

Input: Colorimetric Natural Reflective System CNS18

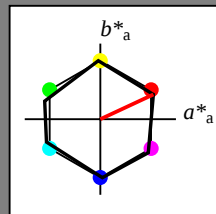
for hue $h^* = lab \cdot h = 25/360 = 0.069$

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.0 0.0



CNS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50B _{Ma}	56.7	-71.24	-30.23	77.4	203
B _{Ma}	56.7	2.7	-77.34	77.4	272
B50R _{Ma}	56.7	63.4	-44.38	77.4	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

CIELAB lightness L^*

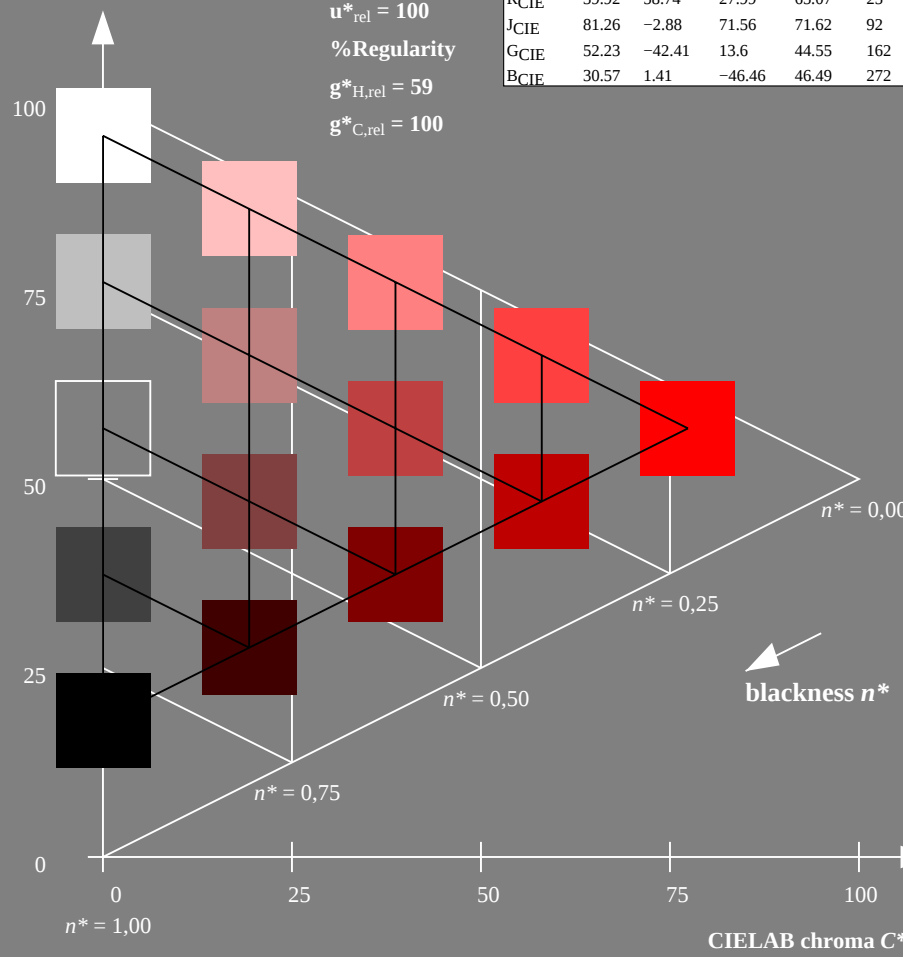
% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$



VE330-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

Output: Colorimetric Printer Reflective System FRS06

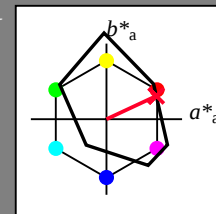
for hue $h^* = lab \cdot h = 25/360 = 0.069$

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 33 73 25

olv*Ma: 1.0 0.0 0.2



FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	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
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273

