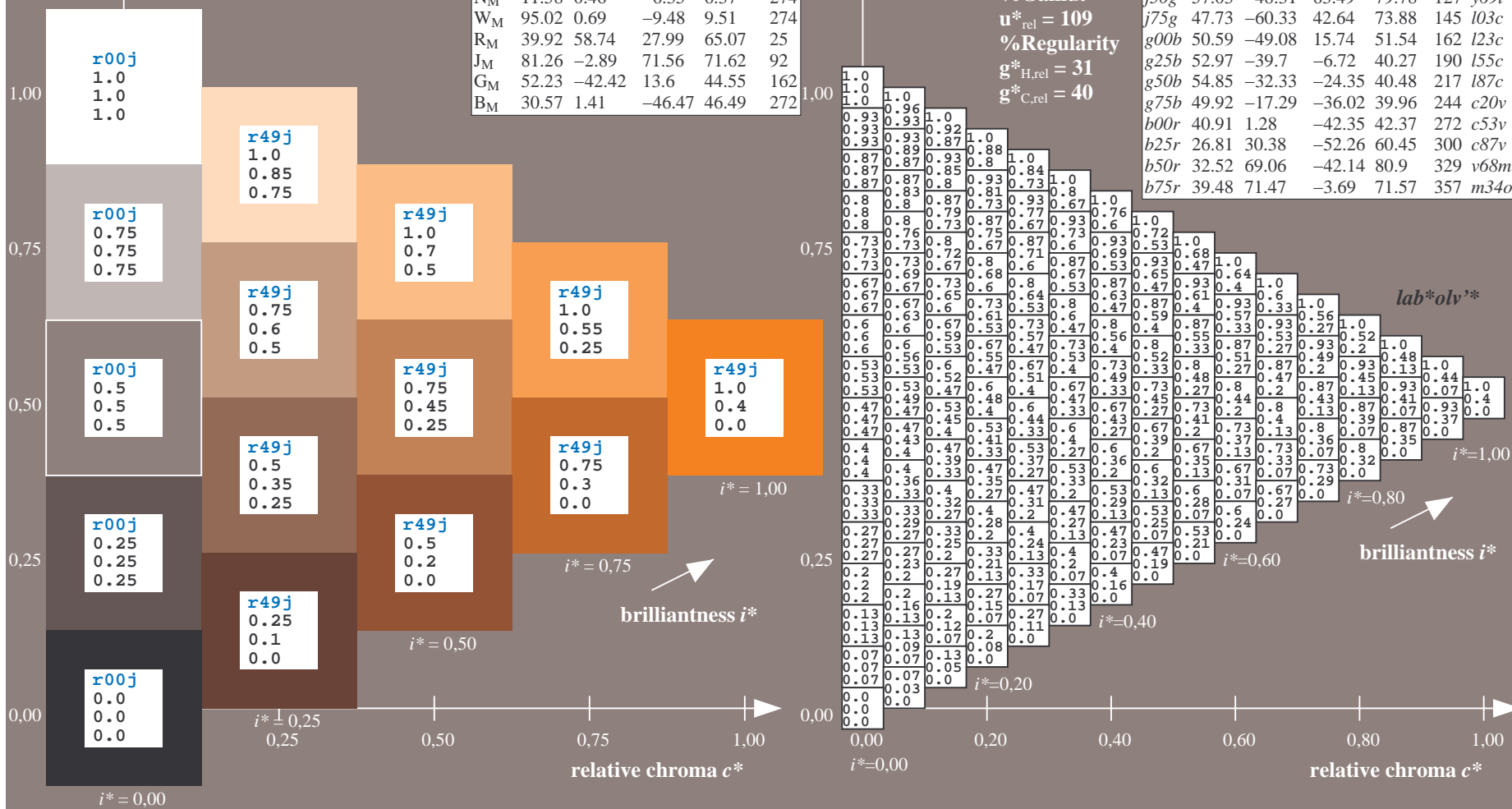
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 54\ 39\ 65$   
 $LAB^*LCH^*_{Ma}: 54\ 76\ 58$   
 $lab^*rgb^*_{Ma}: 1.0\ 0.5\ 0.0$   
 $lab^*olv^*_{Ma}: 1.0\ 0.4\ 0.0$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	123c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

triangle lightness  $t^*$   
%Gamut  
 $u^*_{rel} = 109$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$

$u^*_e = r75j$

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

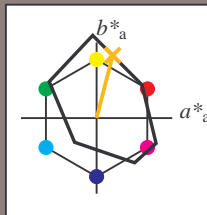
Hue texts:

$u^*_e = r75j$   $u^*_d = o69y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 67\ 21\ 83$

$LAB^*LCH^*_{Ma}: 67\ 86\ 75$

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

$lab^*olv^*_{Ma}: 1.0\ 0.7\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	162	l03c
g00b	50.59	-49.08	15.74	51.54	162	123c	
g25b	52.97	-39.7	-6.72	40.27	190	155c	
g50b	54.85	-32.33	-24.35	40.48	217	187c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

$lab^*olv^*$

$i^* = 1.00$

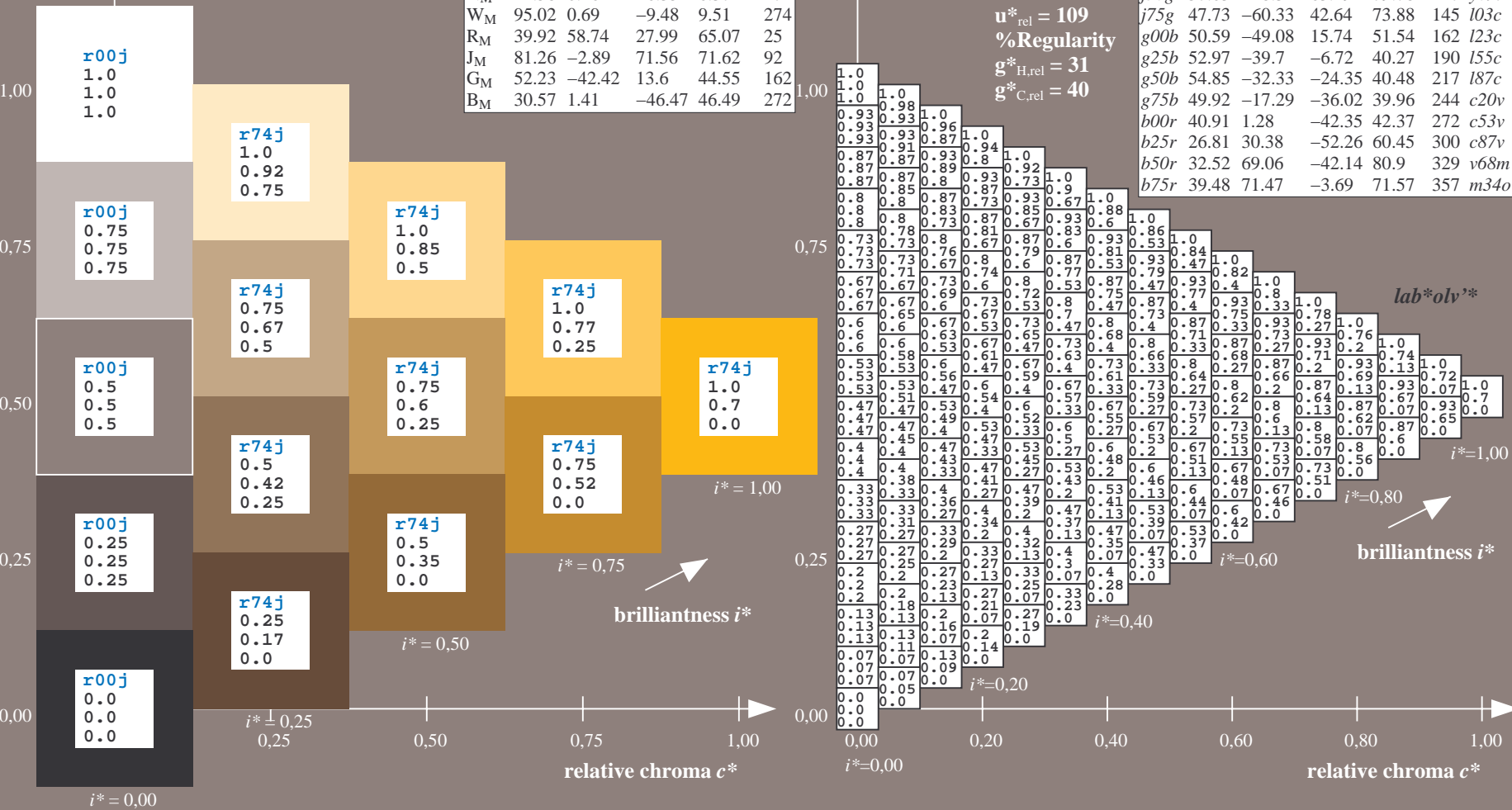
$i^* = 0.80$

$i^* = 0.60$

$i^* = 0.40$

$i^* = 0.20$

$i^* = 0.00$

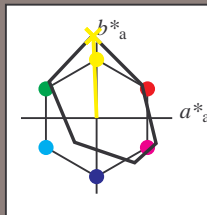




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$

$u^*_e = j00g$   
 $lab^*olv^*$

data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$   
Hue texts:  
 $u^*_e = j00g$   $u^*_d = o98y$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

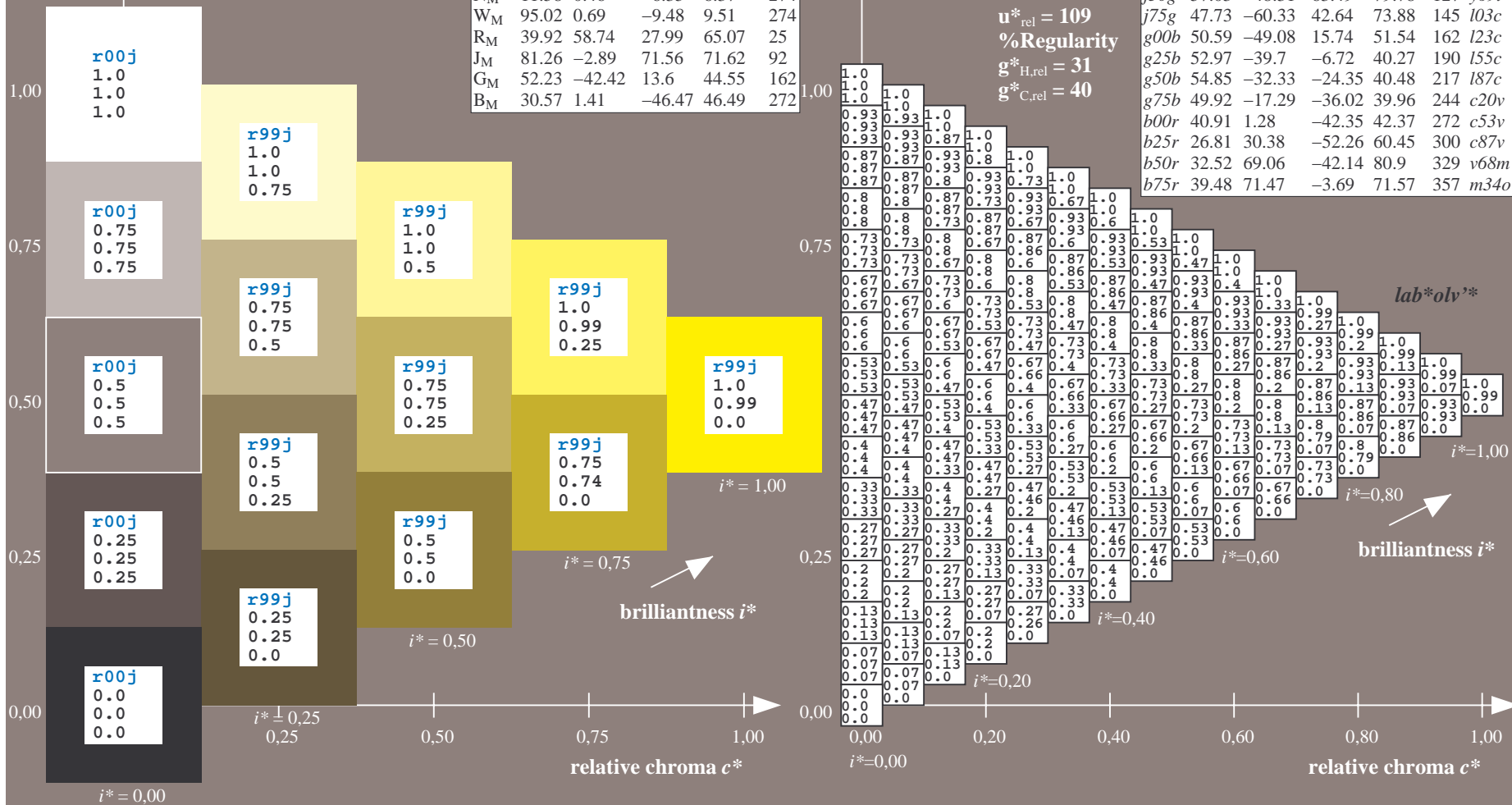
	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 86 -4 109$   
 $LAB^*LCH^*_{Ma}: 86 109 92$   
 $lab^*rgb^*_{Ma}: 1.0 1.0 0.0$   
 $lab^*olv^*_{Ma}: 1.0 0.99 0.0$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $lab^*olv^*$

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

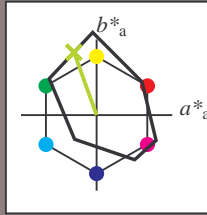
Hue texts:

$u^*_e = j25g$   $u^*_d = y34l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; CIELAB data						
$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$	
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

$LAB^*LCH^*_{Ma}: 70 88 109$

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

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

triangle lightness  $t^*$

FRS12_95a; adapted (a) CIELAB data							
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l23c	
g00b	50.59	-49.08	15.74	51.54	162	l03c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

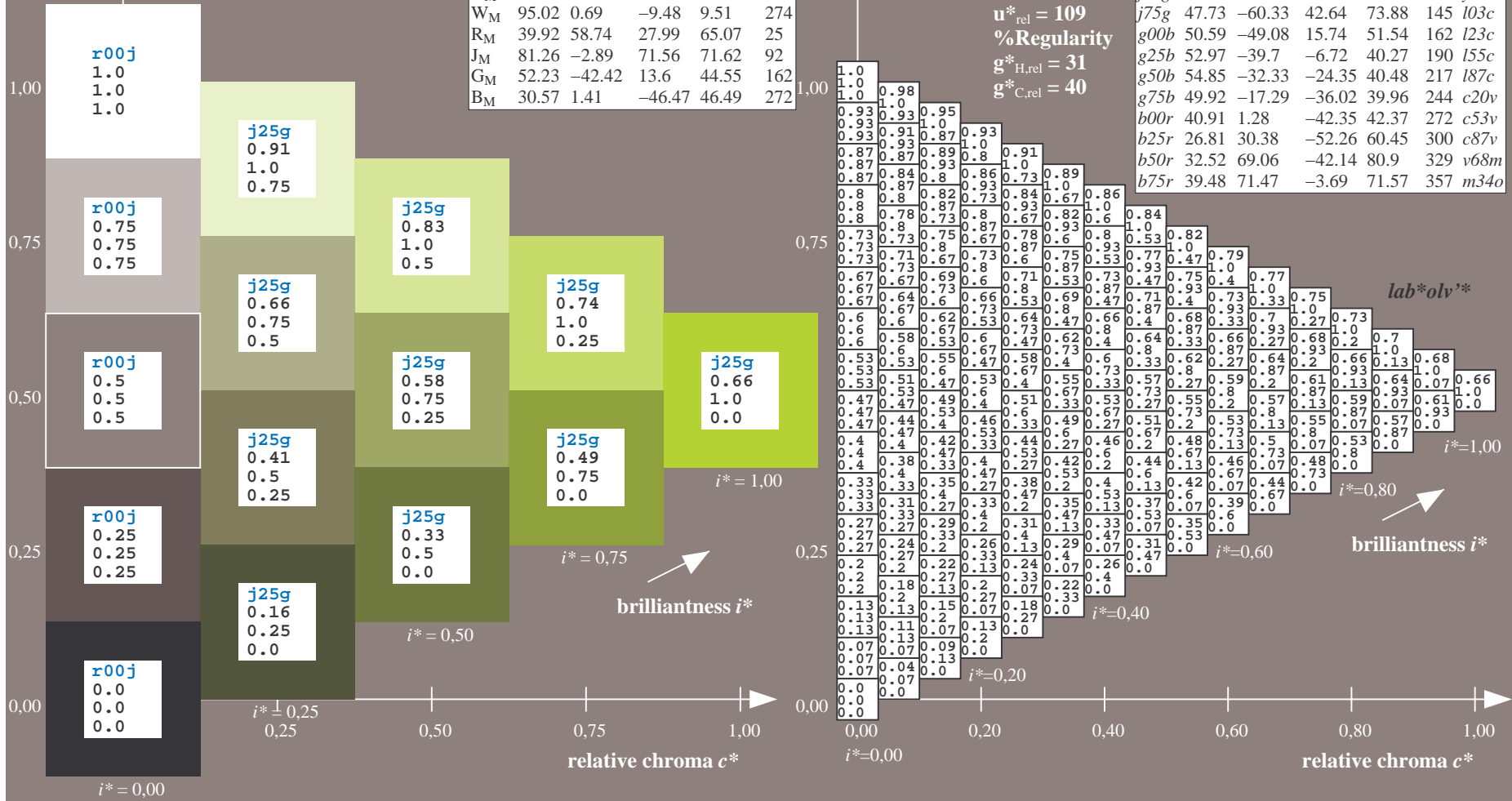
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$

$u^*_e = j50g$

$lab^*olv^*$

data for any colour:

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

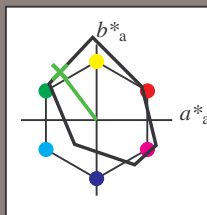
Hue texts:

$u^*_e = j50g$   $u^*_d = y69l$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; CIELAB data

$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>M</sub>	39.92	58.74	27.99	65.07	25
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

