

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 37/360 = 0.102$

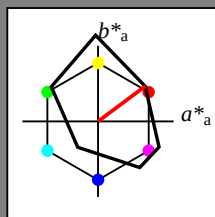
lab^*ich and lab^*nch

D65: hue O

LCH*Ma: 33 78 37

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 37/360 = 0.102$

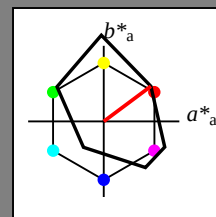
lab^*ich and lab^*nch

D65: hue O

LCH*Ma: 33 78 37

olv*Ma: 1.0 0.0 0.0

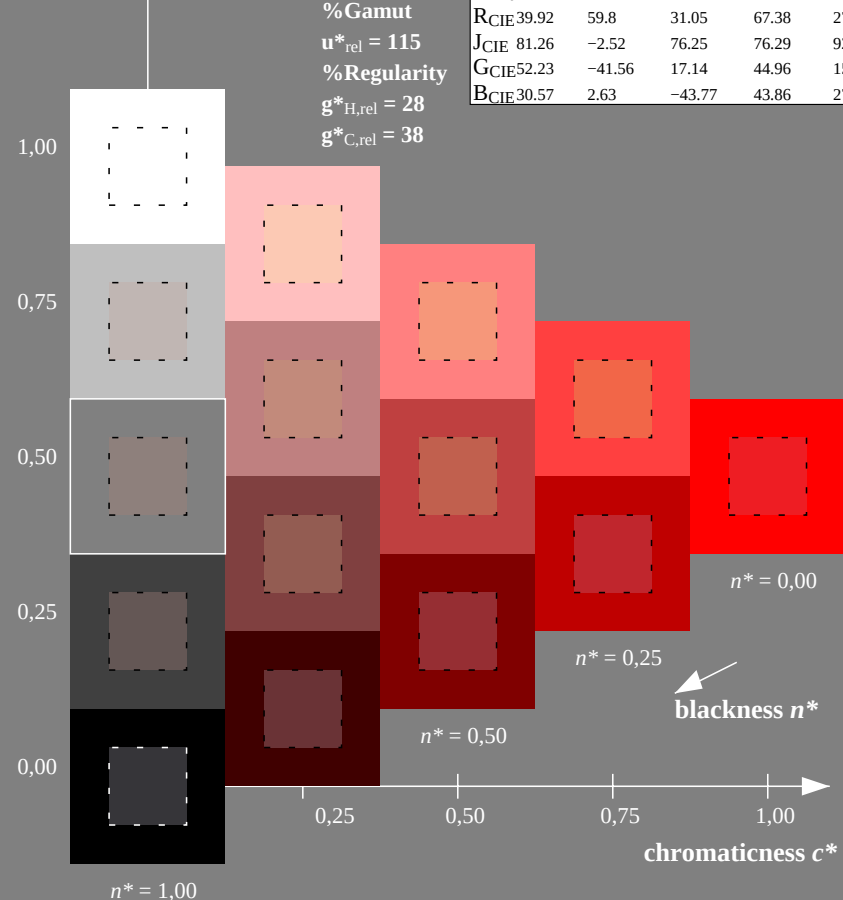
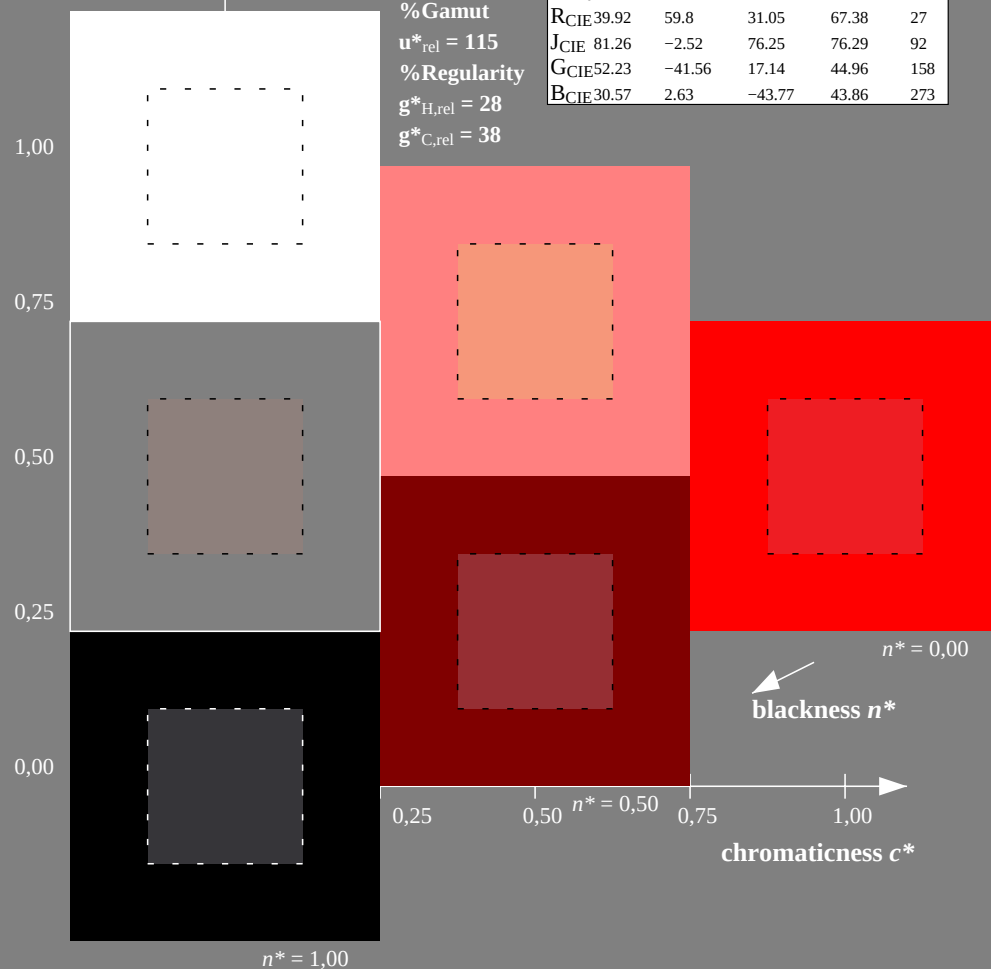
triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
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J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 37/360 = 0.102 (left)

5 step scales for constant CIELAB hue 37/360 = 0.102 (right)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06

D65: 3 and 5 step colour scales for 10 hues

input: *cmY0-center, rgb-background*

output: no change compared to input

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 92/360 = 0.254$

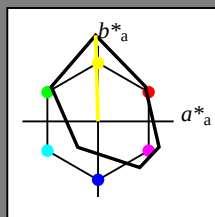
lab^*ich and lab^*nch

D65: hue Y

LCH*Ma: 83 114 92

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
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B _{CIE}	30.57	2.63	-43.77	43.86	273