CIELAB lightness L^*

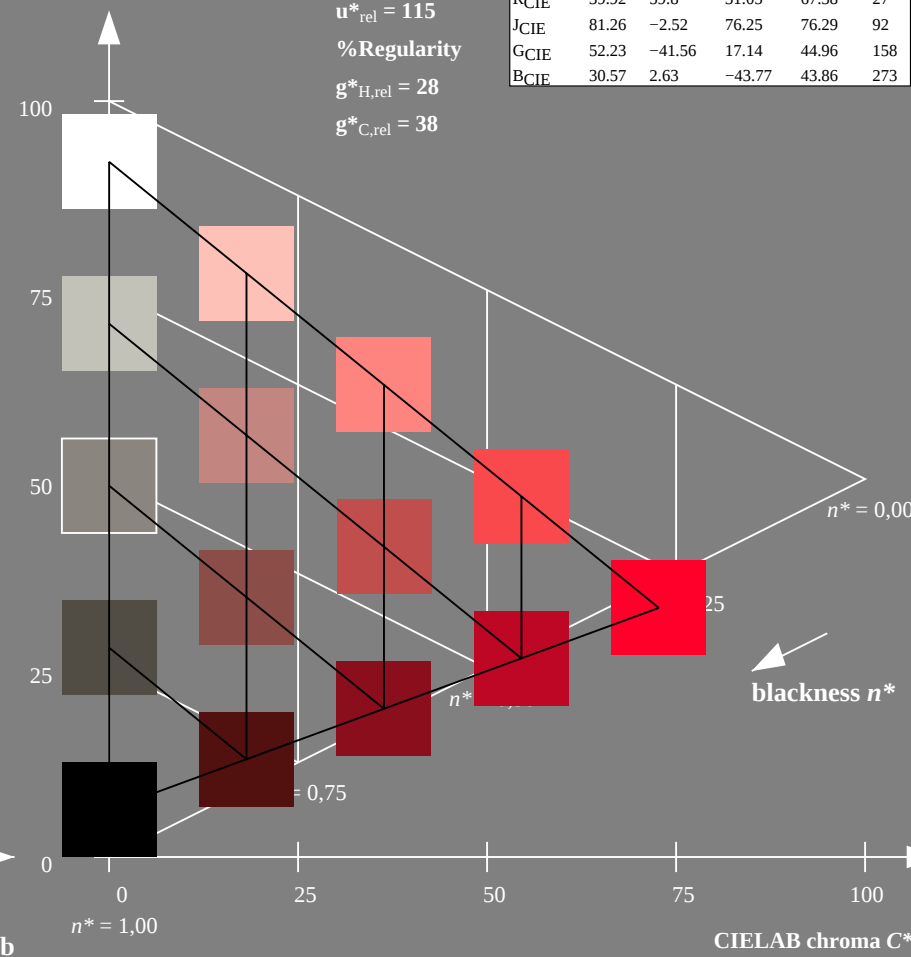
% Gamut

$u^*_{rel} = 115$

% Regularity

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

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



5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

Input: Colorimetric Natural Reflective System CNS18

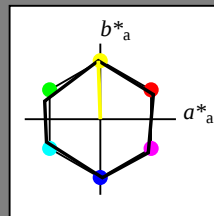
for hue $h^* = lab \cdot h = 92/360 = 0.256$