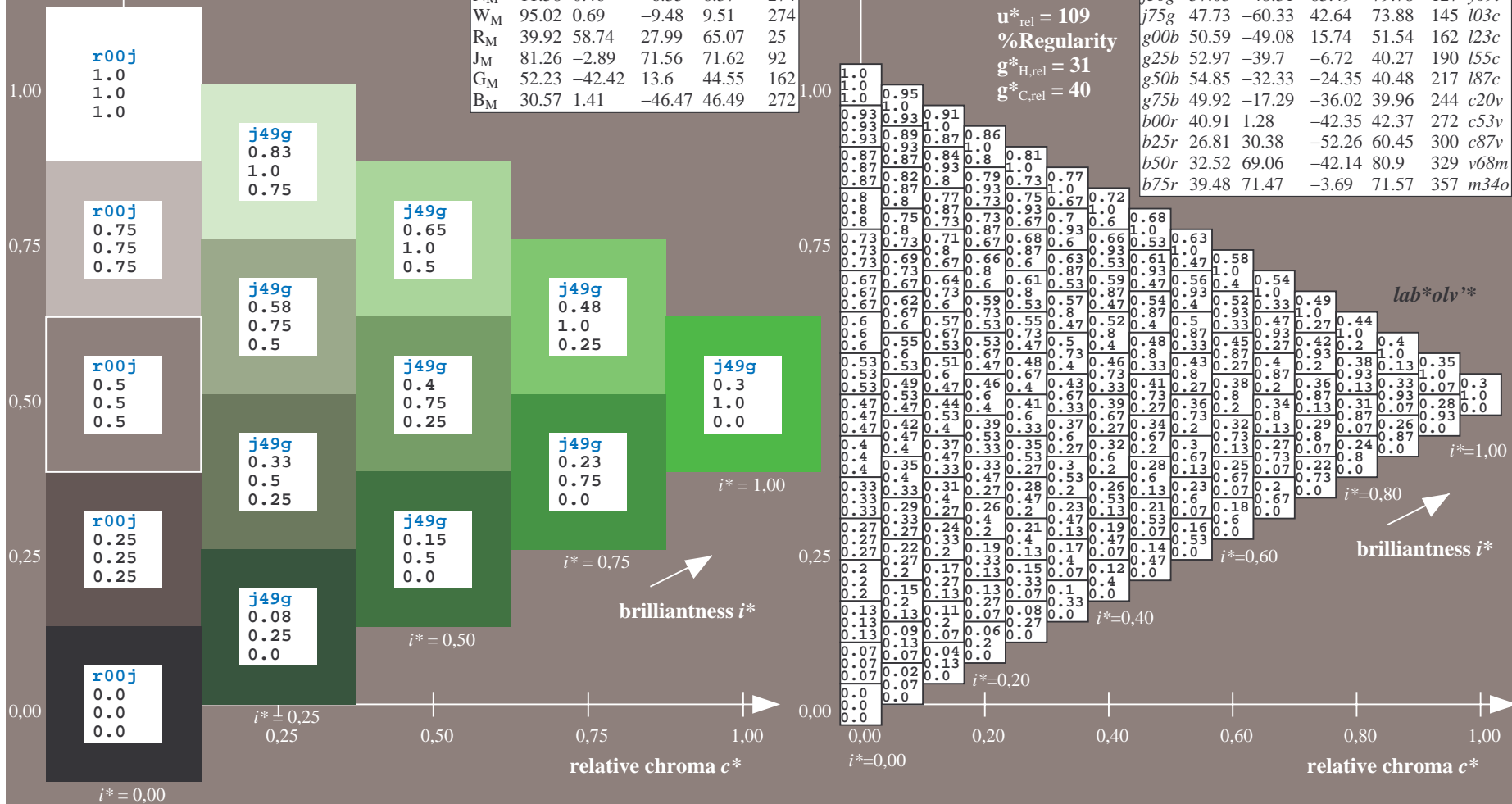
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$

$u^*_e = j75g$

$lab^*olv^*$

data for any colour:

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

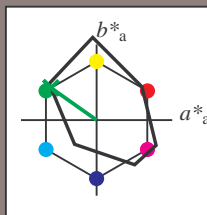
Hue texts:

$u^*_e = j75g$   $u^*_d = l03c$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 48 -60 43$

$LAB^*LCH^*_{Ma}: 48 74 144$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.03$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

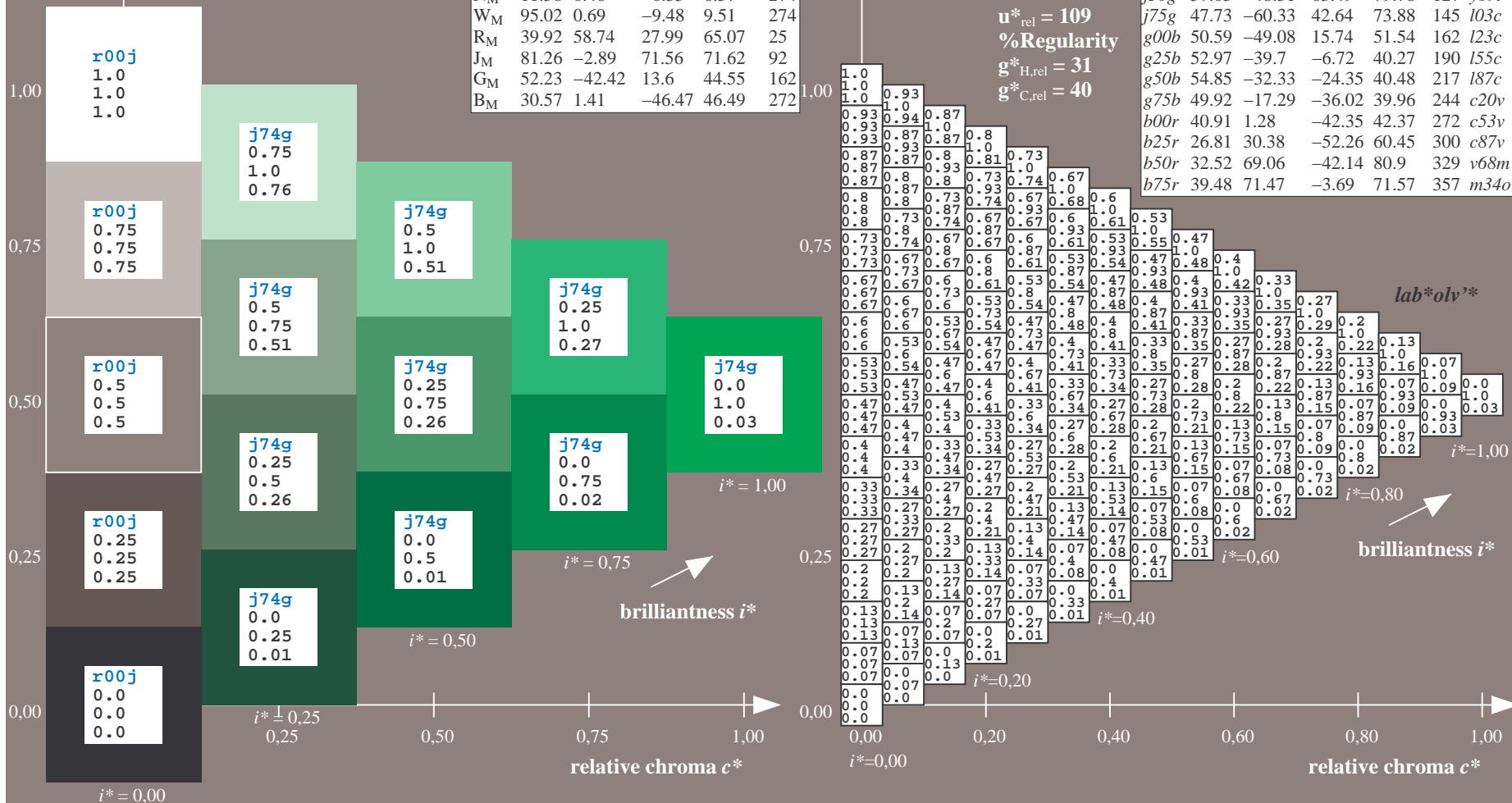
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



$lab^*olv^*$

$i^* = 1.00$

$i^* = 0.80$

brilliantness  $i^*$

$i^* = 0.60$

$i^* = 0.40$

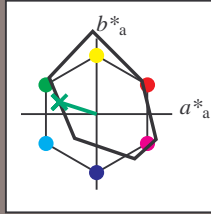
$i^* = 0.20$

$i^* = 0.00$

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g00b$   $u^*_d = l23c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
$O_M$	38.06	60.53	36.66	70.77	31	
$Y_M$	86.77	-4.5	100.15	100.25	93	
$L_M$	47.13	-62.11	40.56	74.18	147	
$C_M$	55.66	-28.56	-39.99	49.14	234	
$V_M$	17.15	50.78	-65.6	82.96	308	
$M_M$	40.37	79.18	-40.93	89.13	333	
$N_M$	11.58	0.46	-6.35	6.37	274	
$W_M$	95.02	0.69	-9.48	9.51	274	
$R_M$	39.92	58.74	27.99	65.07	25	
$J_M$	81.26	-2.89	71.56	71.62	92	
$G_M$	52.23	-42.42	13.6	44.55	162	
$B_M$	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 51 -49 16$

$LAB^*LCH^*_Ma: 51 52 162$

$lab^*rgb^*_Ma: 0.0 1.0 0.0$

$lab^*olv^*_Ma: 0.0 1.0 0.23$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
$r00j$	38.47	63.32	30.17	70.15	25	$m81o$	
$r25j$	42.12	54.56	49.45	73.64	42	$o10y$	
$r50j$	53.64	39.15	64.89	75.79	59	$o40y$	
$r75j$	67.01	21.26	82.83	85.52	76	$o69y$	
$j00g$	86.18	-4.38	108.53	108.62	92	$o98y$	
$j25g$	69.73	-29.89	83.06	88.28	110	$y34l$	
$j50g$	57.03	-48.31	63.49	79.78	127	$y69l$	
$j75g$	47.73	-60.33	42.64	73.88	145	$l03c$	
$g00b$	50.59	-49.08	15.74	51.54	162	$l23c$	
$g25b$	52.97	-39.7	-6.72	40.27	190	$l55c$	
$g50b$	54.85	-32.33	-24.35	40.48	217	$l87c$	
$g75b$	49.92	-17.29	-36.02	39.96	244	$c20v$	
$b00r$	40.91	1.28	-42.35	42.37	272	$c53v$	
$b25r$	26.81	30.38	-52.26	60.45	300	$c87v$	
$b50r$	32.52	69.06	-42.14	80.9	329	$v68m$	
$b75r$	39.48	71.47	-3.69	71.57	357	$m34o$	

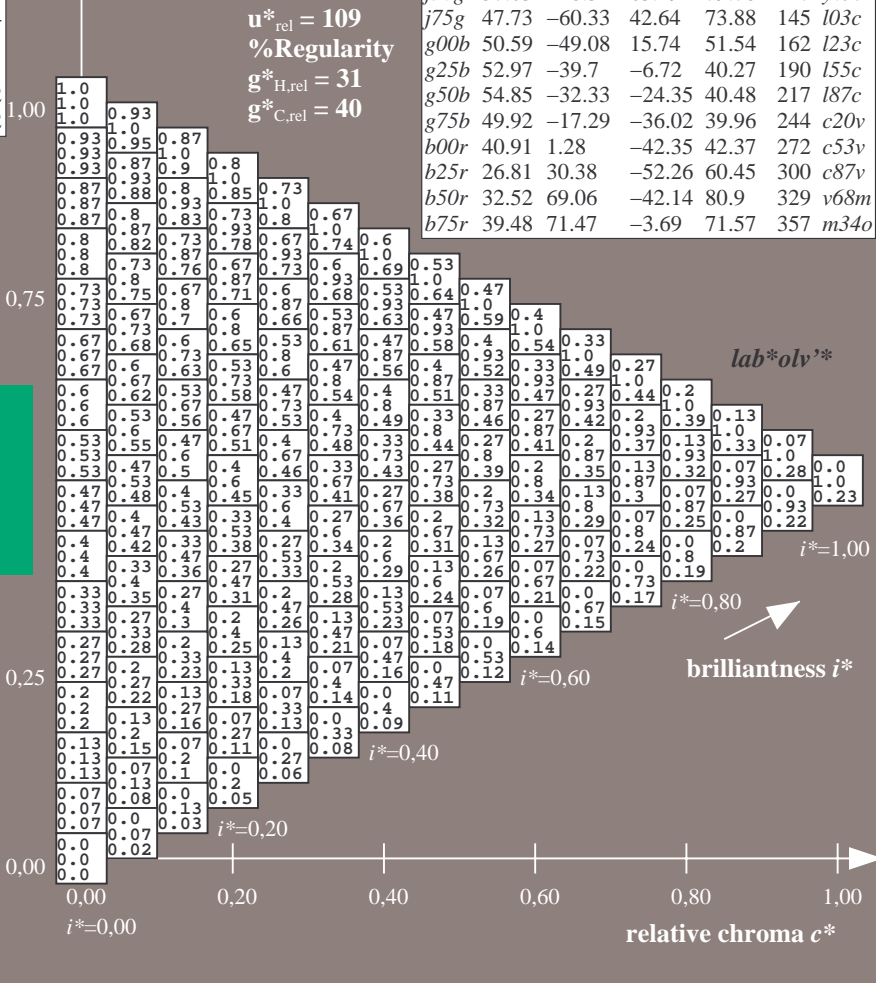
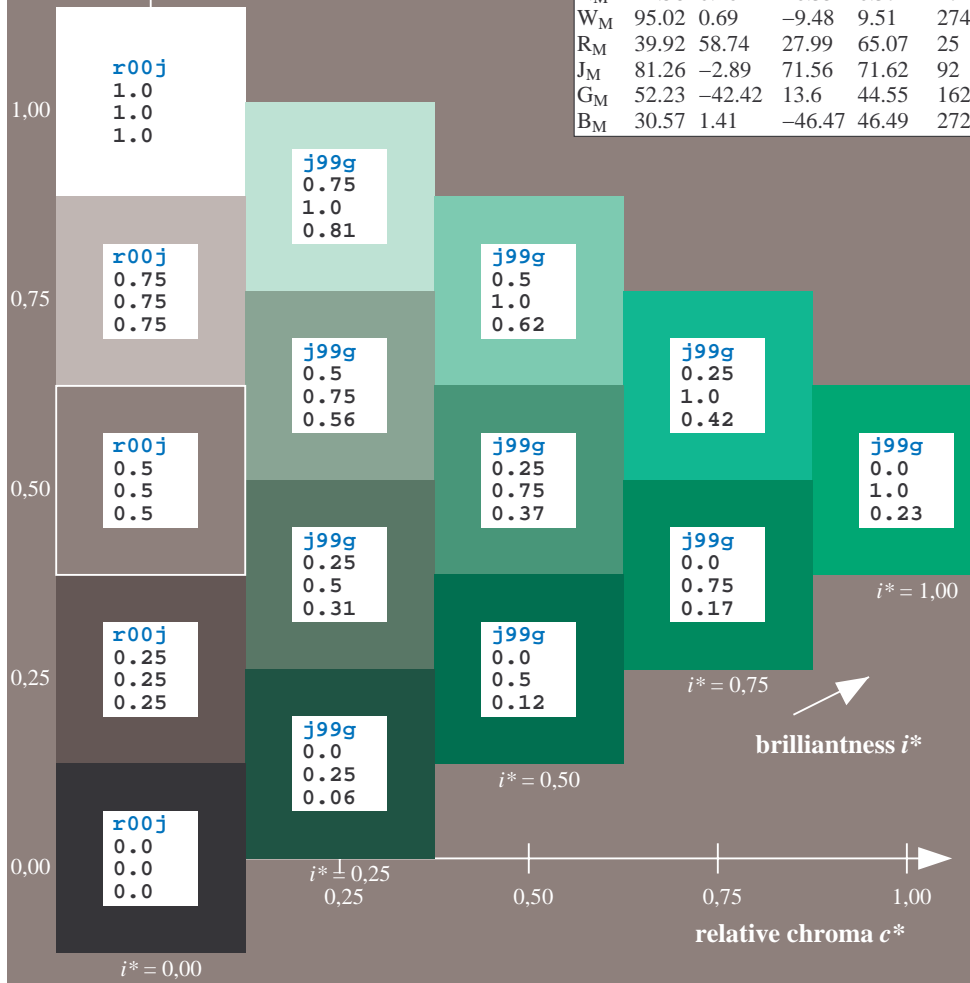
%Gamut

$u^*_{rel} = 109$

%Regularity

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

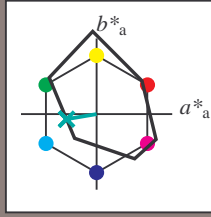
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g25b$   $u^*_d = l55c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; CIELAB data

$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>M</sub>	39.92	58.74	27.99	65.07	25
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