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 92/360 = 0.254$

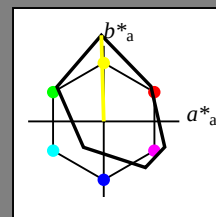
lab^*ich and lab^*nch

D65: hue Y

LCH*Ma: 83 114 92

olv*Ma: 1.0 1.0 0.0

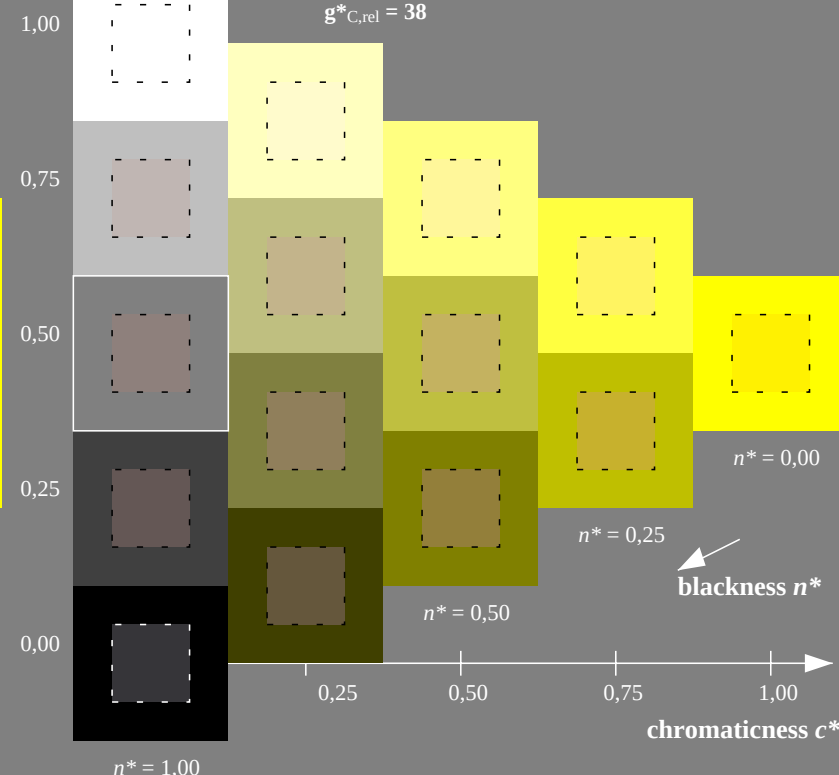
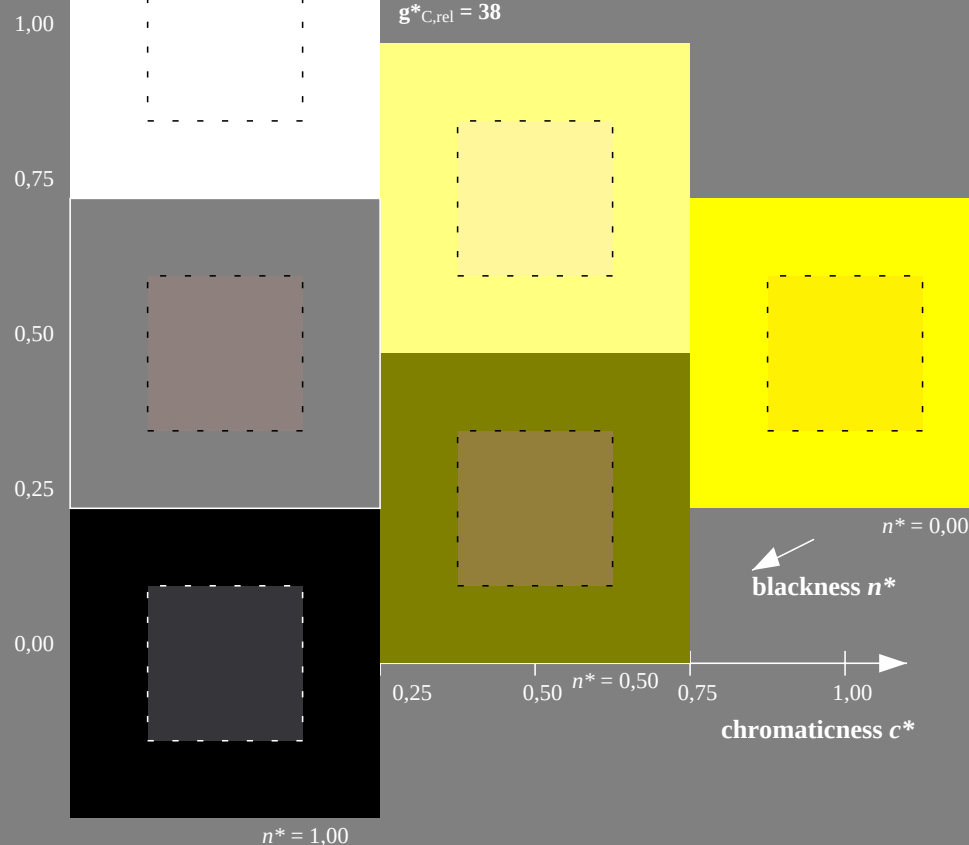
triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
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G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 92/360 = 0.254 (left)

5 step scales for constant CIELAB hue 92/360 = 0.254 (right)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06

D65: 3 and 5 step colour scales for 10 hues

input: *cmY0-center, rgb-background*

output: no change compared to input

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 143/360 = 0.398$

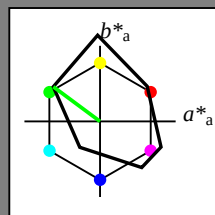
lab^*ich and lab^*nch

D65: hue L

LCH*Ma: 39 77 143

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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B _{CIE}	30.57	2.63	-43.77	43.86	273