LAB*LCH, LAB*NCH

D65: hue J

LCH*Ma: 57 77 92

olv*Ma: 1.0 1.0 0.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

CIELAB lightness L^*

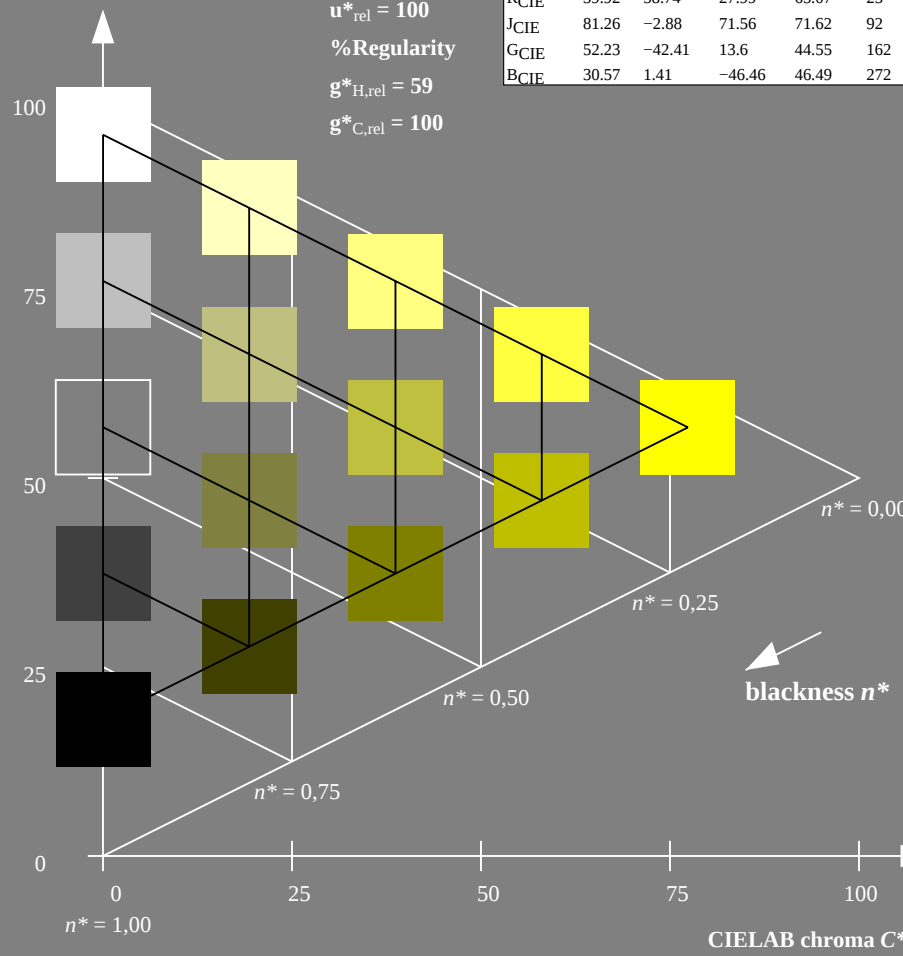
% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$



VE330-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)



BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Printer Reflective System FRS06

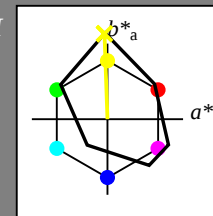
for hue $h^* = lab \cdot h = 92/360 = 0.256$

LAB*LCH, LAB*NCH

D65: hue J

LCH*Ma: 82 113 92

olv*Ma: 0.99 1.0 0.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	34.5	80.68	-33.92	87.52	337
NMa	6.25	0.0	0.0	0.0	0
WMa	91.97	0.0	0.0	0.0	0
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273