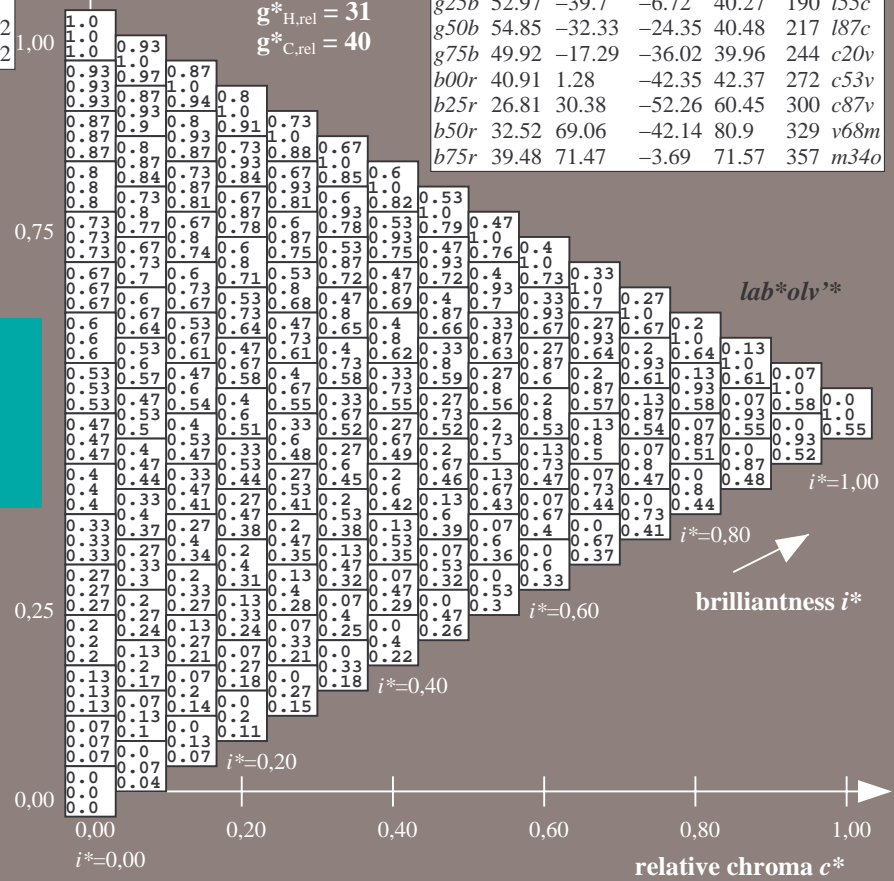
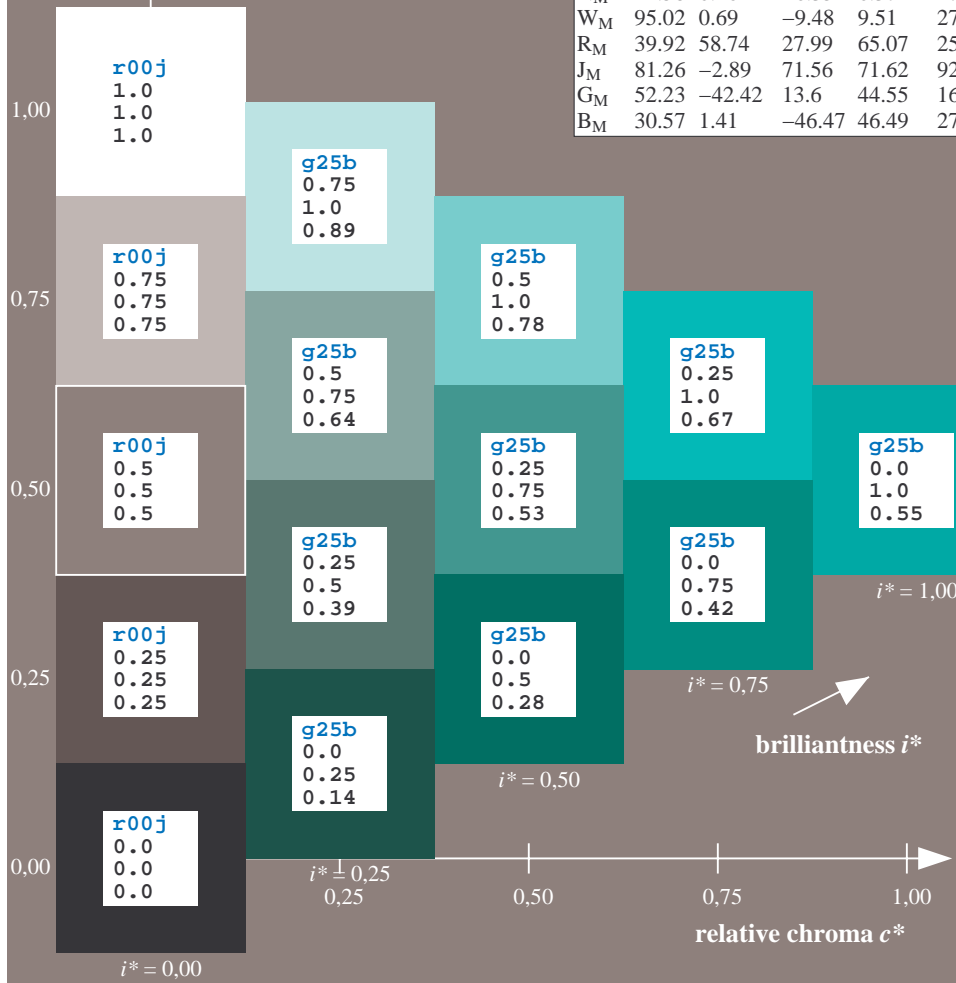
% Gamut

$u^*_{rel} = 109$

% Regularity

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

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

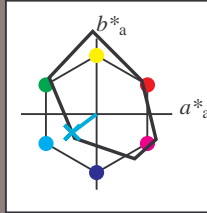




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $lab^*olv^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g50b$   $u^*_d = l87c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>M</sub>	39.92	58.74	27.99	65.07	25
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$

$LAB^*LCH^*_{Ma}: 55 40 216$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.87$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

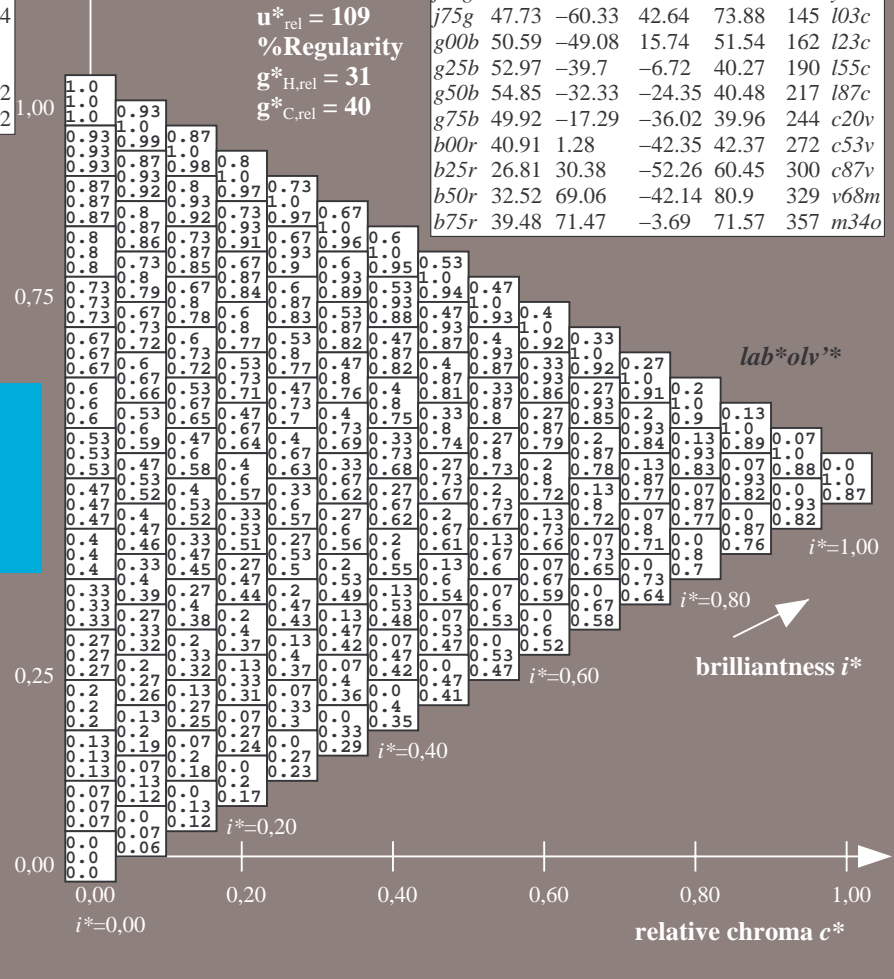
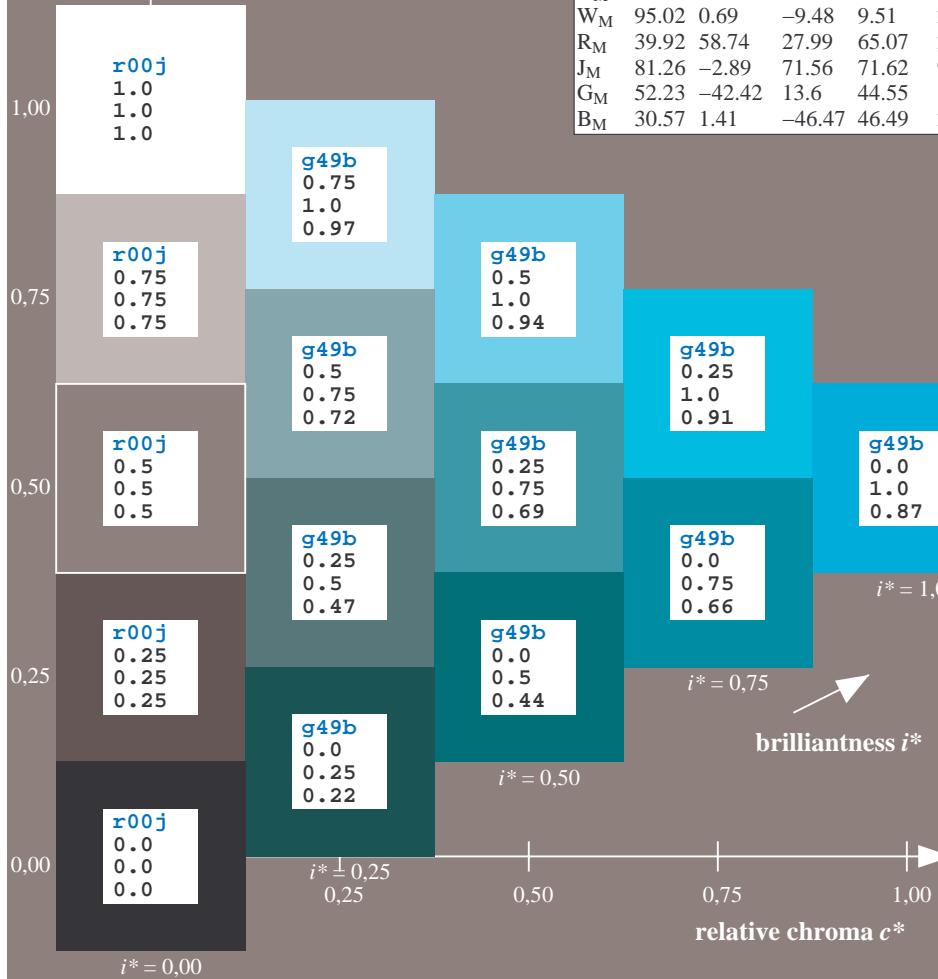
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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





Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $lab^*olv^*$

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

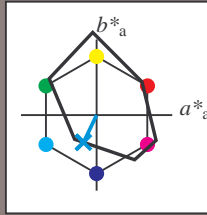
Hue texts:

$u^*_e = g75b$   $u^*_d = c20v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; CIELAB data

$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>M</sub>	39.92	58.74	27.99	65.07	25
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 50 -17 -36$

$LAB^*LCH^*_{Ma}: 50 40 244$

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

$lab^*olv^*_{Ma}: 0.0 0.8 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

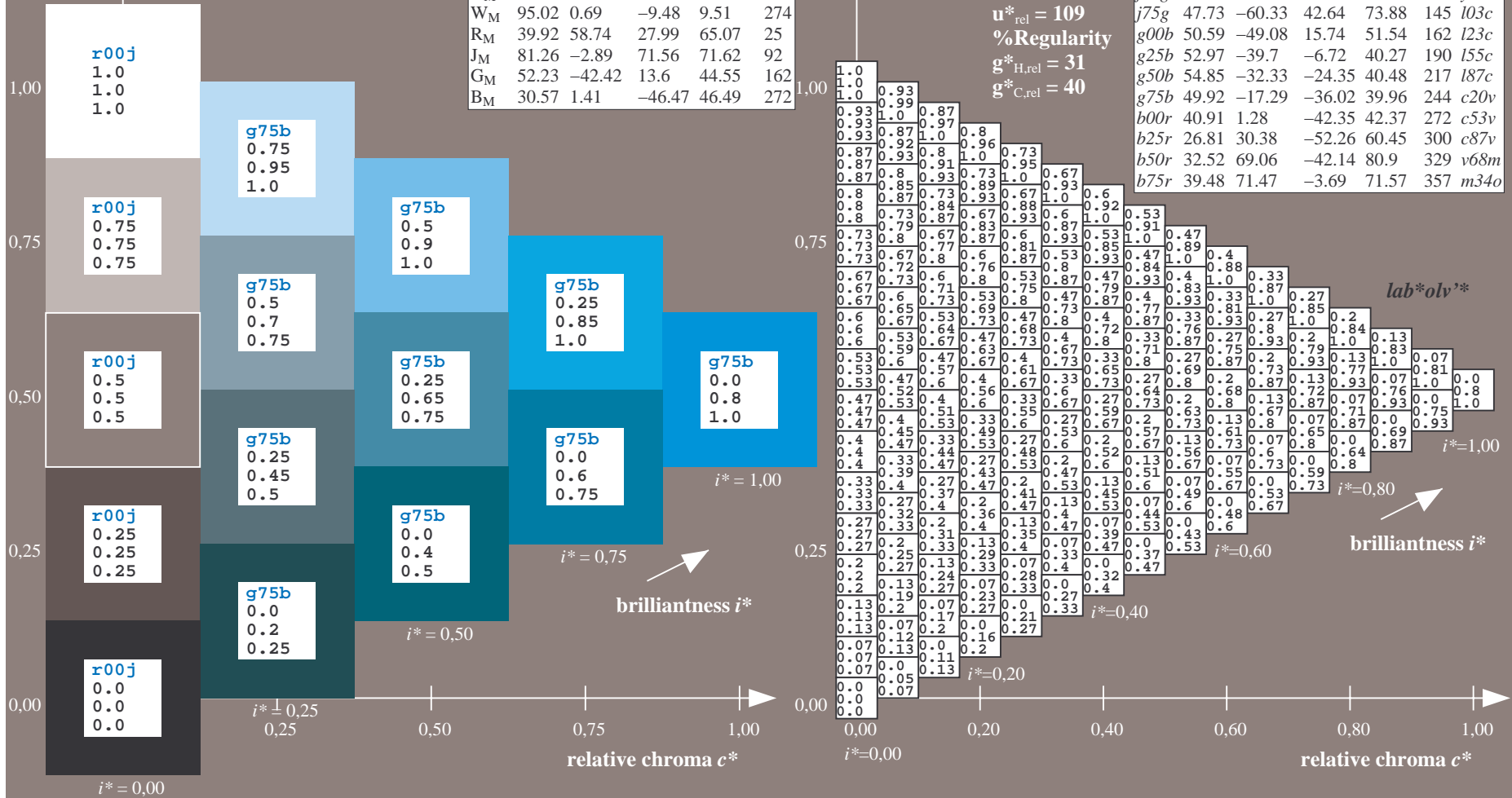
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$   
 $lab^*olv^*$

data for any colour:

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

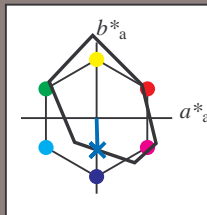
Hue texts:

$u^*_e = b00r$   $u^*_d = c53v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 41 \ 1 \ -42$

$LAB^*LCH^*_{Ma}: 41 \ 42 \ 271$

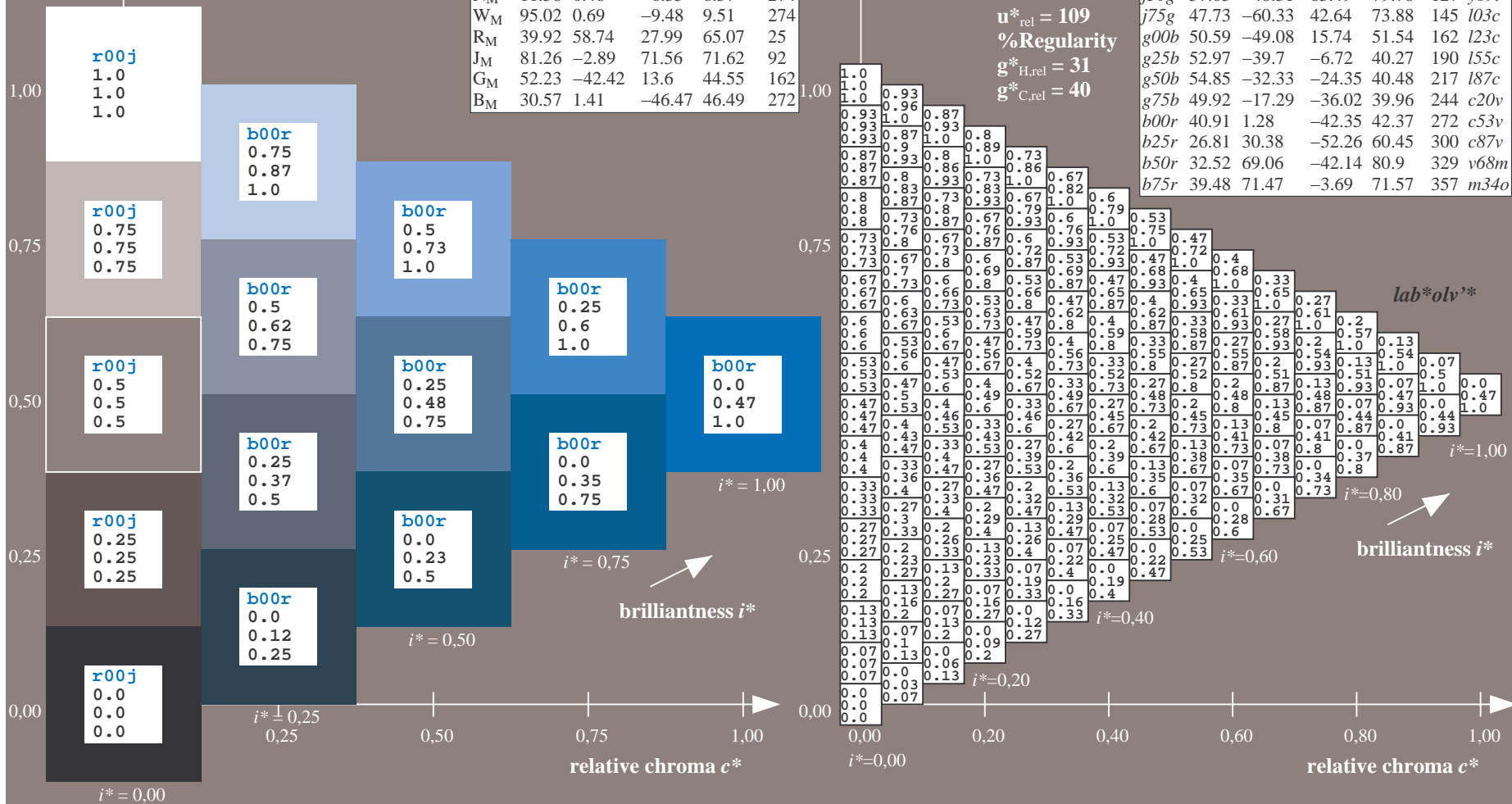
$lab^*rgb^*_{Ma}: 0.0 \ 0.0 \ 1.0$

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

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	162 i03c	
g00b	50.59	-49.08	15.74	51.54	162	123c	
g25b	52.97	-39.7	-6.72	40.27	190	155c	
g50b	54.85	-32.33	-24.35	40.48	217	187c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$   
 $lab^*olv^*$

data for any colour:

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

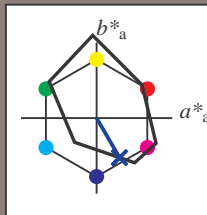
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 27\ 30\ -52$