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 143/360 = 0.398$

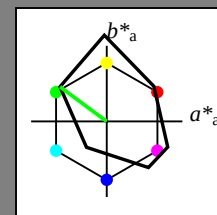
lab^*ich and lab^*nch

D65: hue L

LCH*Ma: 39 77 143

olv*Ma: 0.0 1.0 0.0

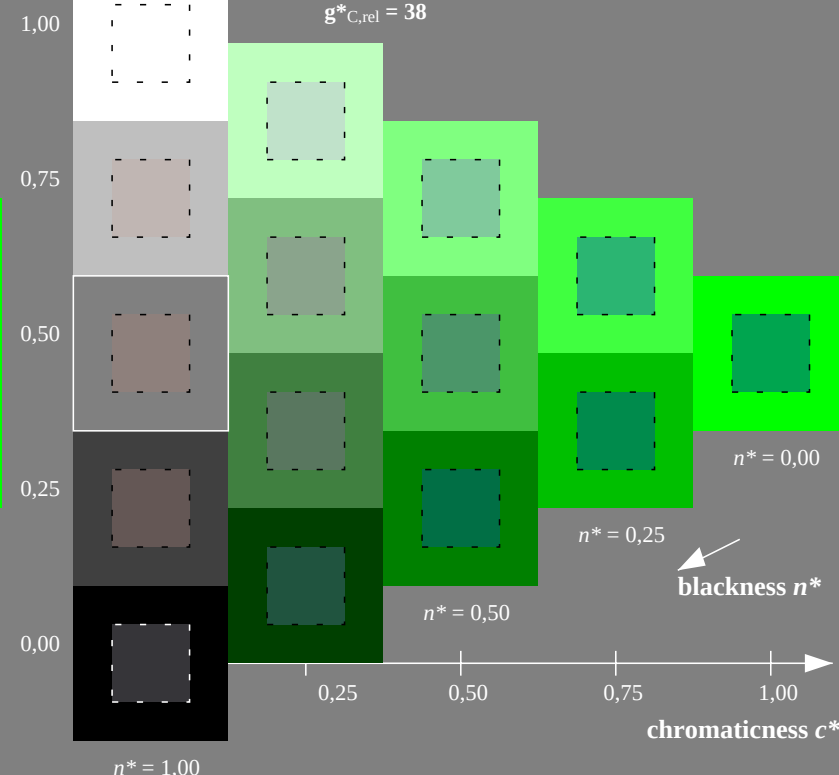
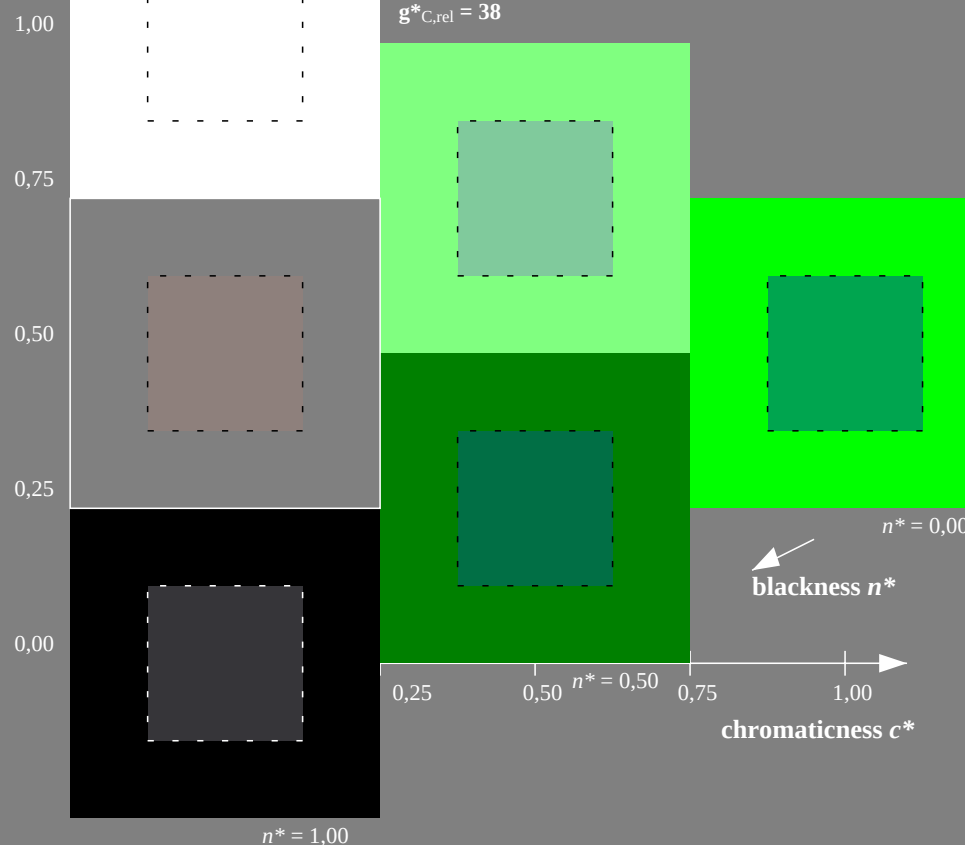
triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
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N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 143/360 = 0.398 (left)

5 step scales for constant CIELAB hue 143/360 = 0.398 (right)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06

D65: 3 and 5 step colour scales for 10 hues

input: $cmy0$ -center, rgb -background

output: no change compared to input

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 232/360 = 0.644$

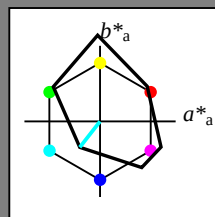
lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 48 43 232

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



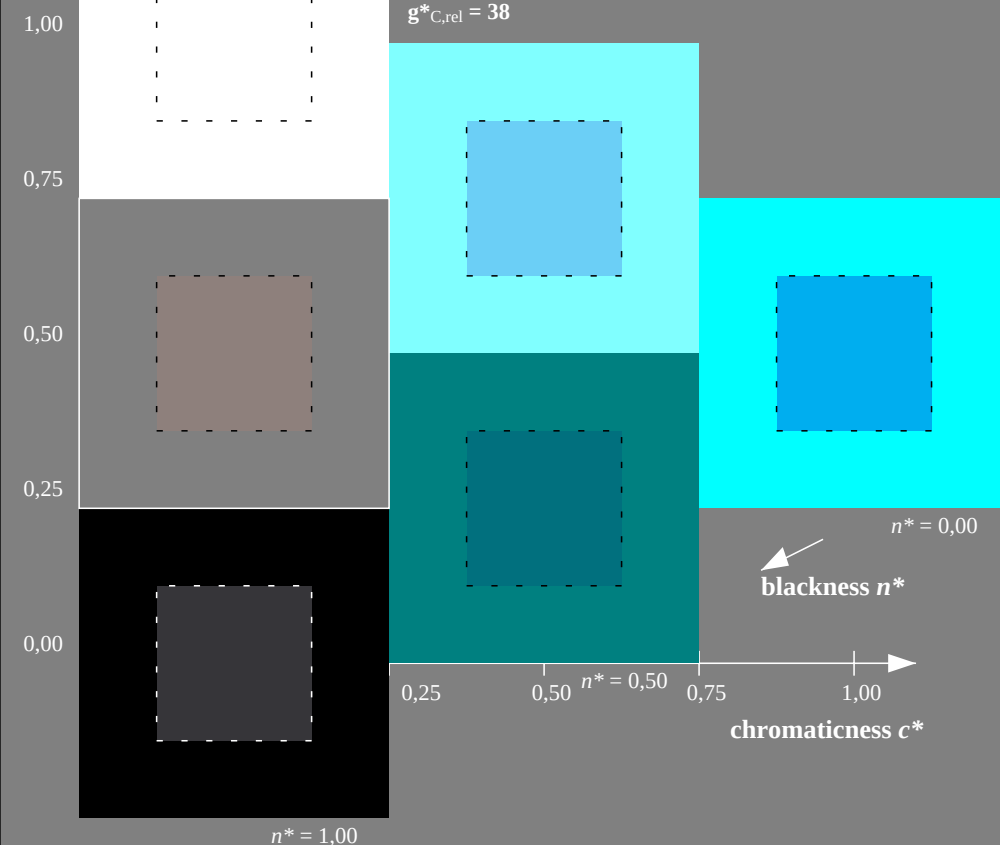
% Gamut

$$u_{\text{rel}}^* = 115$$

%Regularity

$$g^*_{H,rel} = 28$$
$$g^*_{C,rel} = 38$$

FRS06; adapted (a) CIELAB data					
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 232/360 = 0.644 (left)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06