CIELAB lightness L^*

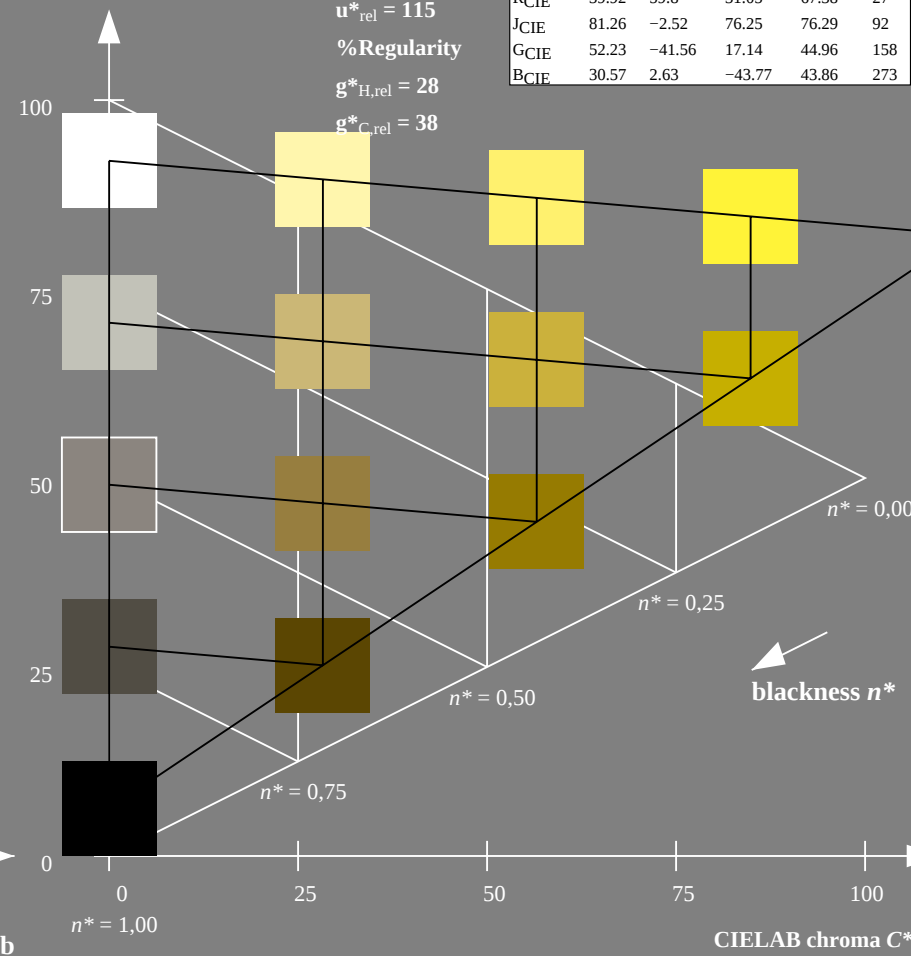
% Gamut

$u^*_{rel} = 115$

% Regularity

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

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



5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor



Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab \cdot h = 162/360 = 0.45$

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 57 77 162

olv*Ma: 0.0 1.0 0.0

CIELAB lightness L^*

% Gamut

$u^*_{rel} = 100$

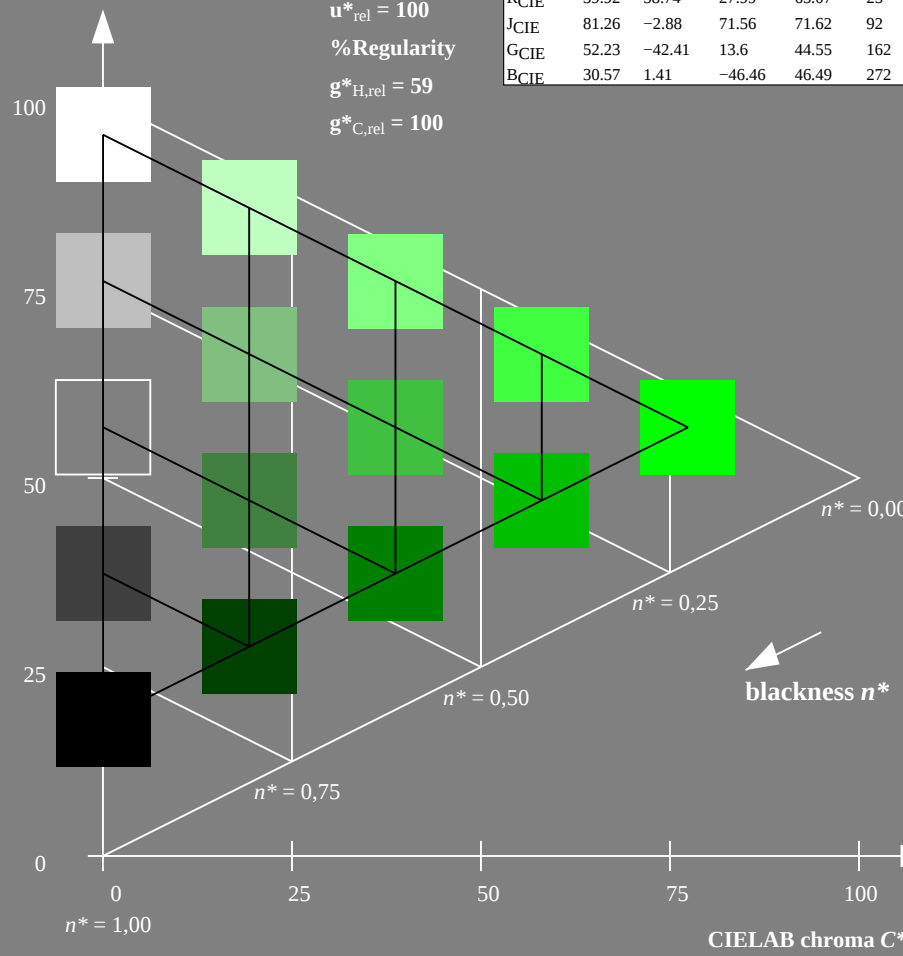
% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$

CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50B _{Ma}	56.7	-71.24	-30.23	77.4	203
B _{Ma}	56.7	2.7	-77.34	77.4	272
B50R _{Ma}	56.7	63.4	-44.38	77.4	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272



VE330-7, 5 step scales for constant CIELAB hue 162/360 = 0.45 (left)

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab \cdot h = 162/360 = 0.45$