$LAB^*LCH^*_{Ma}: 27\ 60\ 300$

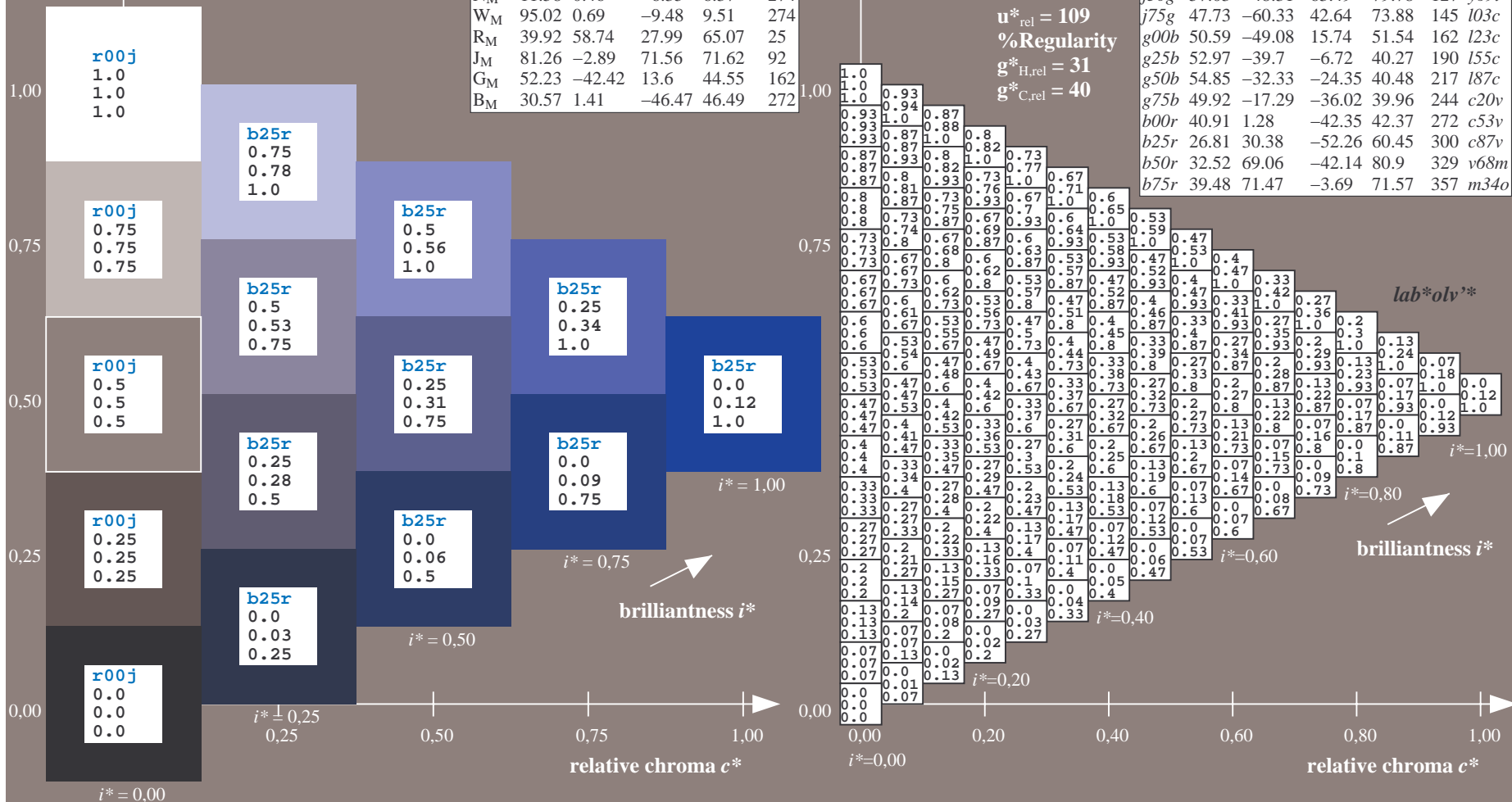
$lab^*rgb^*_{Ma}: 0.5\ 0.0\ 1.0$

$lab^*olv^*_{Ma}: 0.0\ 0.12\ 1.0$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	103c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$

$u^*_e = b50r$   
 $lab^*olv^*$

data for any colour:

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

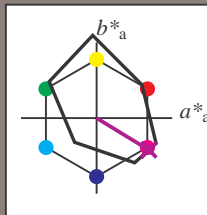
Hue texts:

$u^*_e = b50r$   $u^*_d = v68m$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; CIELAB data

$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>M</sub>	39.92	58.74	27.99	65.07	25
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 33\ 69\ -42$

$LAB^*LCH^*_{Ma}: 33\ 81\ 328$

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

$lab^*olv^*_{Ma}: 0.69\ 0.0\ 1.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	103c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o

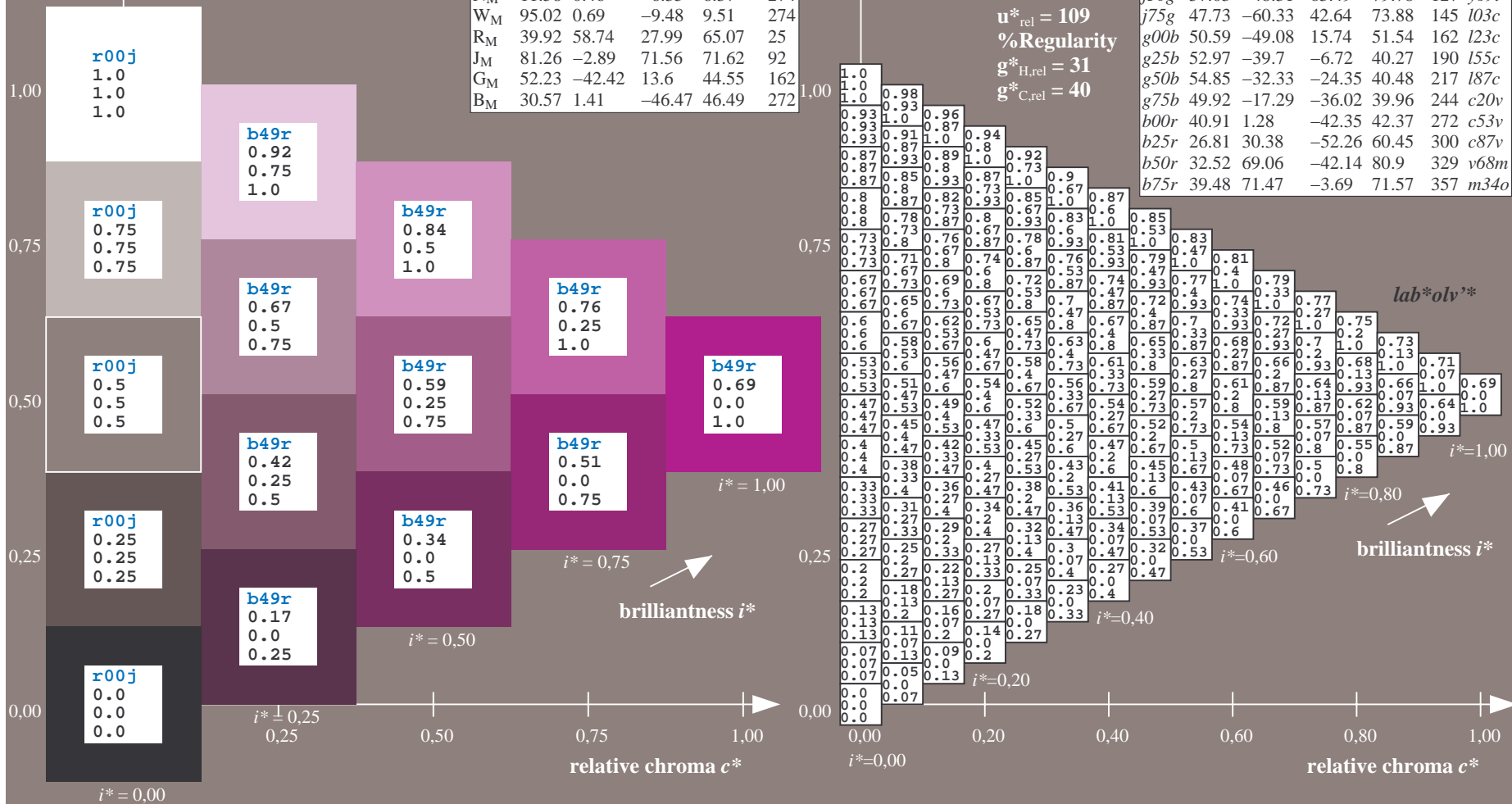
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$

$u^*_e = b75r$

data for any colour:

$lab^*ch^*$  and  $lab^*icu^*$

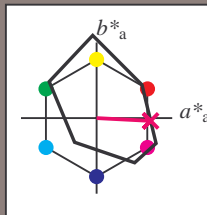
Hue texts:

$u^*_e = b75r$   $u^*_d = m34o$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 39\ 71\ -4$

$LAB^*LCH^*_{Ma}: 39\ 72\ 357$

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

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	162c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

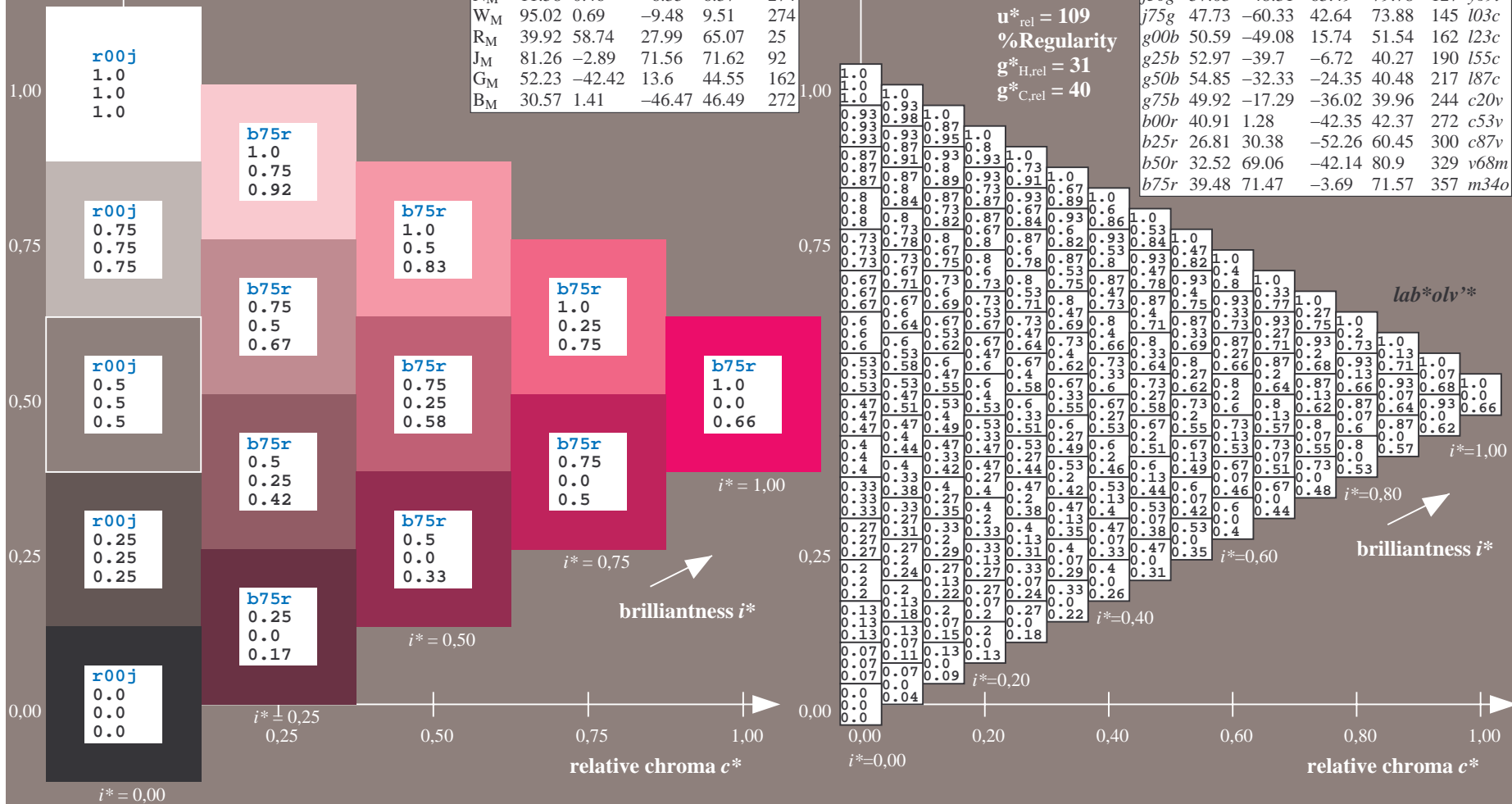
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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







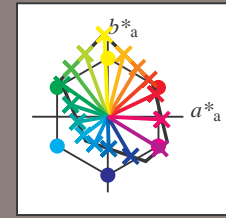


Input and output:  
 Colorimetric Printer Reflective System FRS12\_95a  
 data for any colour:

$u^*_e$  and number *no.* = 00 .. 15  
 elementary hue text:  
 $u^*_e = 16$  hues *r00j, r25j, ..., b75r*  
 contrast reduction factor:  
 $c_R = 1.0$

**FRS12\_95a; adapted (a) CIELAB data**

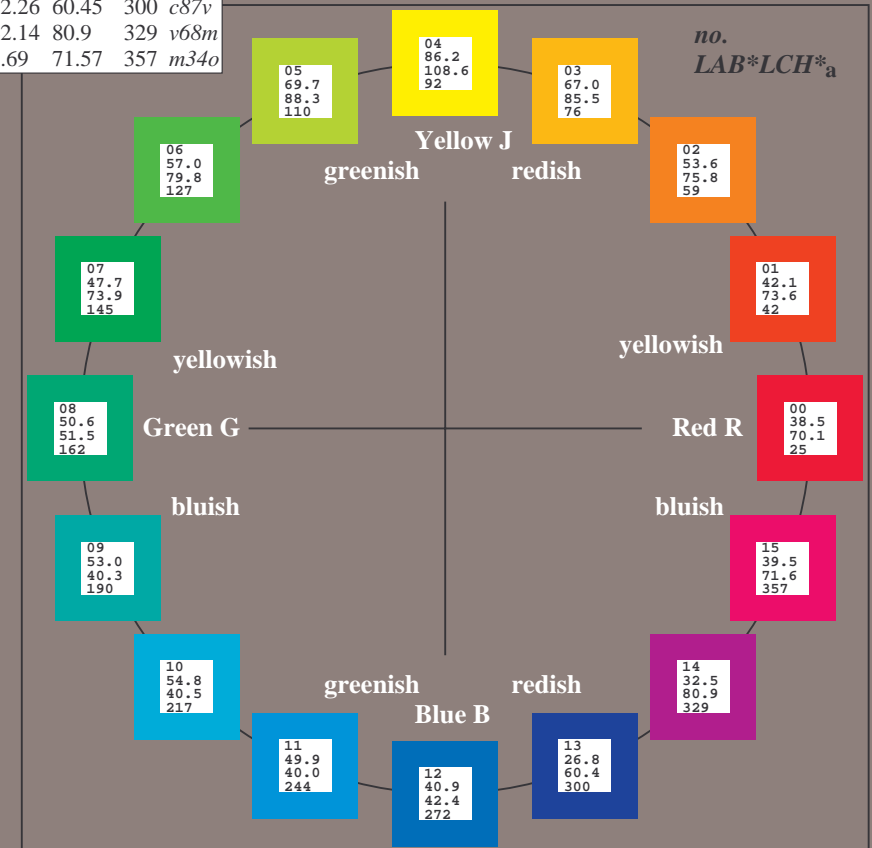
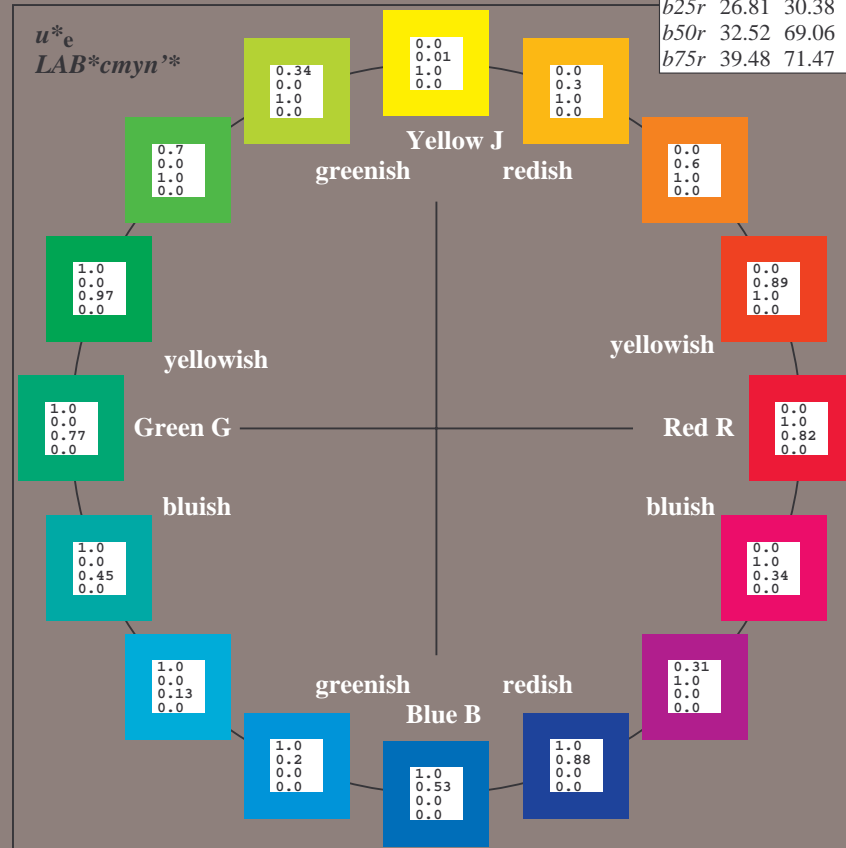
$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	-4.38	108.53	108.62	92	o98y
j25g	69.73	-29.89	83.06	88.28	110	y34l
j50g	57.03	-48.31	63.49	79.78	127	y69l
j75g	47.73	-60.33	42.64	73.88	145	l03c
g00b	50.59	-49.08	15.74	51.54	162	l23c
g25b	52.97	-39.7	-6.72	40.27	190	l55c
g50b	54.85	-32.33	-24.35	40.48	217	l87c
g75b	49.92	-17.29	-36.02	39.96	244	c20v
b00r	40.91	1.28	-42.35	42.37	272	c53v
b25r	26.81	30.38	-52.26	60.45	300	c87v
b50r	32.52	69.06	-42.14	80.9	329	v68m
b75r	39.48	71.47	-3.69	71.57	357	m34o