D65: 3 and 5 step colour scales for 10 hues

Output: Colorimetric Printer Reflective System FRS06

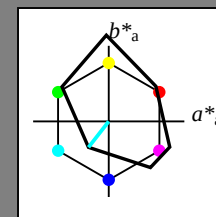
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for hue  $h^* = lab^*h = 232/360 = 0.644$ 
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lab*tch and lab*nch

D65: hue C

LCH*Ma: 48 43 232

olv*Ma: 0.0 1.0 1.0

triangle lightness t^* 

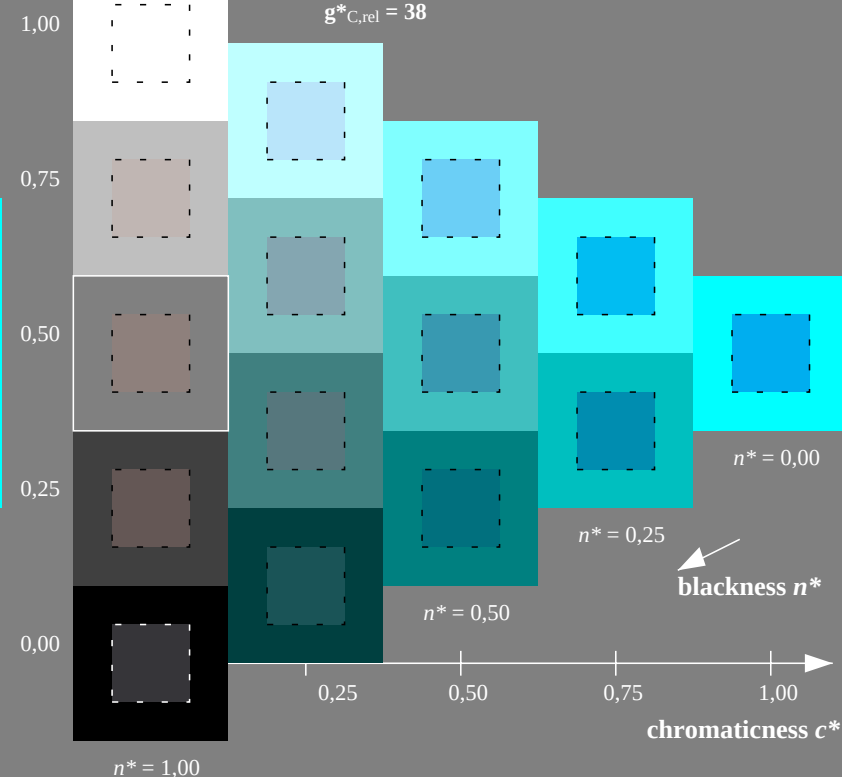
% Gamut

$$\mathbf{u}_{\text{rel}}^* = 115$$

%Regularity

$$g^*_{H,rel} = 28$$
$$g^*_{C,rel} = 38$$

FRS06; adapted (a) CIELAB data					
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



5 step scales for constant CIELAB hue 232/360 = 0.644 (right)

input: *cmy0-center*, *rgb-background*

output: no change compared to input

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = \text{lab}^*h = 337/360 = 0.937$

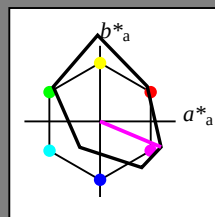
lab^*ich and lab^*nch

D65: hue M

LCH*Ma: 35 88 337

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut
 $u^*_{\text{rel}} = 115$
% Regularity
 $g^*_{H,\text{rel}} = 28$
 $g^*_{C,\text{rel}} = 38$

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
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M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = \text{lab}^*h = 337/360 = 0.937$

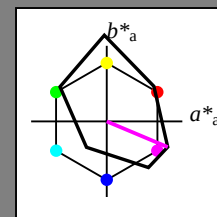
lab^*ich and lab^*nch

D65: hue M

LCH*Ma: 35 88 337

olv*Ma: 1.0 0.0 1.0

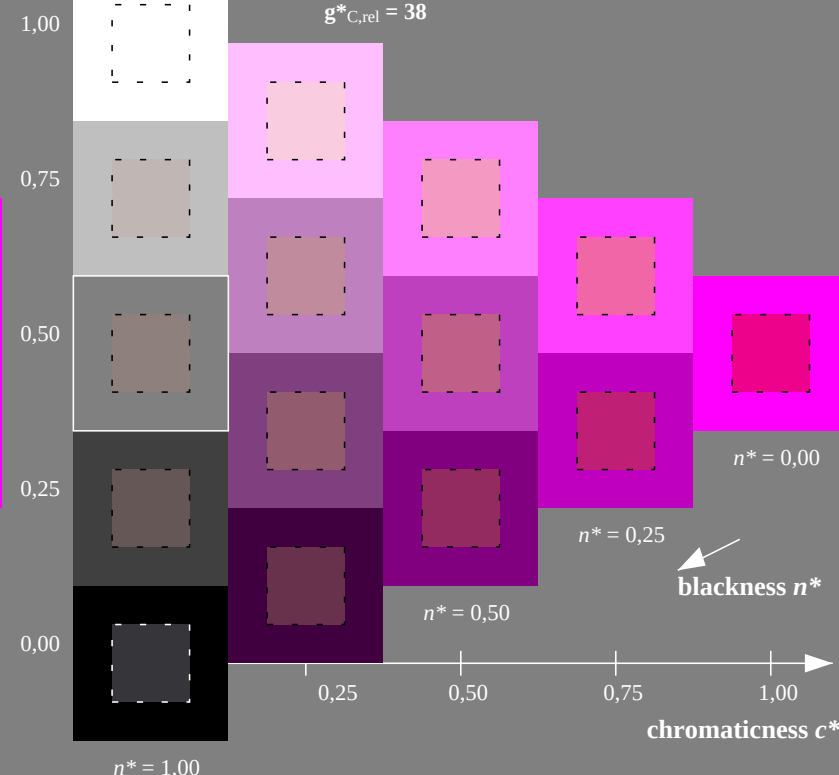
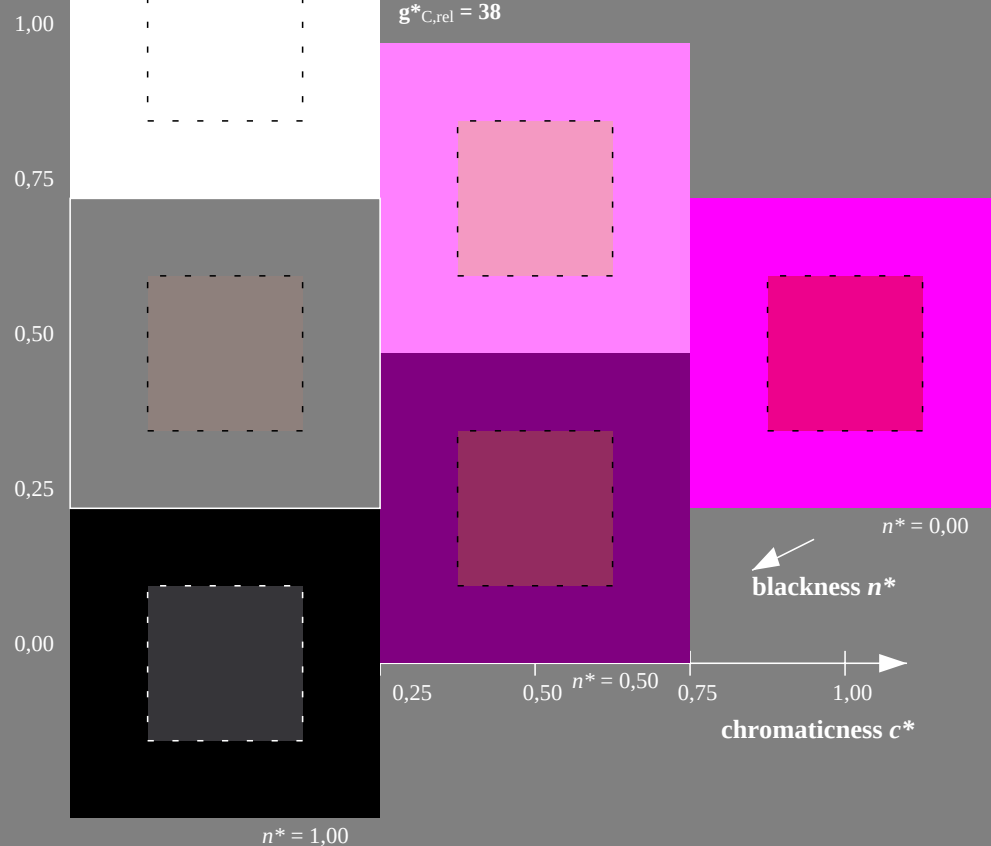
triangle lightness t^*