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 43 51 162

olv*Ma: 0.0 1.0 0.37

CIELAB lightness L^*

% Gamut

$u^*_{rel} = 115$

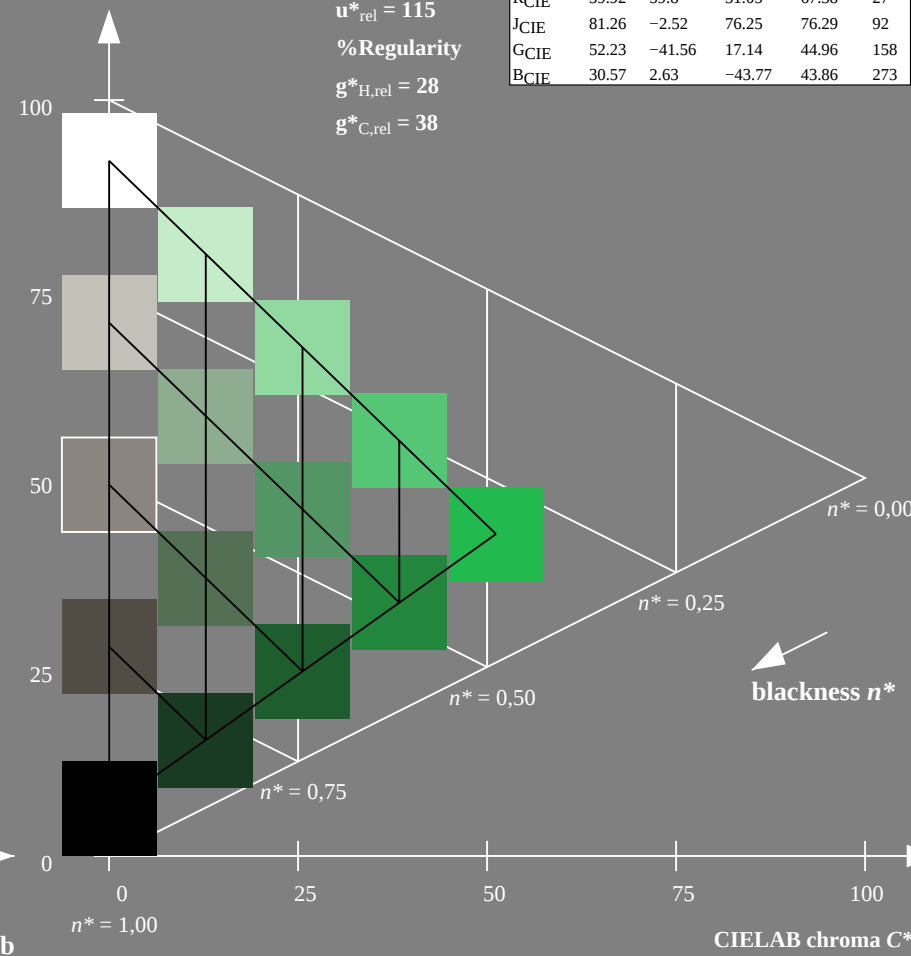
% Regularity

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

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

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	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
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273



5 step scales for constant CIELAB hue 162/360 = 0.45 (right)

BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab \cdot h = 203/360 = 0.564$

LAB*LCH, LAB*NCH

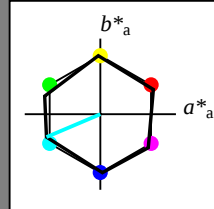
D65: hue G50B

LCH*Ma: 57 77 203

olv*Ma: 0.0 1.0 1.0

CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50B _{Ma}	56.7	-71.24	-30.23	77.4	203
B _{Ma}	56.7	2.7	-77.34	77.4	272
B50R _{Ma}	56.7	63.4	-44.38	77.4	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272