%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

**FRS12\_95a; CIELAB data**

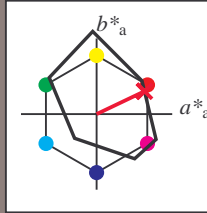
Name	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.89	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.42	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
 data for any colour:

$u^*_e = r00j$   
 $LAB^*cmy^n$ \*

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



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 38 63 30

$LAB^*LCH^*_{Ma}$ : 38 70 25

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

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

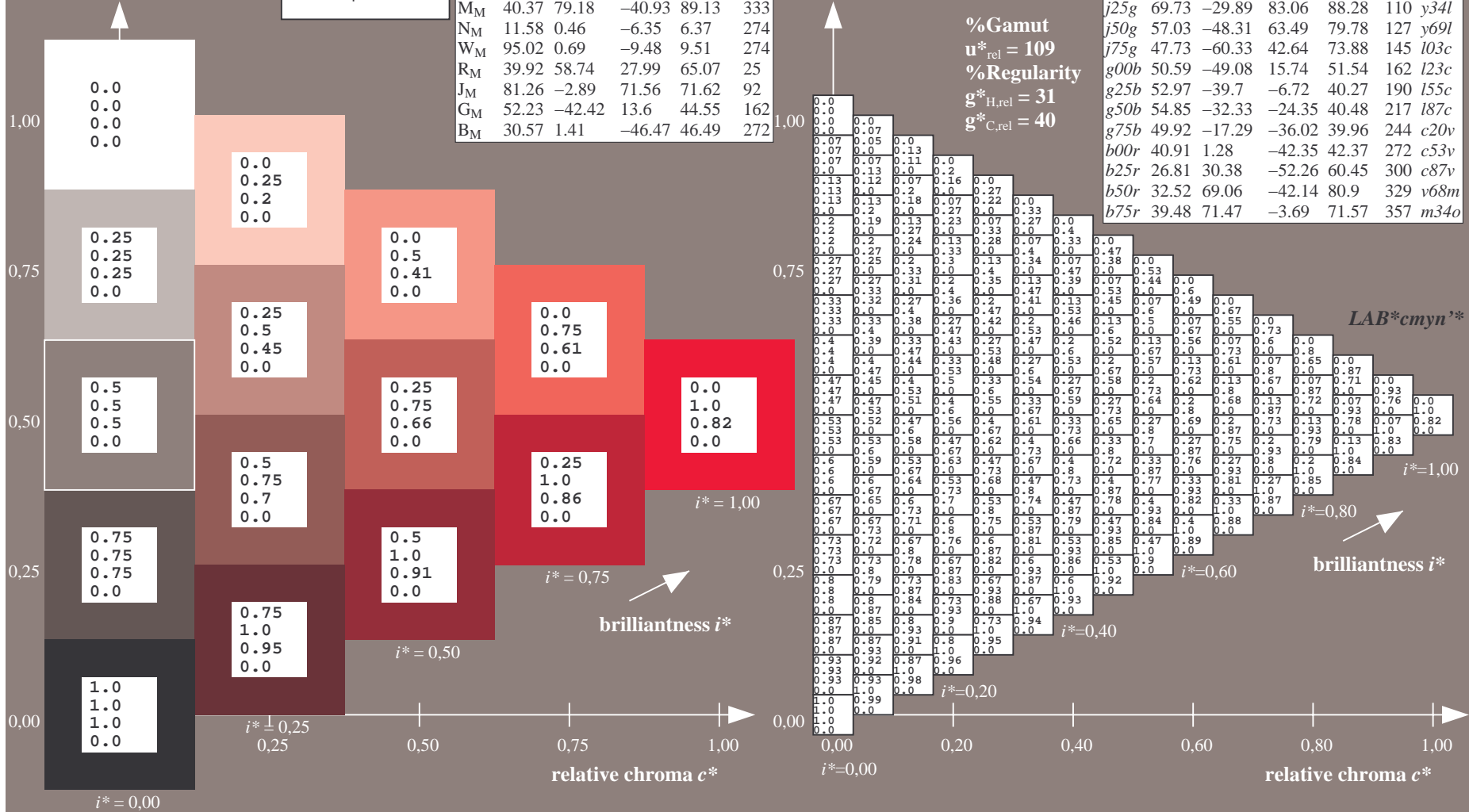
%Gamut

$u^*_{rel} = 109$

%Regularity

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

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



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.117$

$u^*_e = r25j$

data for any colour:

$LAB^*c_{myn}''^*$

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

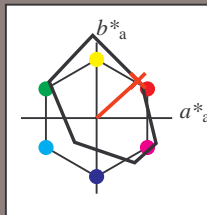
Hue texts:

$u^*_e = r25j$   $u^*_d = o10y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 42\ 55\ 49$

$LAB^*LCH^*_{Ma}: 42\ 74\ 42$

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

$lab^*olv^*_{Ma}: 1.0\ 0.11\ 0.0$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

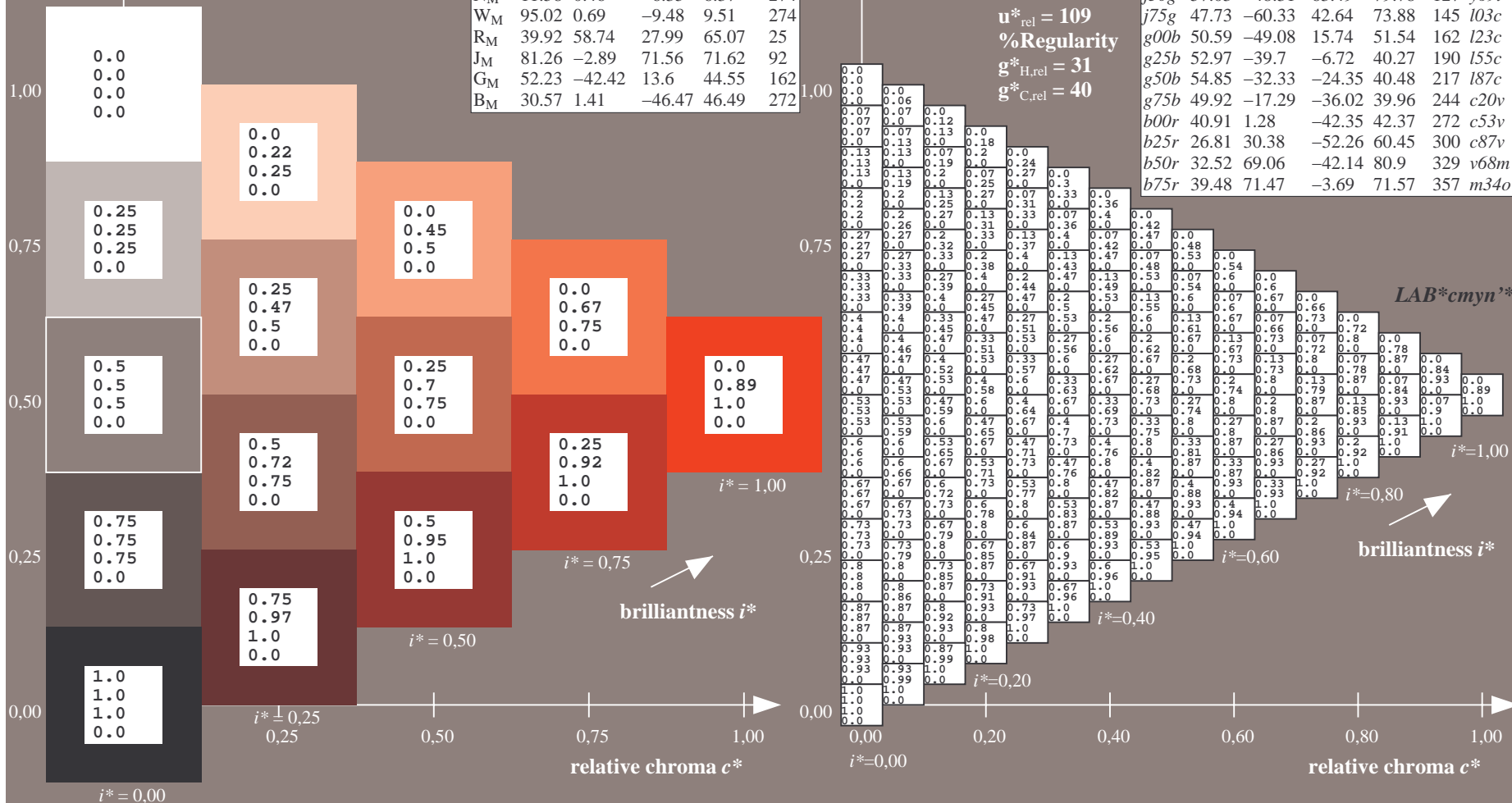
%Gamut

$u^*_{rel} = 109$

%Regularity

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

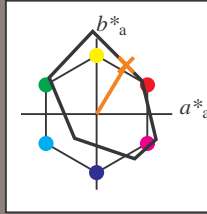
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.164$   
 data for any colour:

$u^*_e = r50j$   
 $LAB^*cmy^n$ \*

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r50j$   $u^*_d = o40y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_Ma: 54\ 39\ 65$

$LAB^*LCH^*_Ma: 54\ 76\ 58$

$lab^*rgb^*_Ma: 1.0\ 0.5\ 0.0$

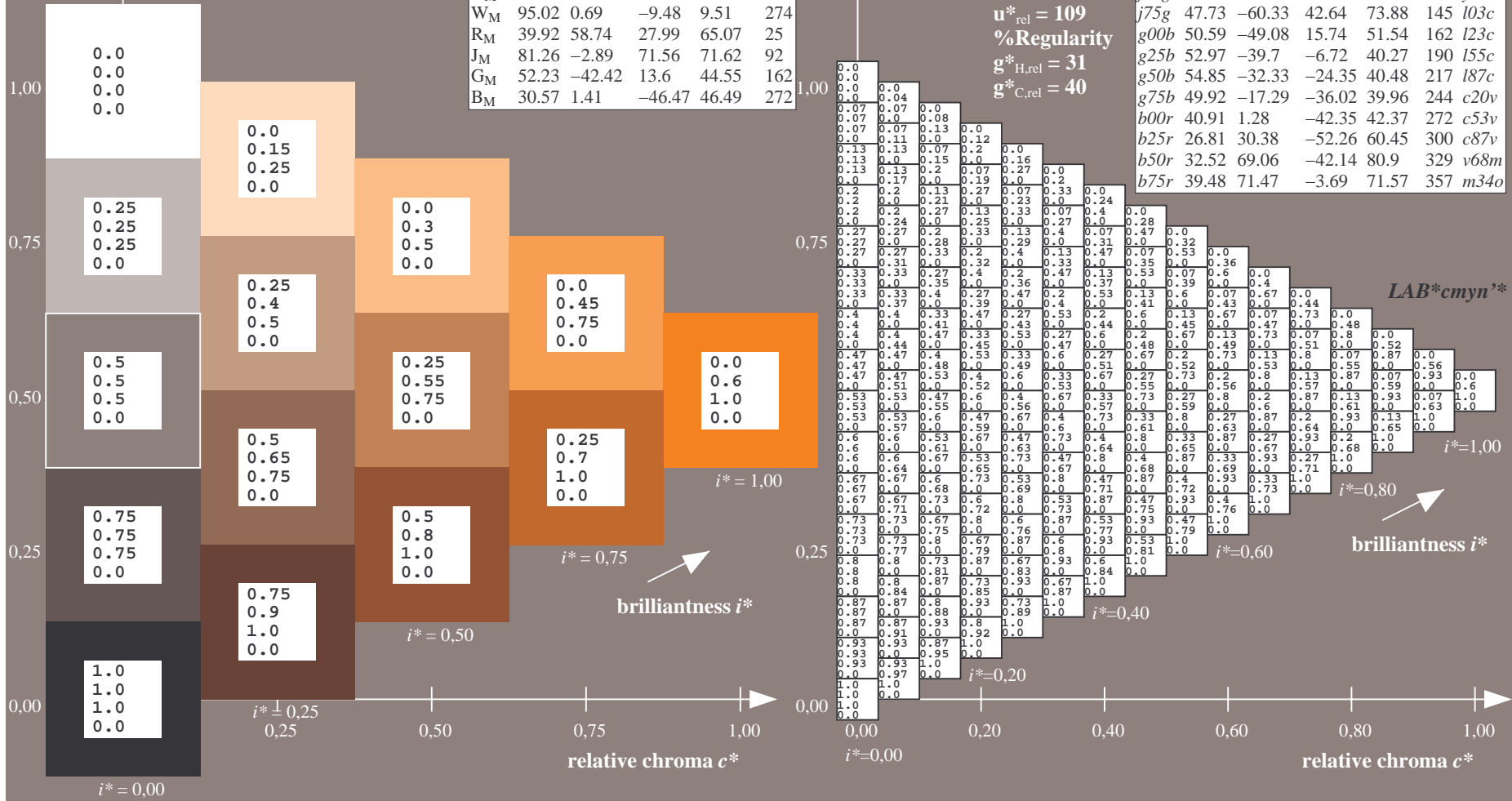
$lab^*olv^*_Ma: 1.0\ 0.4\ 0.0$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

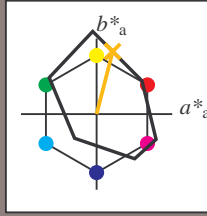
% Gamut  
 $u^*_{rel} = 109$   
 % Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.21$   
 data for any colour:

$u^*_e = r75j$   
 $LAB^*c_{myn}''^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = r75j$   $u^*_d = o69y$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $i^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 67\ 21\ 83$

$LAB^*LCH^*_{Ma}: 67\ 86\ 75$

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

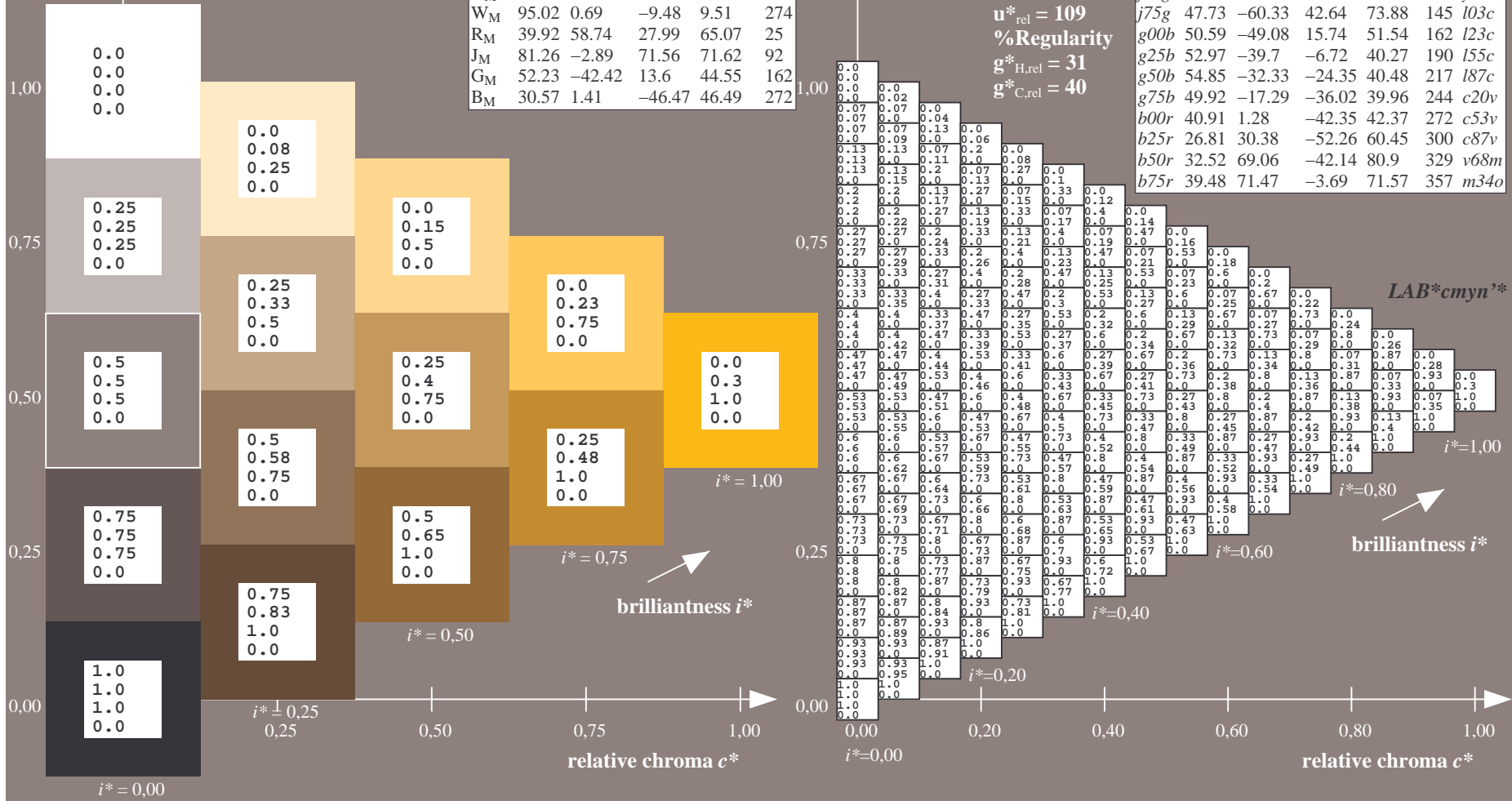
$lab^*olv^*_{Ma}: 1.0\ 0.7\ 0.0$

triangle lightness  $i^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	i23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.256$

$u^*_e = j00g$   
 $LAB^*cmy^n$ \*

data for any colour:

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

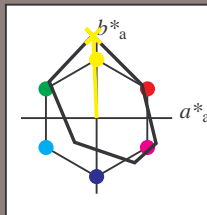
Hue texts:

$u^*_e = j00g$   $u^*_d = o98y$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; CIELAB data						
	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 86 -4 109$