% Gamut
 $u^*_{\text{rel}} = 115$
% Regularity
 $g^*_{H,\text{rel}} = 28$
 $g^*_{C,\text{rel}} = 38$

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 337/360 = 0.937 (left)

5 step scales for constant CIELAB hue 337/360 = 0.937 (right)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06

D65: 3 and 5 step colour scales for 10 hues

input: cmy0-center , rgb-background

output: no change compared to input

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = \text{lab}^*h = 27/360 = 0.076$

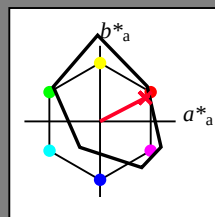
lab^*ich and lab^*nch

D65: hue R

LCH*Ma: 33 73 27

olv*Ma: 1.0 0.0 0.16

triangle lightness t^*



% Gamut
 $u^*_{\text{rel}} = 115$
% Regularity
 $g^*_{H,\text{rel}} = 28$
 $g^*_{C,\text{rel}} = 38$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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L _{Ma}	39.43	-61.79	45.84	76.95	143
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G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = \text{lab}^*h = 27/360 = 0.076$

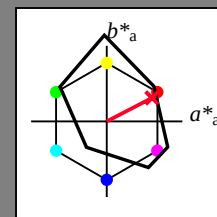
lab^*ich and lab^*nch

D65: hue R

LCH*Ma: 33 73 27

olv*Ma: 1.0 0.0 0.16

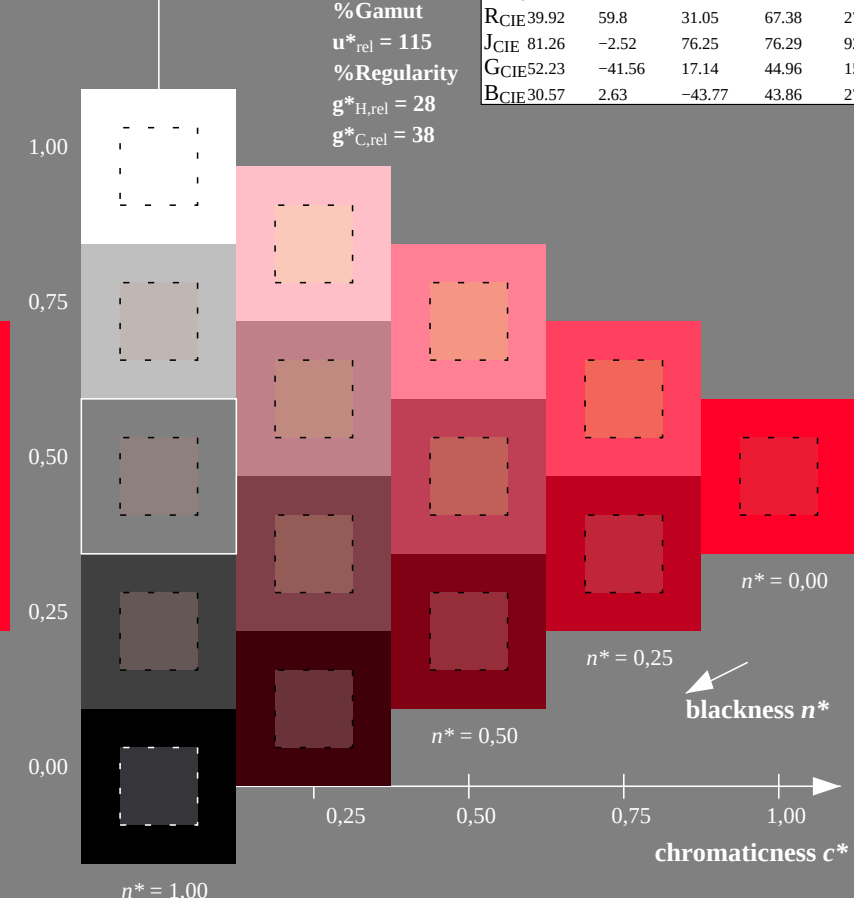
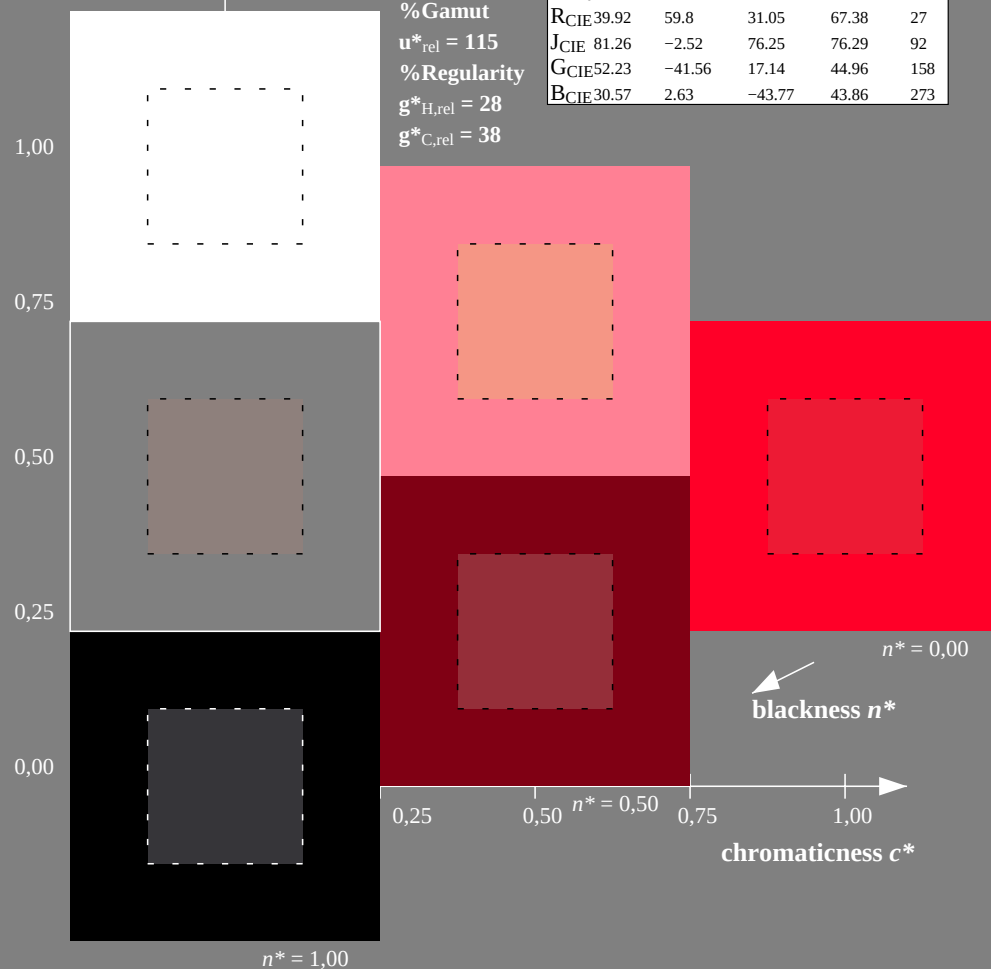
triangle lightness t^*