CIELAB lightness L^*

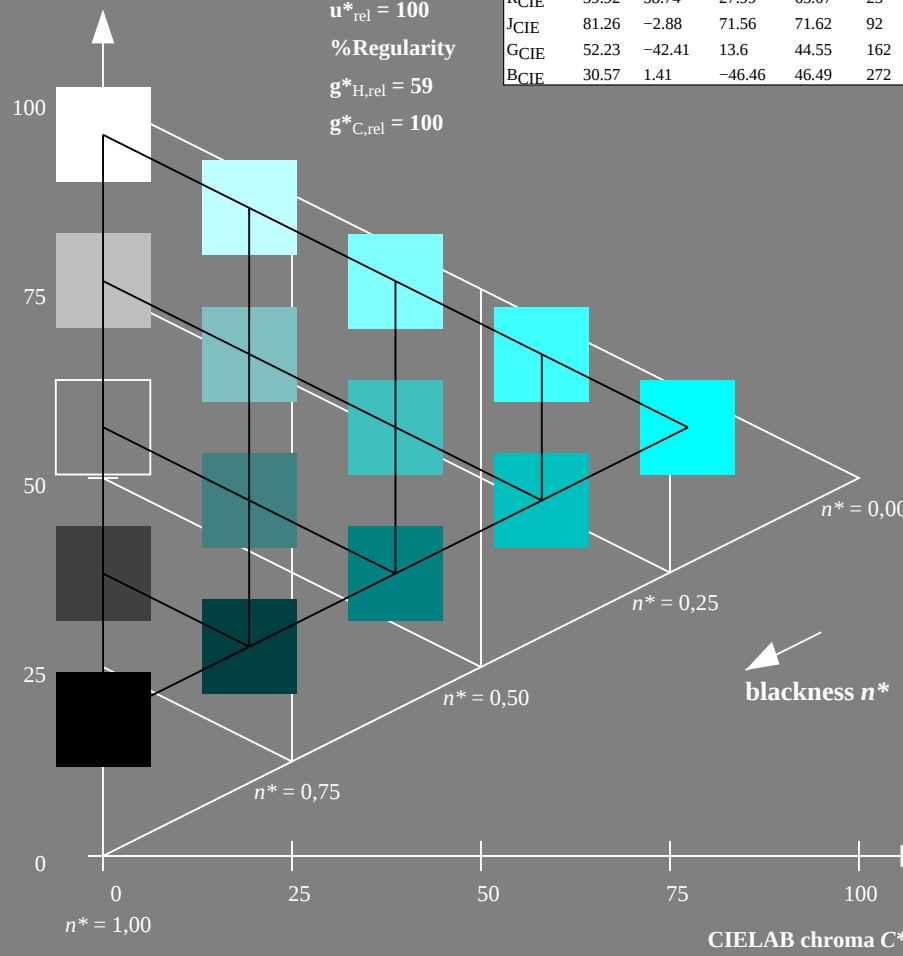
% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$



VE330-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)



BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab \cdot h = 203/360 = 0.564$

LAB*LCH, LAB*NCH

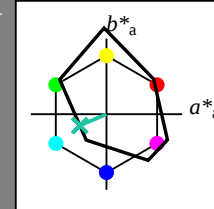
D65: hue G50B

LCH*Ma: 46 38 203

olv*Ma: 0.0 1.0 0.76

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	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
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273