$LAB^*LCH^*_{Ma}: 86 109 92$

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

$lab^*olv^*_{Ma}: 1.0 0.99 0.0$

triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 109$

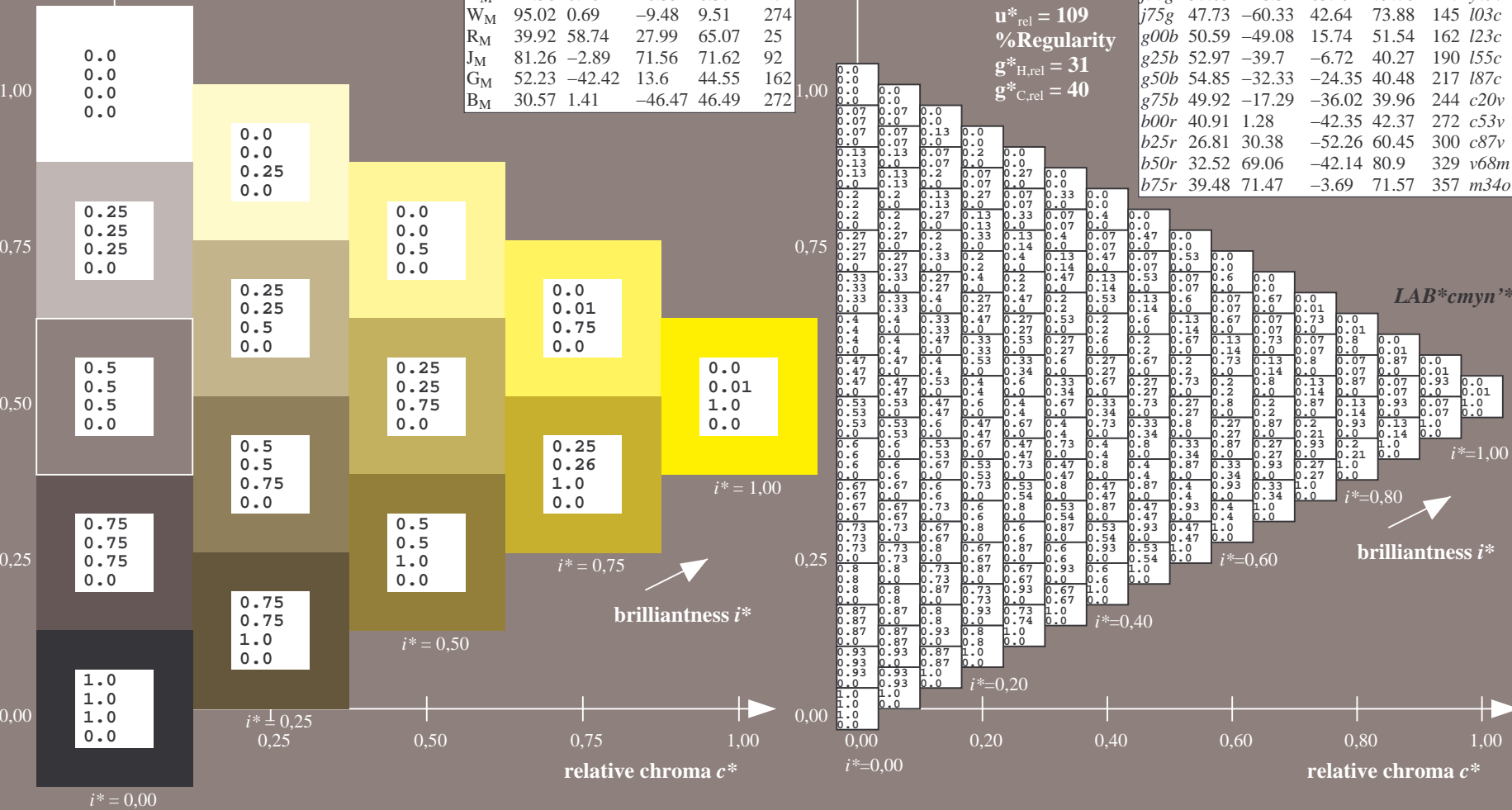
%Regularity

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

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

FRS12_95a; adapted (a) CIELAB data							
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

$LAB^*cmy^n$ \*

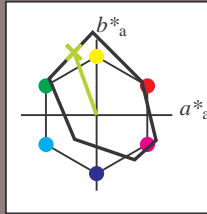




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.305$   
 data for any colour:

$u^*_e = j25g$   
 $LAB^*cmy^n$ \*

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j25g$   $u^*_d = y34l$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 70 -30 83$

$LAB^*LCH^*_{Ma}: 70 88 109$

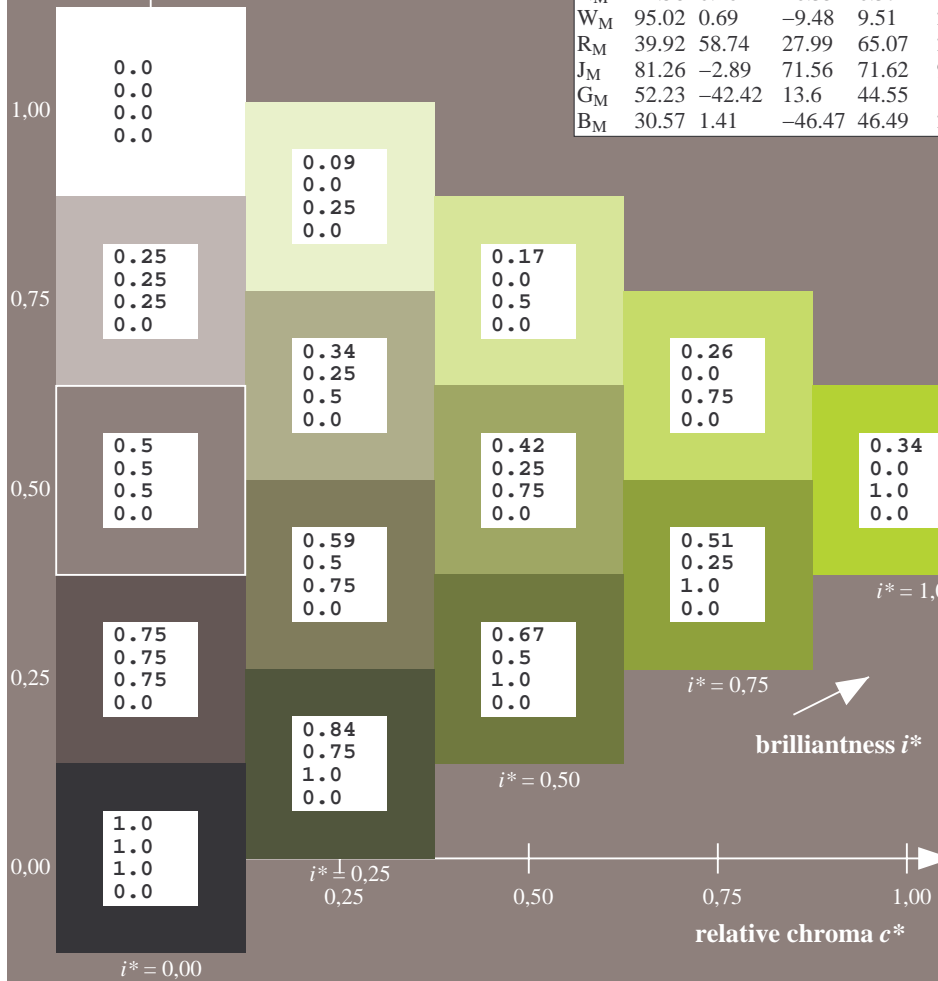
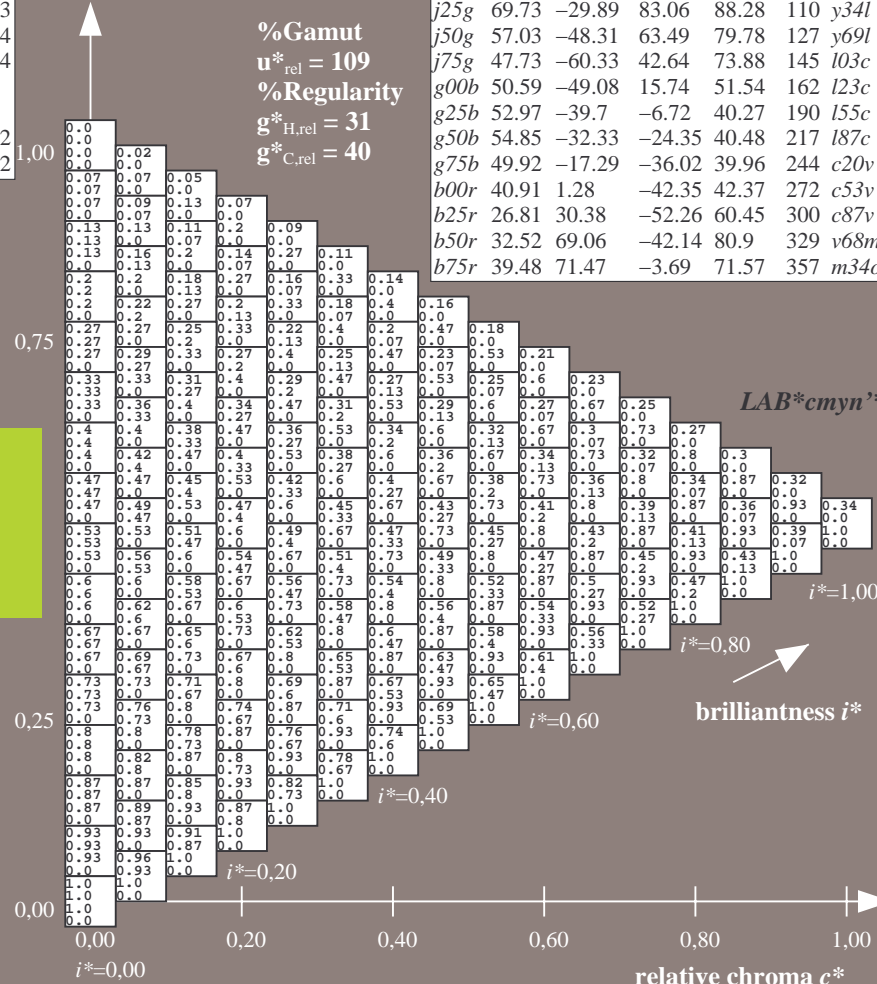
$lab^*rgb^*_{Ma}: 0.75 1.0 0.0$

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

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

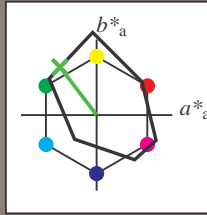
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.354$   
 data for any colour:

$u^*_e = j50g$   
 $LAB^*cmy^n$ \*

$lab^*ch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j50g$   $u^*_d = y69l$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $i^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 57 -48 63$

$LAB^*LCH^*_{Ma}: 57 80 127$

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

$lab^*olv^*_{Ma}: 0.3 1.0 0.0$

triangle lightness  $i^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	i03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	i55c	
g50b	54.85	-32.33	-24.35	40.48	217	i87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

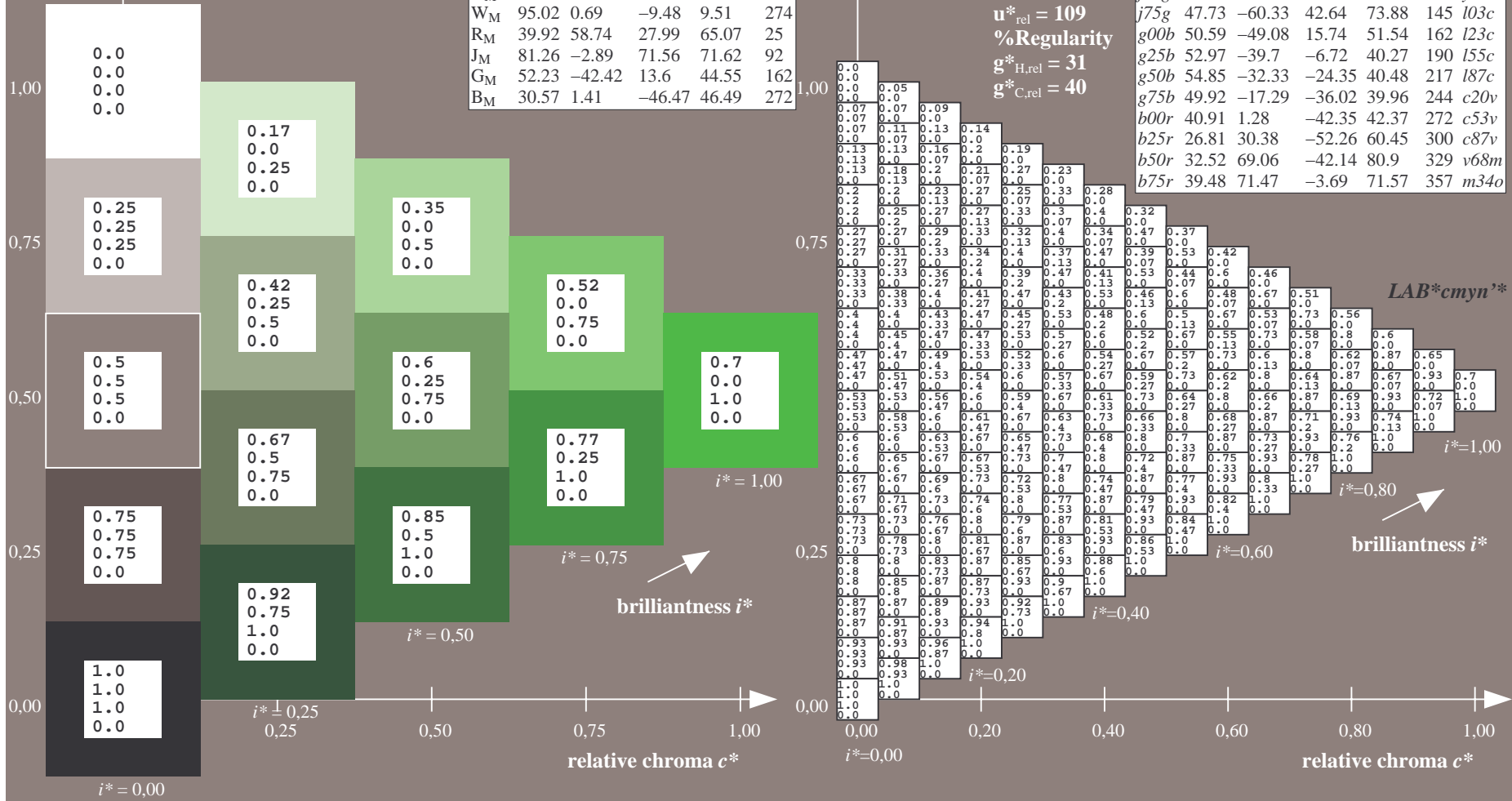
% Gamut

$u^*_{rel} = 109$

% Regularity

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

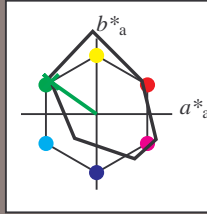
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.402$   
 data for any colour:

$u^*_e = j75g$   
 $LAB^*cmy^n$ \*

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = j75g$   $u^*_d = l03c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $i^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 48 -60 43$

$LAB^*LCH^*_{Ma}: 48 74 144$

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

$lab^*olv^*_{Ma}: 0.0 1.0 0.03$

triangle lightness  $i^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

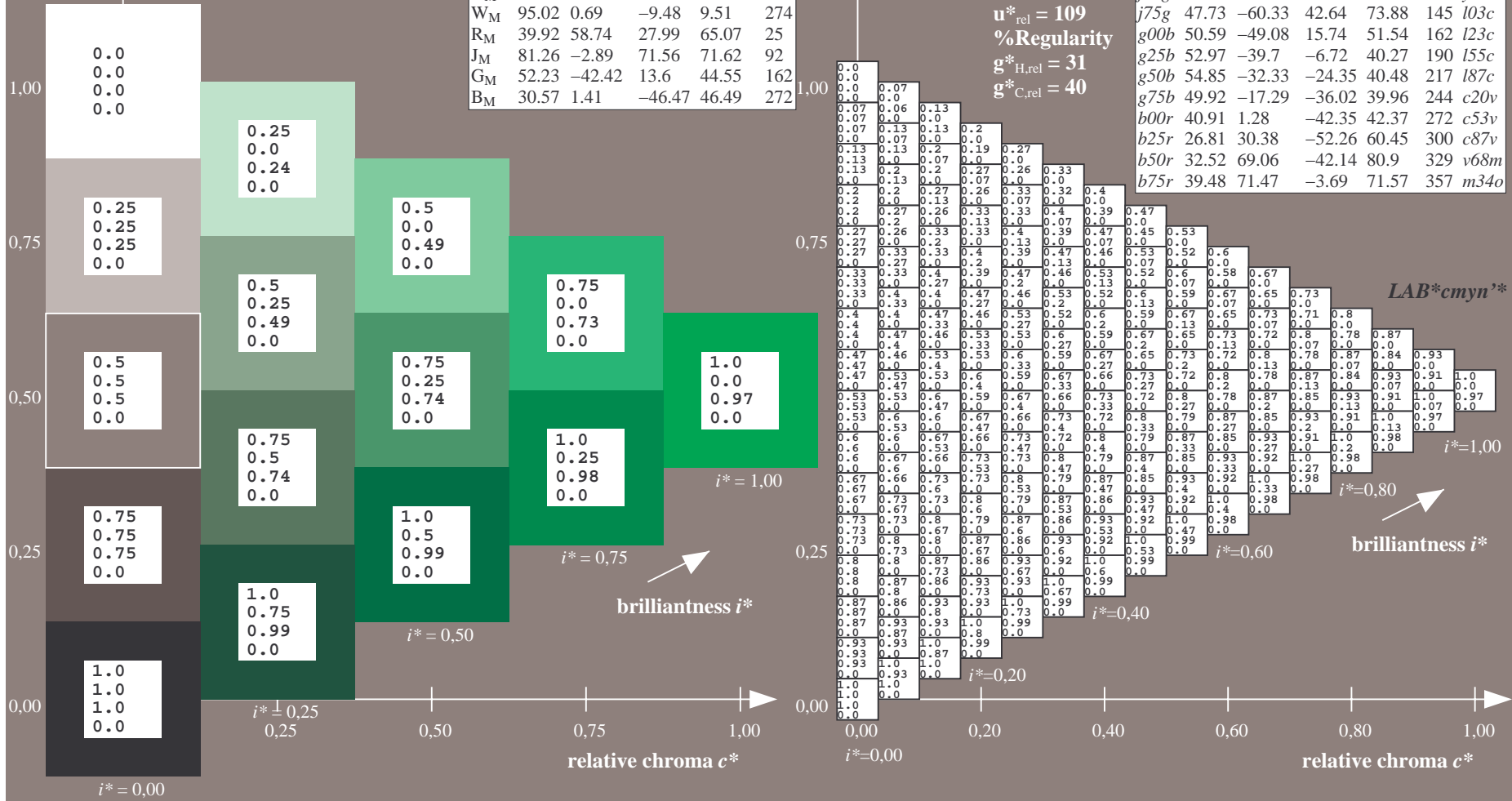
%Gamut

$u^*_{rel} = 109$

%Regularity

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

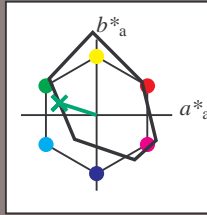
$g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.451$   
 data for any colour:

$u^*_e = g00b$   
 $LAB^*cmy^n$ \*

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g00b$   $u^*_d = l23c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 51 -49 16$

$LAB^*LCH^*_{Ma}: 51 52 162$

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

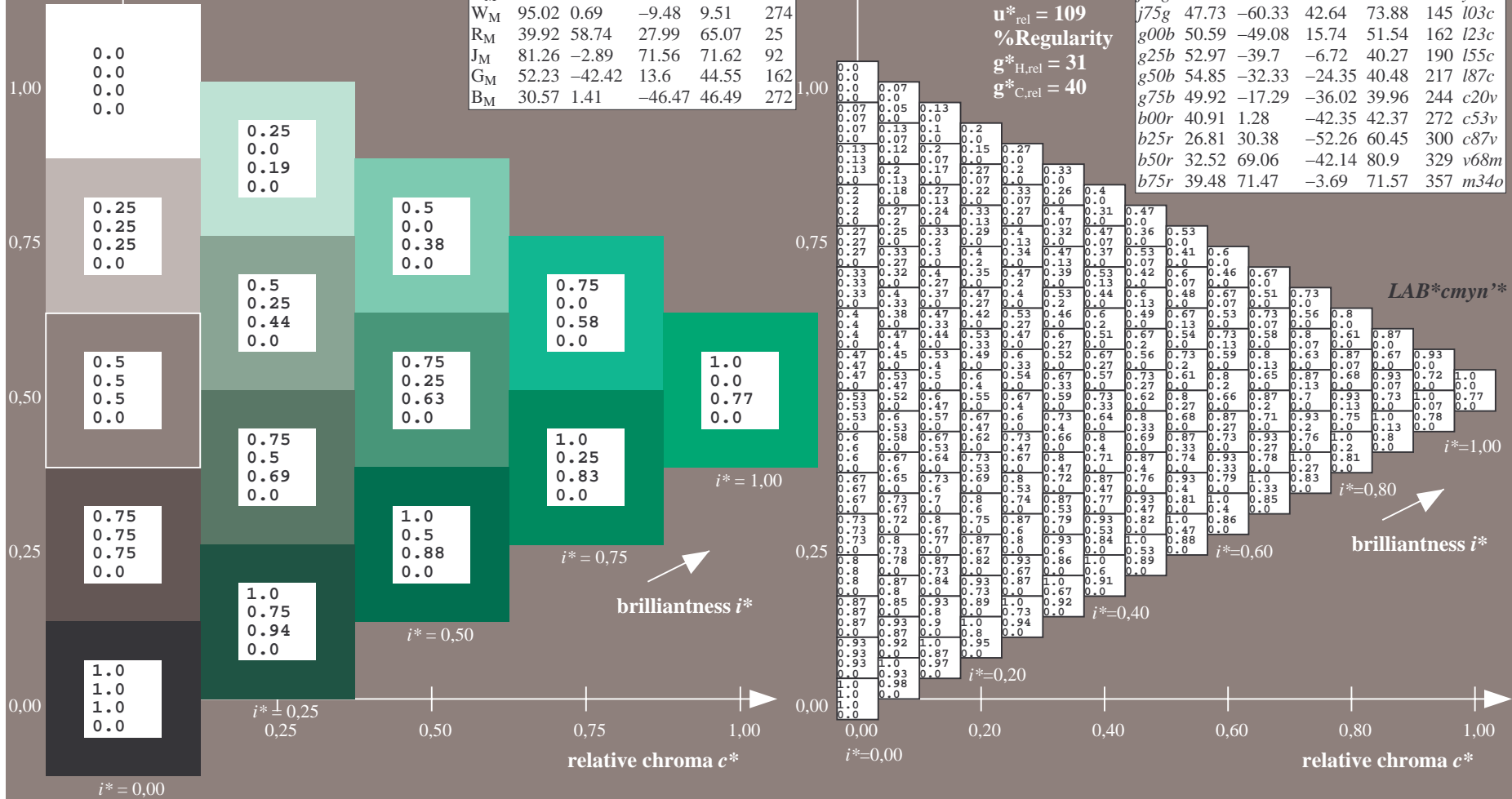
$lab^*olv^*_{Ma}: 0.0 1.0 0.23$

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

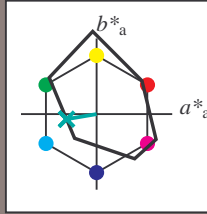
% Gamut  
 $u^*_{rel} = 109$   
 % Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.527$   
 data for any colour:

$u^*_e = g25b$   
 $LAB^*cmy^n$ \*

$lab^*ch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g25b$   $u^*_d = l55c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 53 -40 -7$

$LAB^*LCH^*_{Ma}: 53 40 189$

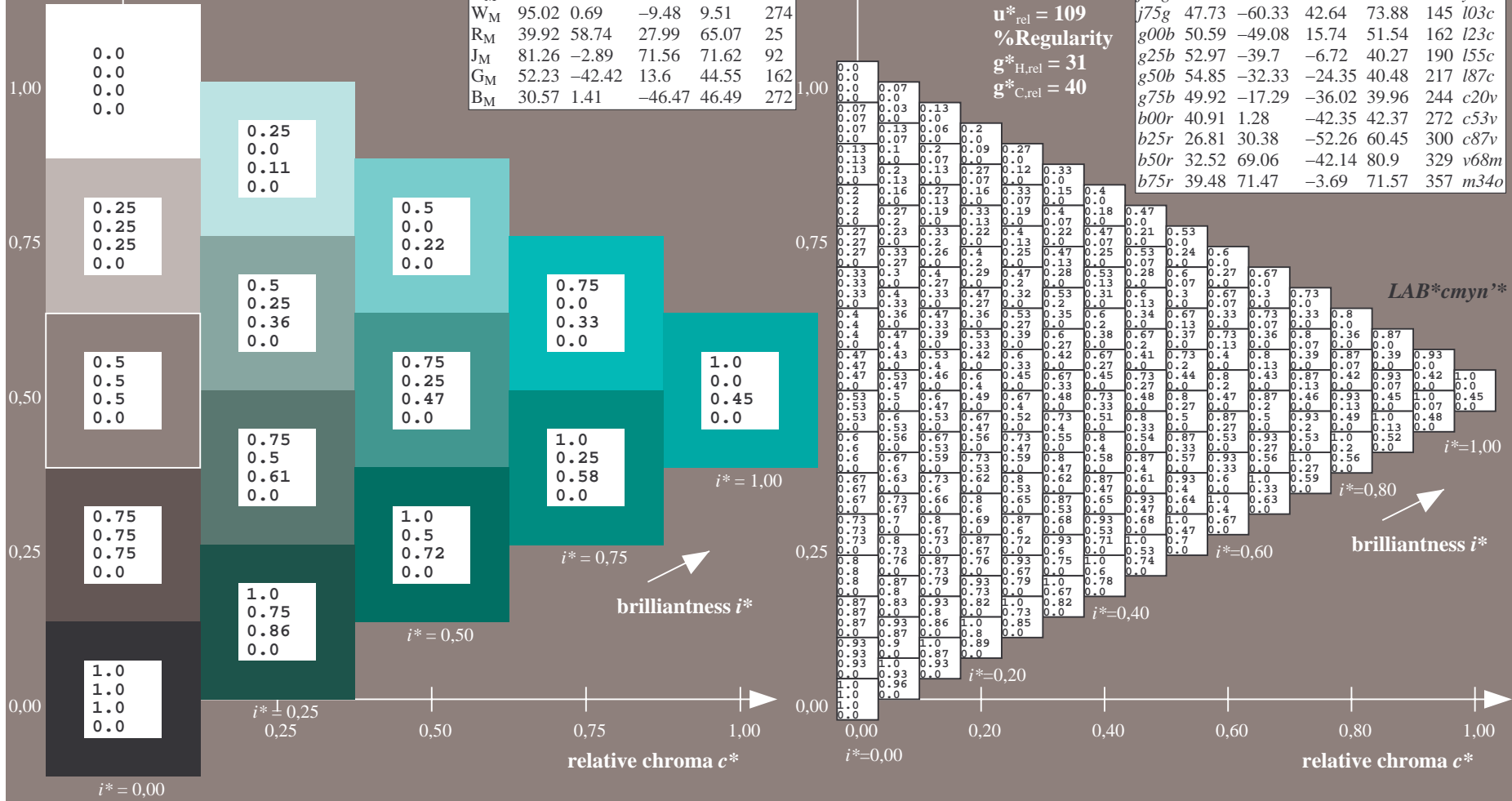
$lab^*rgb^*_{Ma}: 0.0 1.0 0.5$

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

triangle lightness  $t^*$

FRS12\_95a; adapted (a) CIELAB data

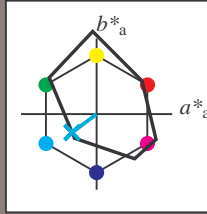
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.603$   
 data for any colour:

$u^*_e = g50b$   
 $LAB^*cmy^n$ \*

$lab^*tc^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = g50b$   $u^*_d = l87c$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $i^*$



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

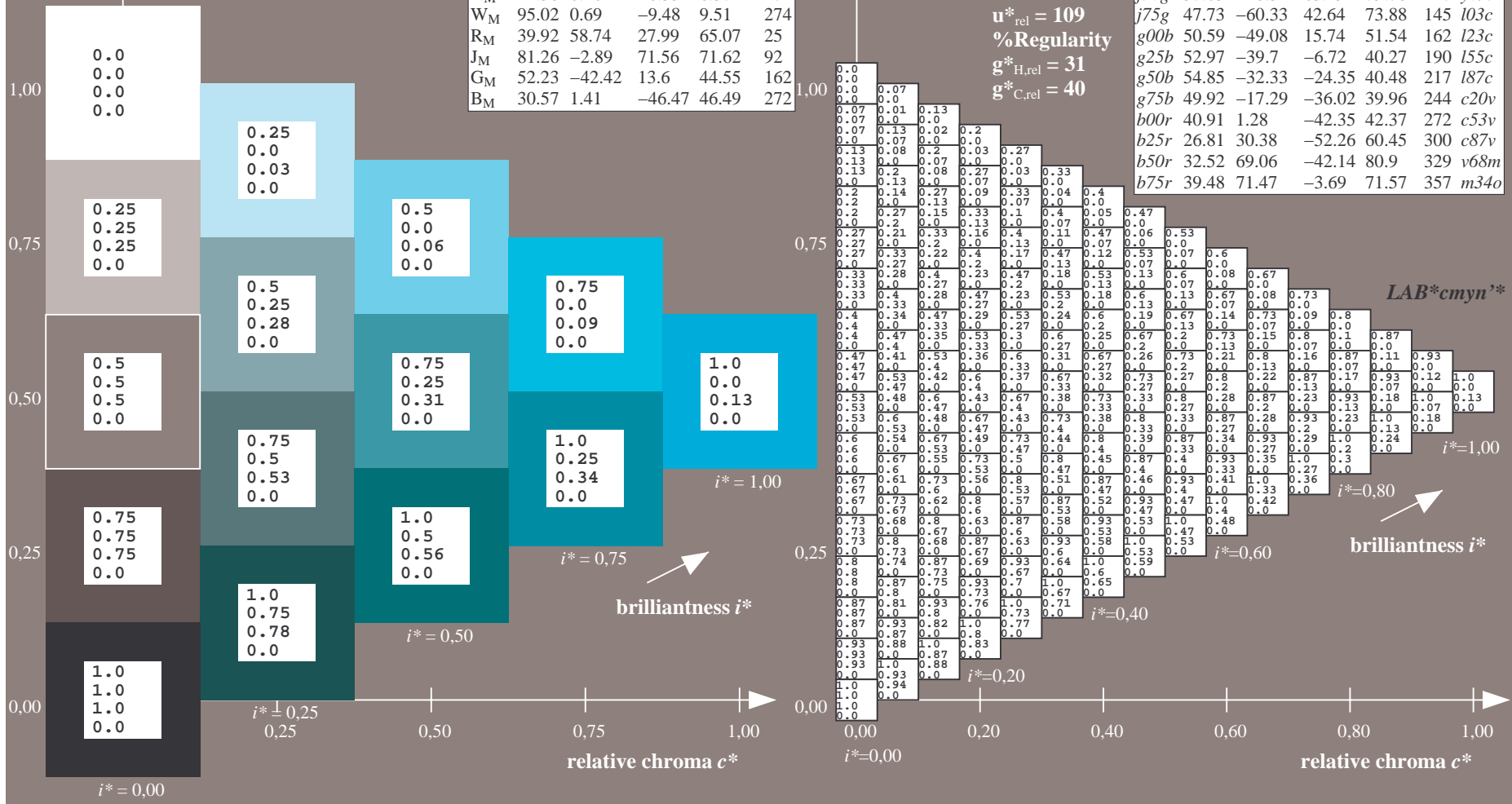
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 55 -32 -24$   
 $LAB^*LCH^*_{Ma}: 55 40 216$   
 $lab^*rgb^*_{Ma}: 0.0 1.0 1.0$   
 $lab^*olv^*_{Ma}: 0.0 1.0 0.87$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

triangle lightness  $i^*$   
 %Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

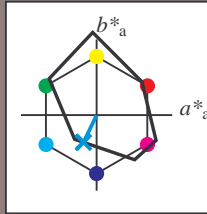




Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.679$   
 data for any colour:

$u^*_e = g75b$   
 $LAB^*c_{myn}''^*$

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



**FRS12\_95a; CIELAB data**

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 50 -17 -36$

$LAB^*LCH^*_{Ma}: 50 40 244$

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

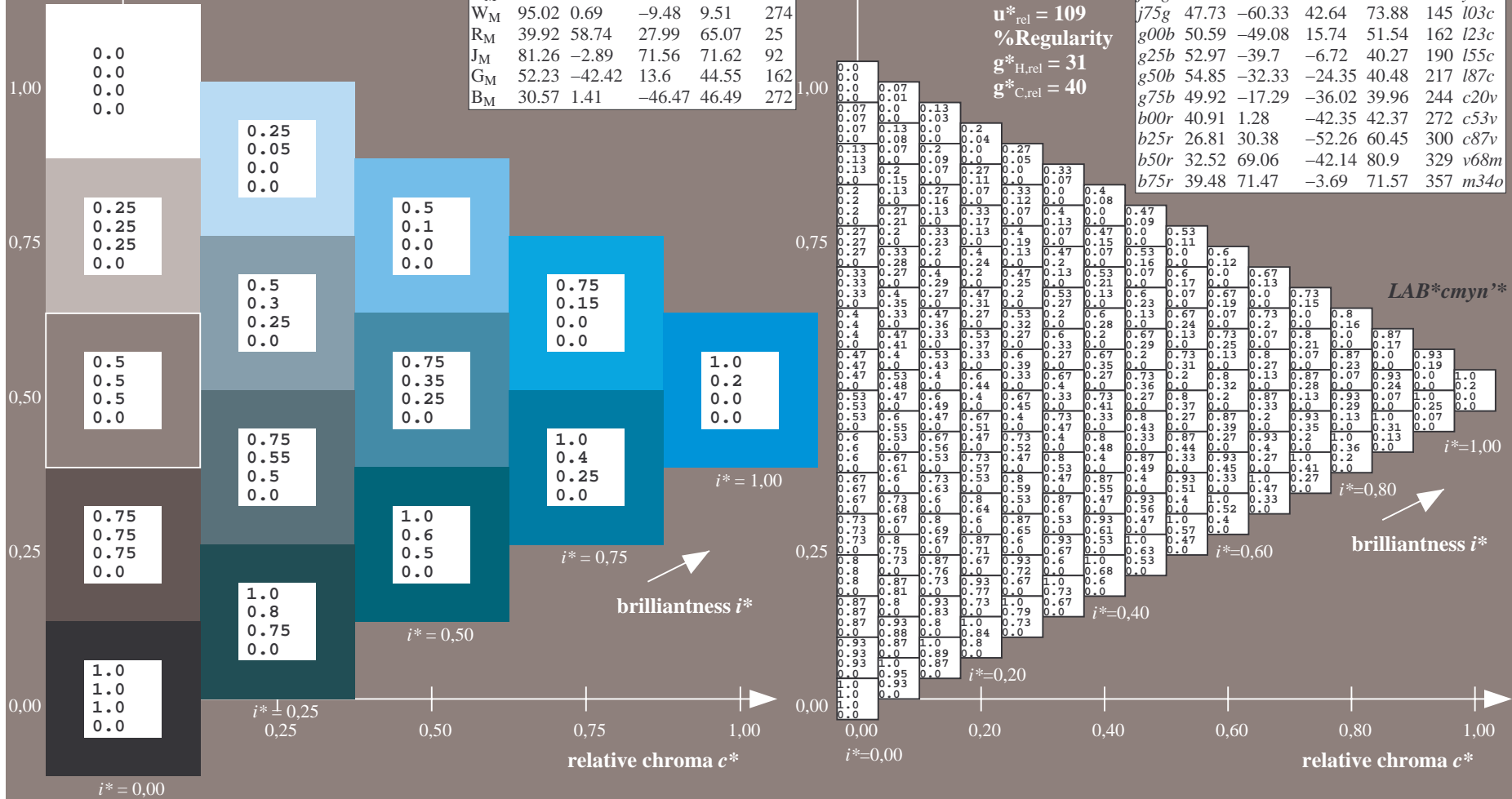
$lab^*olv^*_{Ma}: 0.0 0.8 1.0$

triangle lightness  $t^*$

**FRS12\_95a; adapted (a) CIELAB data**

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

%Gamut  
 $u^*_{rel} = 109$   
 %Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$



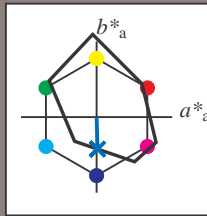
Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.755$

$u^*_e = b00r$

data for any colour:

LAB\*cmy'n\*\*

$lab^*tc^*$  and  $lab^*icu^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*Ma: 41 1 -42