% Gamut
 $u^*_{\text{rel}} = 115$
% Regularity
 $g^*_{H,\text{rel}} = 28$
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FRS06; adapted (a) CIELAB data

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L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 27/360 = 0.076 (left)

5 step scales for constant CIELAB hue 27/360 = 0.076 (right)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06

D65: 3 and 5 step colour scales for 10 hues

input: *cmY0-center, rgb-background*

output: no change compared to input

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 92/360 = 0.255$

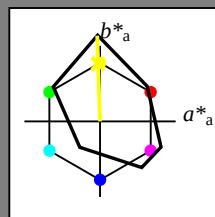
lab^*ich and lab^*nch

D65: hue J

LCH*Ma: 82 113 92

olv*Ma: 0.99 1.0 0.0

triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 92/360 = 0.255$

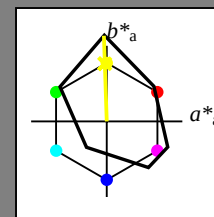
lab^*ich and lab^*nch

D65: hue J

LCH*Ma: 82 113 92

olv*Ma: 0.99 1.0 0.0

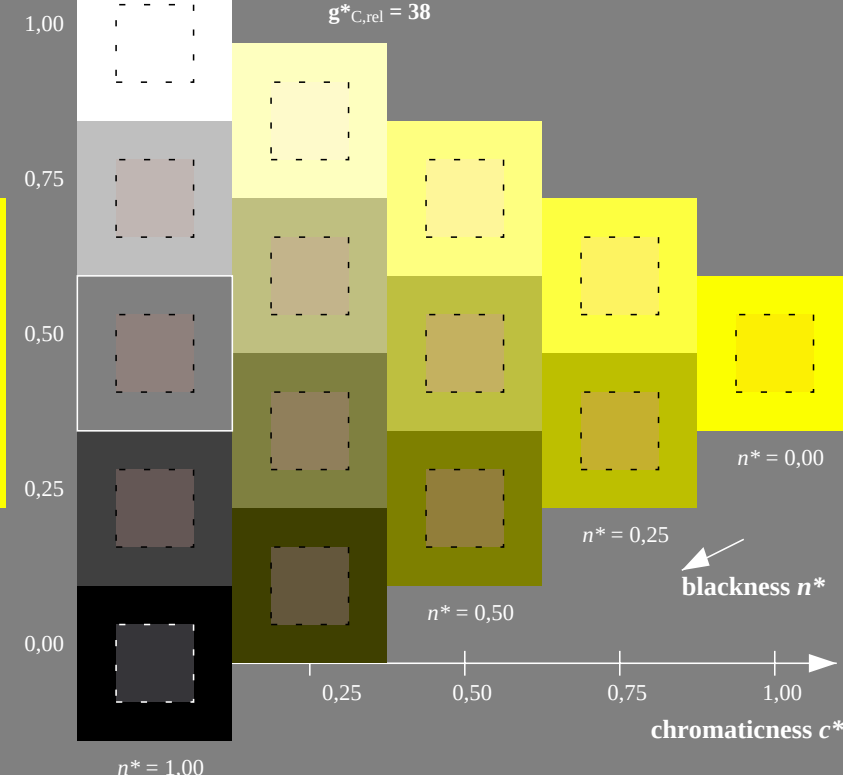
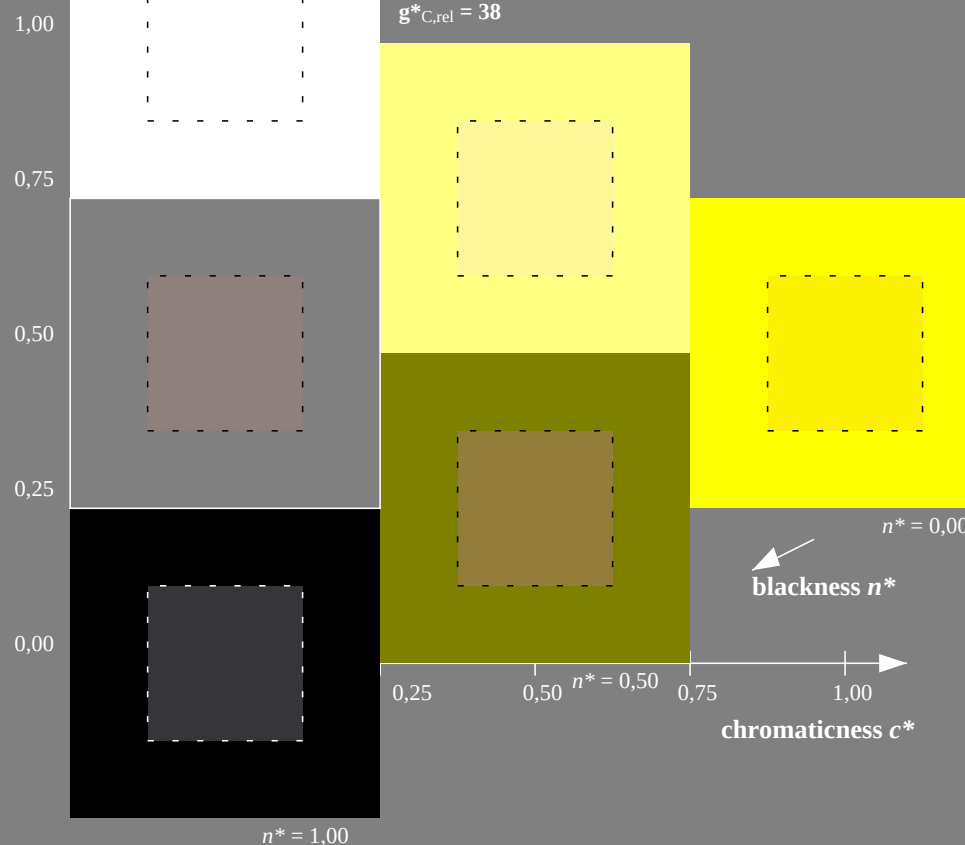
triangle lightness t^*