CIELAB lightness L^*

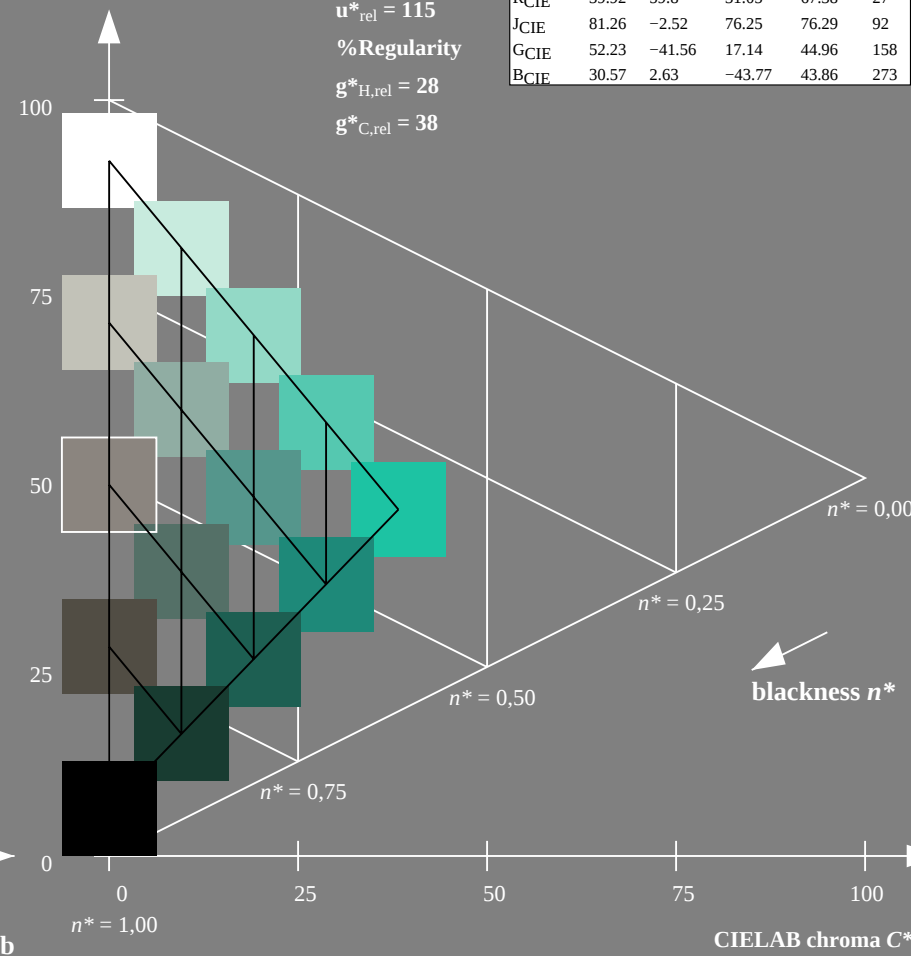
% Gamut

$u^*_{rel} = 115$

% Regularity

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

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



5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor



Input: Colorimetric Natural Reflective System CNS18

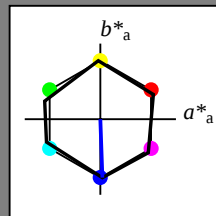
for hue $h^* = lab \cdot h = 272/360 = 0.756$

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 57 77 272

olv*Ma: 0.0 0.0 1.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

CIELAB lightness L^*

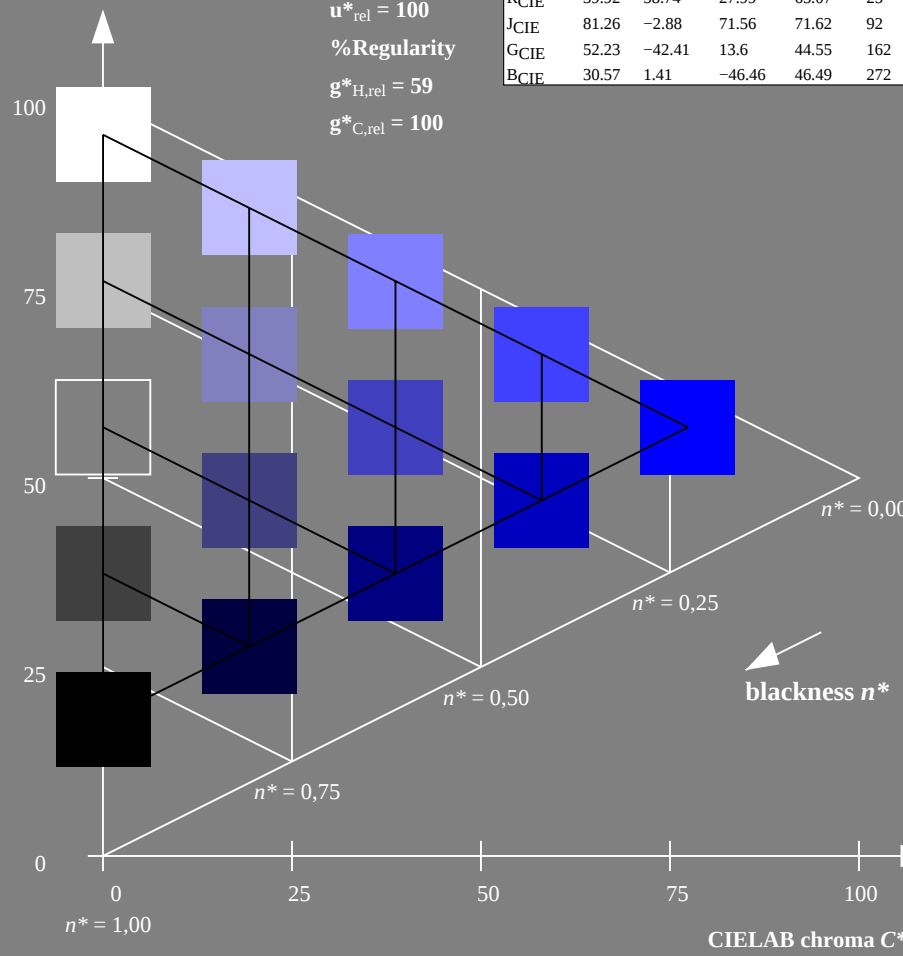
% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$