LAB\*LCH\*Ma: 41 42 271

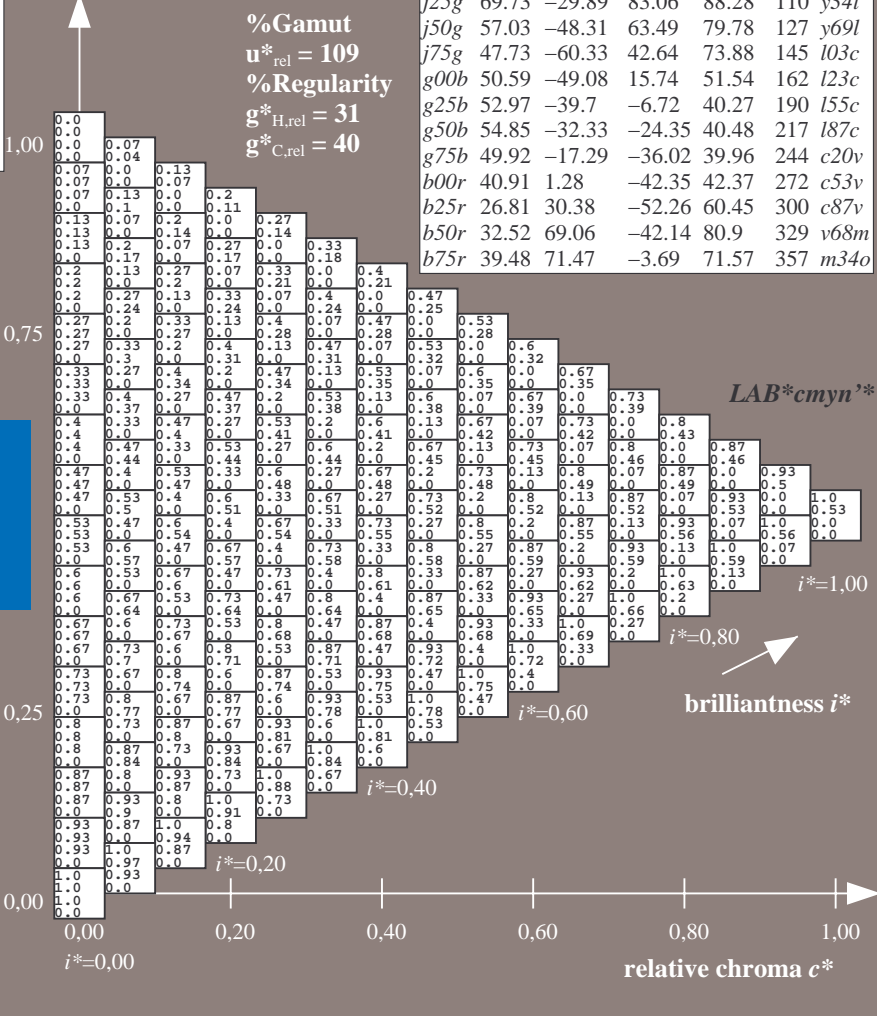
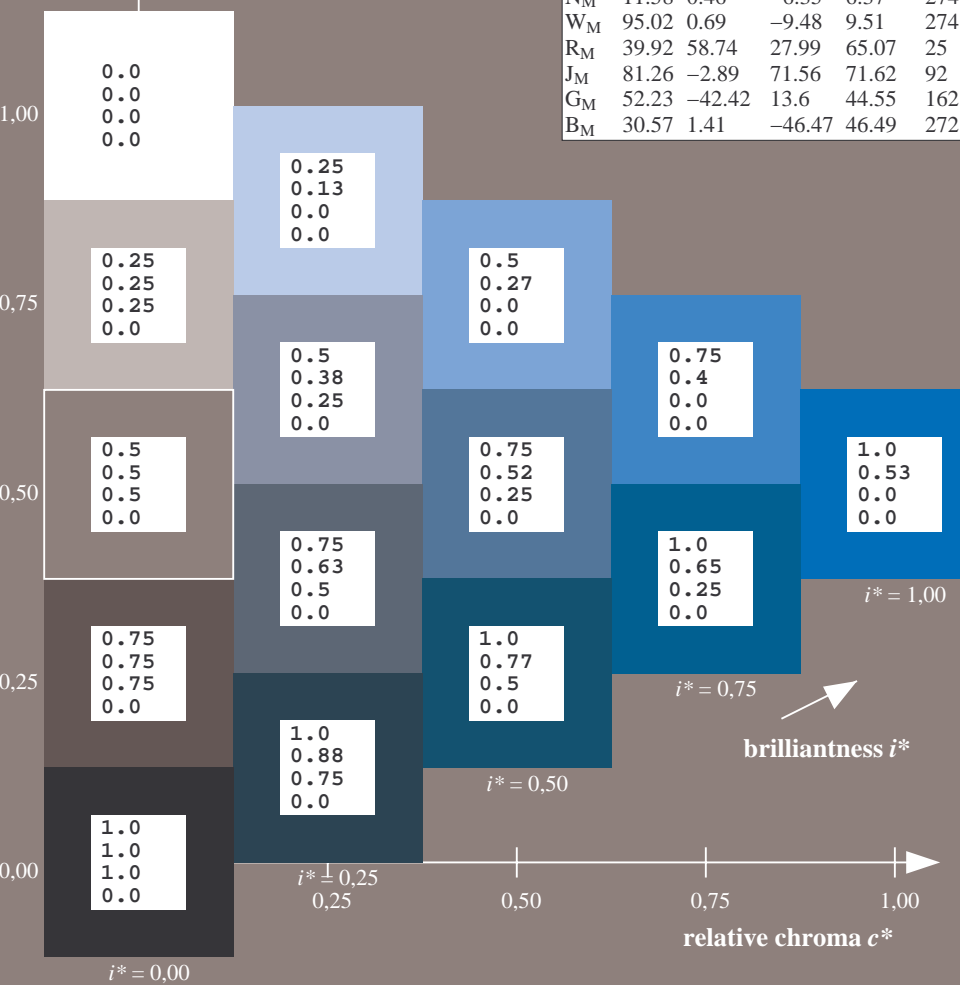
lab\*rgb\*Ma: 0.0 0.0 1.0

lab\*olv\*Ma: 0.0 0.47 1.0

triangle lightness  $i^*$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



% Gamut  
 $u^*_{rel} = 109$   
% Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 40$

LAB\*cmy'n\*\*

Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.834$

$u^*_e = b25r$   
LAB\**cmy*'\*\*

data for any colour:

$lab^*tc^*$  and  $lab^*icu^*$

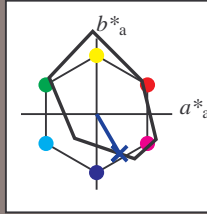
Hue texts:

$u^*_e = b25r$   $u^*_d = c87v$

contrast reduction factor:

$c_R = 1.0$

triangle lightness  $t^*$



FRS12_95a; CIELAB data						
	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 27 30 -52

LAB\*LCH\*<sub>Ma</sub>: 27 60 300

lab\*rgb\*<sub>Ma</sub>: 0.5 0.0 1.0

lab\*olv\*<sub>Ma</sub>: 0.0 0.12 1.0

triangle lightness  $t^*$

%Gamut

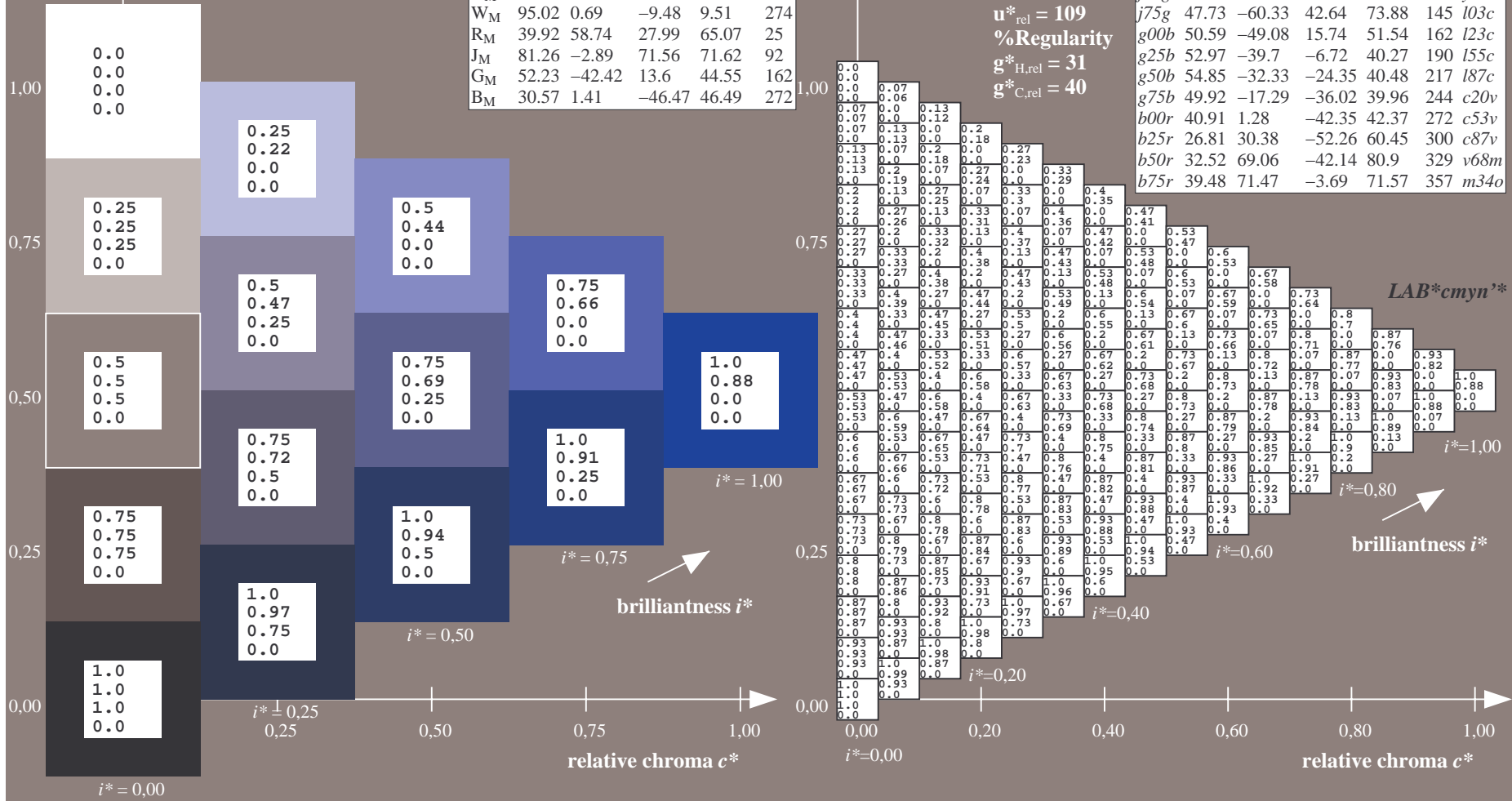
$u^*_{rel} = 109$

%Regularity

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

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

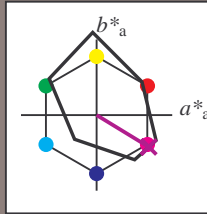
FRS12_95a; adapted (a) CIELAB data							
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.913$

$u^*_e = b50r$   
LAB\**cmy*'\*

data for any colour:  
lab\**tc*\* and lab\**icu*\*  
Hue texts:  
 $u^*_e = b50r$   $u^*_d = v68m$   
contrast reduction factor:  
 $c_R = 1.0$   
triangle lightness  $i^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

LAB\*LAB\*<sub>Ma</sub>: 33 69 -42

LAB\*LCH\*<sub>Ma</sub>: 33 81 328

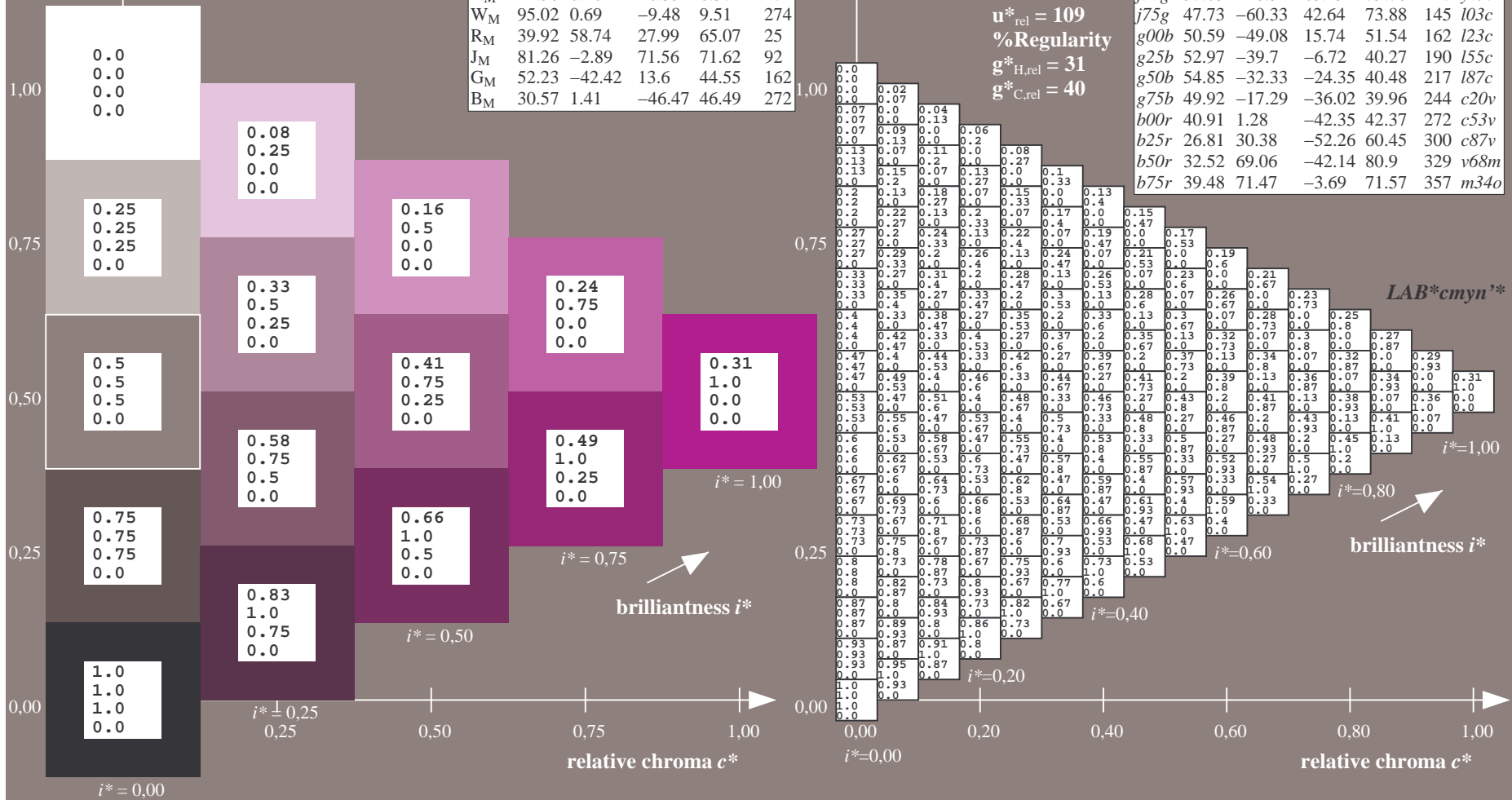
lab\**rgb*\*<sub>Ma</sub>: 1.0 0.0 1.0

lab\**olv*\*<sub>Ma</sub>: 0.69 0.0 1.0

triangle lightness  $i^*$

FRS12\_95a; adapted (a) CIELAB data

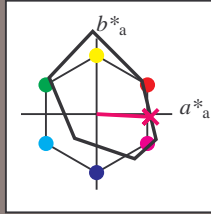
	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS12\_95a, L\*=12\_95 for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.992$   
 data for any colour:

$u^*_e = b75r$   
 $LAB^*cmy^n'^*$

$lab^*tch^*$  and  $lab^*icu^*$   
 Hue texts:  
 $u^*_e = b75r$   $u^*_d = m34o$   
 contrast reduction factor:  
 $c_R = 1.0$   
 triangle lightness  $t^*$



FRS12\_95a; CIELAB data

	$u^*_e$	$L^*=L^*$	$a^*$	$b^*$	$C^*_{ab}$	$h^*_{ab}$
O <sub>M</sub>	38.06	60.53	36.66	70.77	31	
Y <sub>M</sub>	86.77	-4.5	100.15	100.25	93	
L <sub>M</sub>	47.13	-62.11	40.56	74.18	147	
C <sub>M</sub>	55.66	-28.56	-39.99	49.14	234	
V <sub>M</sub>	17.15	50.78	-65.6	82.96	308	
M <sub>M</sub>	40.37	79.18	-40.93	89.13	333	
N <sub>M</sub>	11.58	0.46	-6.35	6.37	274	
W <sub>M</sub>	95.02	0.69	-9.48	9.51	274	
R <sub>M</sub>	39.92	58.74	27.99	65.07	25	
J <sub>M</sub>	81.26	-2.89	71.56	71.62	92	
G <sub>M</sub>	52.23	-42.42	13.6	44.55	162	
B <sub>M</sub>	30.57	1.41	-46.47	46.49	272	

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}: 39\ 71\ -4$   
 $LAB^*LCH^*_{Ma}: 39\ 72\ 357$   
 $lab^*rgb^*_{Ma}: 1.0\ 0.0\ 0.5$   
 $lab^*olv^*_{Ma}: 1.0\ 0.0\ 0.66$

FRS12\_95a; adapted (a) CIELAB data

	$u^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	$u^*_d$
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	-4.38	108.53	108.62	92	o98y	
j25g	69.73	-29.89	83.06	88.28	110	y34l	
j50g	57.03	-48.31	63.49	79.78	127	y69l	
j75g	47.73	-60.33	42.64	73.88	145	l03c	
g00b	50.59	-49.08	15.74	51.54	162	l23c	
g25b	52.97	-39.7	-6.72	40.27	190	l55c	
g50b	54.85	-32.33	-24.35	40.48	217	l87c	
g75b	49.92	-17.29	-36.02	39.96	244	c20v	
b00r	40.91	1.28	-42.35	42.37	272	c53v	
b25r	26.81	30.38	-52.26	60.45	300	c87v	
b50r	32.52	69.06	-42.14	80.9	329	v68m	
b75r	39.48	71.47	-3.69	71.57	357	m34o	