% Gamut
 $u^*_{rel} = 115$
% Regularity
 $g^*_{H,rel} = 28$
 $g^*_{C,rel} = 38$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06
D65: 3 and 5 step colour scales for 10 hues

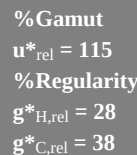
input: $cmy0$ -center, rgb -background
output: no change compared to input

olv*Ma: 0.0 1.0 0.31

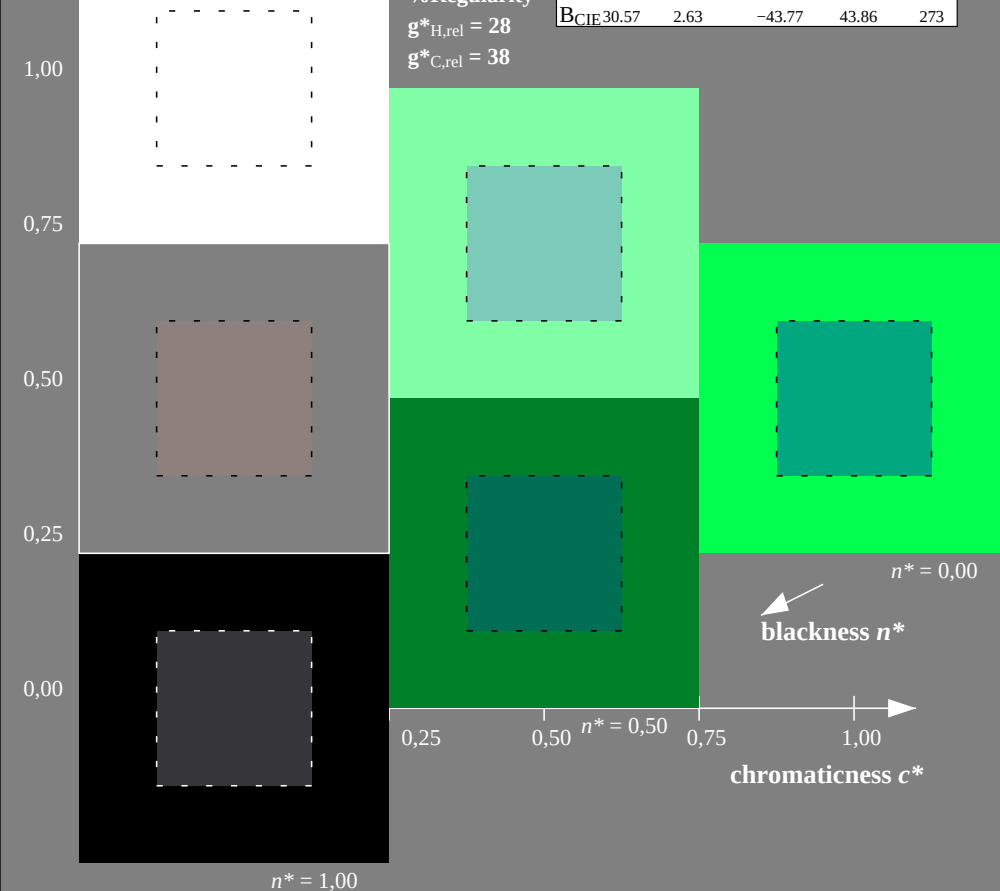
100

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FRS06; adapted (a)		CIELAB data			
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



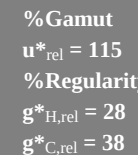
BAM-test chart XE60; Colorimetric calibration target with four grayscale patches.

D65: 3 and 5 step colour scales for 10 hues

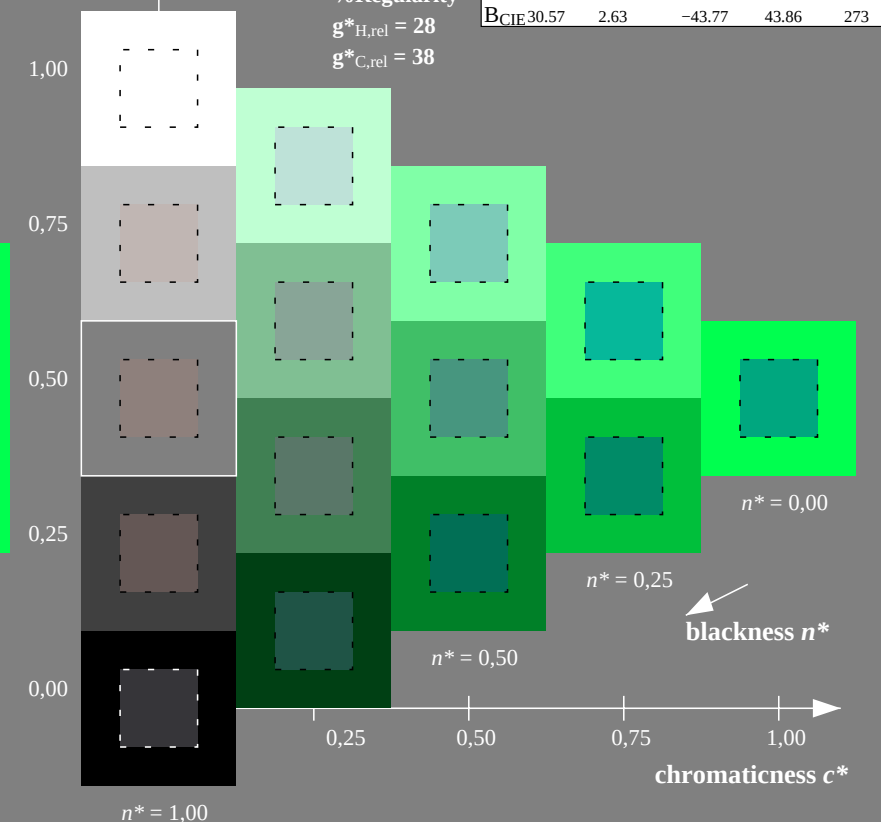
olv*Ma: 0.0 1.0 0.31

100

[illegible]



FRS06; adapted (a)		CIELAB data			
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	-3.16	113.99	114.03	92
L_{Ma}	39.43	-61.79	45.84	76.95	143
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M_{Ma}	34.5	80.68	-33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	-2.52	76.25	76.29	92
G_{CIE}	52.23	-41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	-43.77	43.86	273

FRS06 input: *cmy0-center*, *rgb-background*

output: no change compared to input

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application for evaluation and measurement of printer or monitor systems
/XE60/ Form 9/10 Serie

BAM material: code=rha4ta
r systems

Input: Colorimetric Printer Reflective System FRS06

for hue $h^* = \text{lab}^*h = 273/360 = 0.76$

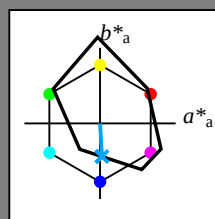
lab^*ich and lab^*nch

D65: hue B

LCH*Ma: 34 44 273

olv*Ma: 0.0 0.64 1.0

triangle lightness t^*



% Gamut
 $u^*_{\text{rel}} = 115$
% Regularity
 $g^*_{H,\text{rel}} = 28$
 $g^*_{C,\text{rel}} = 38$

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
C _{Ma}	47.86	-26.79	-34.24	43.49	232
V _{Ma}	10.16	55.12	-61.03	82.24	312
M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = \text{lab}^*h = 273/360 = 0.76$

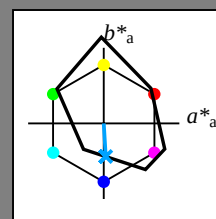
lab^*ich and lab^*nch

D65: hue B

LCH*Ma: 34 44 273

olv*Ma: 0.0 0.64 1.0

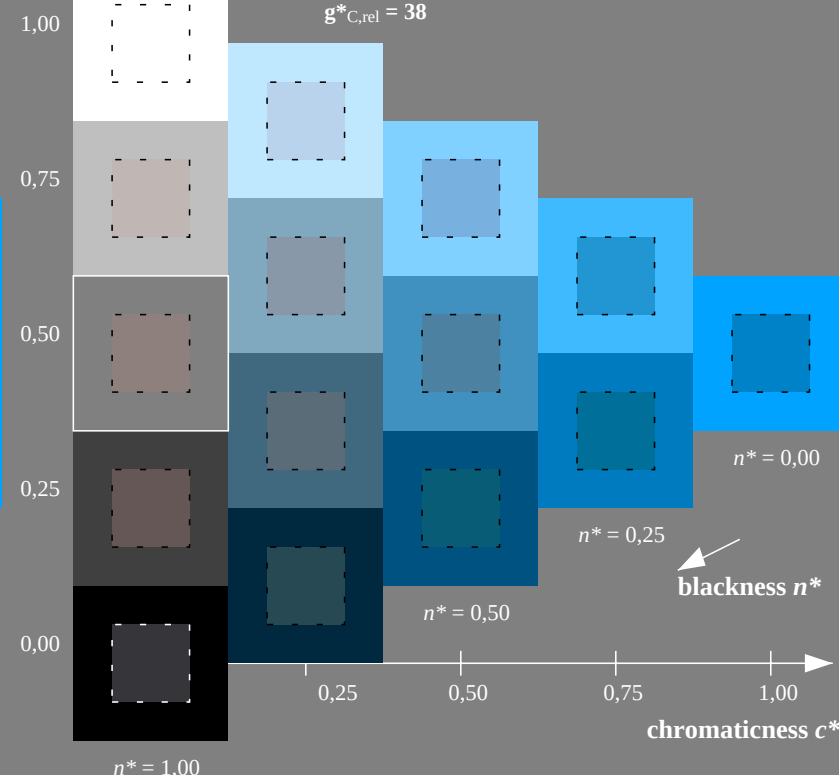
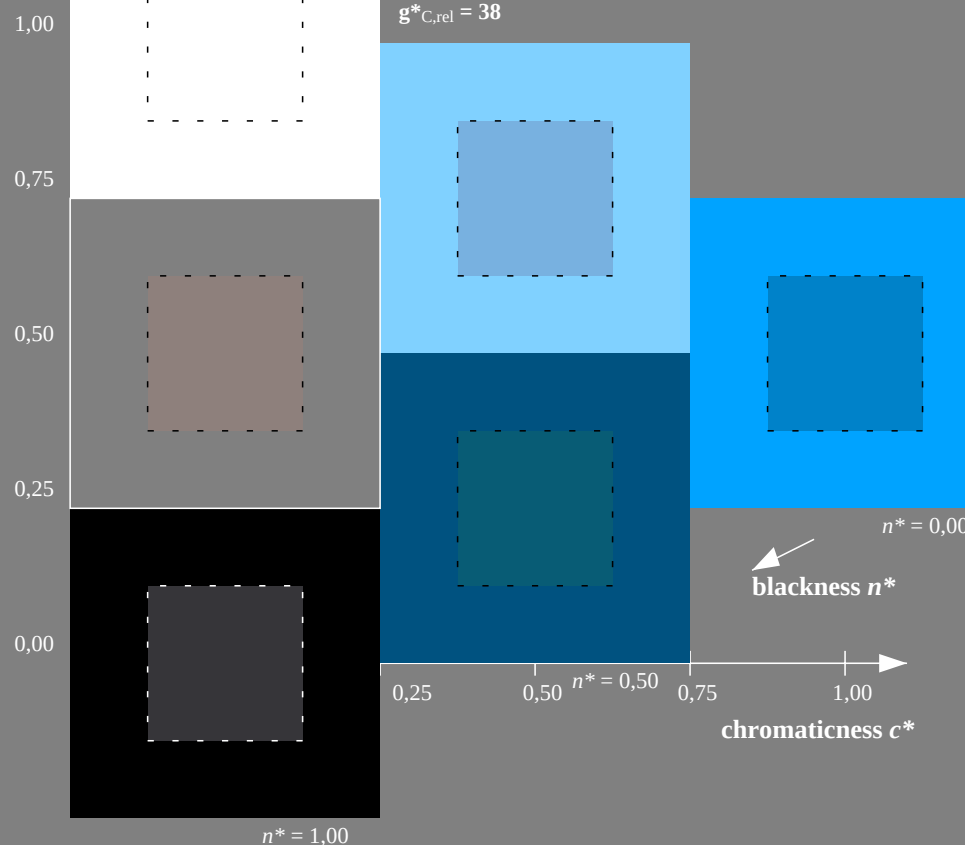
triangle lightness t^*



% Gamut
 $u^*_{\text{rel}} = 115$
% Regularity
 $g^*_{H,\text{rel}} = 28$
 $g^*_{C,\text{rel}} = 38$

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	32.57	62.32	46.49	77.75	37
Y _{Ma}	82.73	-3.16	113.99	114.03	92
L _{Ma}	39.43	-61.79	45.84	76.95	143
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M _{Ma}	34.5	80.68	-33.92	87.52	337
N _{Ma}	6.25	0.0	0.0	0.0	0
W _{Ma}	91.97	0.0	0.0	0.0	0
R _{CIE}	39.92	59.8	31.05	67.38	27
J _{CIE}	81.26	-2.52	76.25	76.29	92
G _{CIE}	52.23	-41.56	17.14	44.96	158
B _{CIE}	30.57	2.63	-43.77	43.86	273



XE600-7, 3 step scales for constant CIELAB hue 273/360 = 0.76 (left)

5 step scales for constant CIELAB hue 273/360 = 0.76 (right)

BAM-test chart XE60; Colorimetric systems FRS06 & FRS06

D65: 3 and 5 step colour scales for 10 hues

input: *cmY0-center, rgb-background*

output: no change compared to input