VE330-7, 5 step scales for constant CIELAB hue $272/360 = 0.756$ (left)

Output: Colorimetric Printer Reflective System FRS06

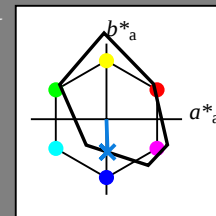
for hue $h^* = lab \cdot h = 272/360 = 0.756$

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 35 44 272

olv*Ma: 0.0 0.65 1.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	34.5	80.68	-33.92	87.52	337
NMa	6.25	0.0	0.0	0.0	0
WMa	91.97	0.0	0.0	0.0	0
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273

CIELAB lightness L^*

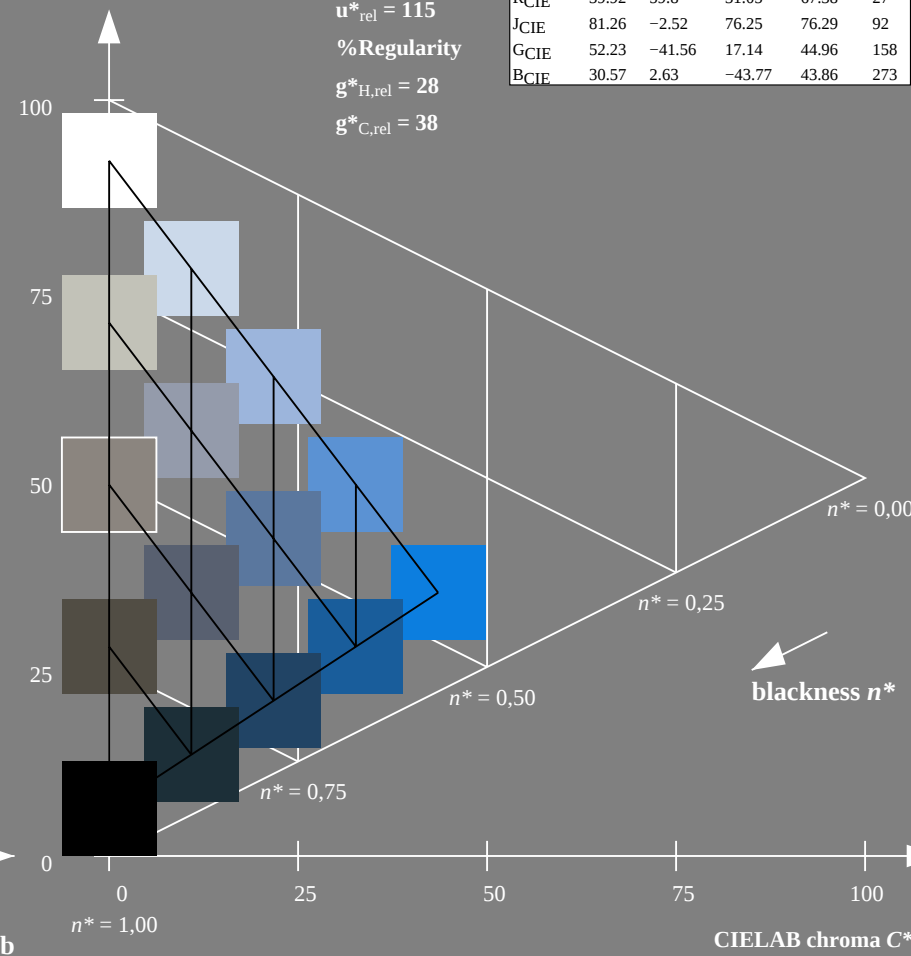
% Gamut

$u^*_{rel} = 115$

% Regularity

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

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



5 step scales for constant CIELAB hue $272/360 = 0.756$ (right)

BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab \cdot h = 325/360 = 0.903$

LAB*LCH, LAB*NCH

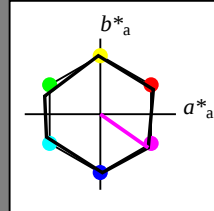
D65: hue B50R

LCH*Ma: 57 77 325

olv*Ma: 1.0 0.0 1.0

CNS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272



CIELAB lightness L^*

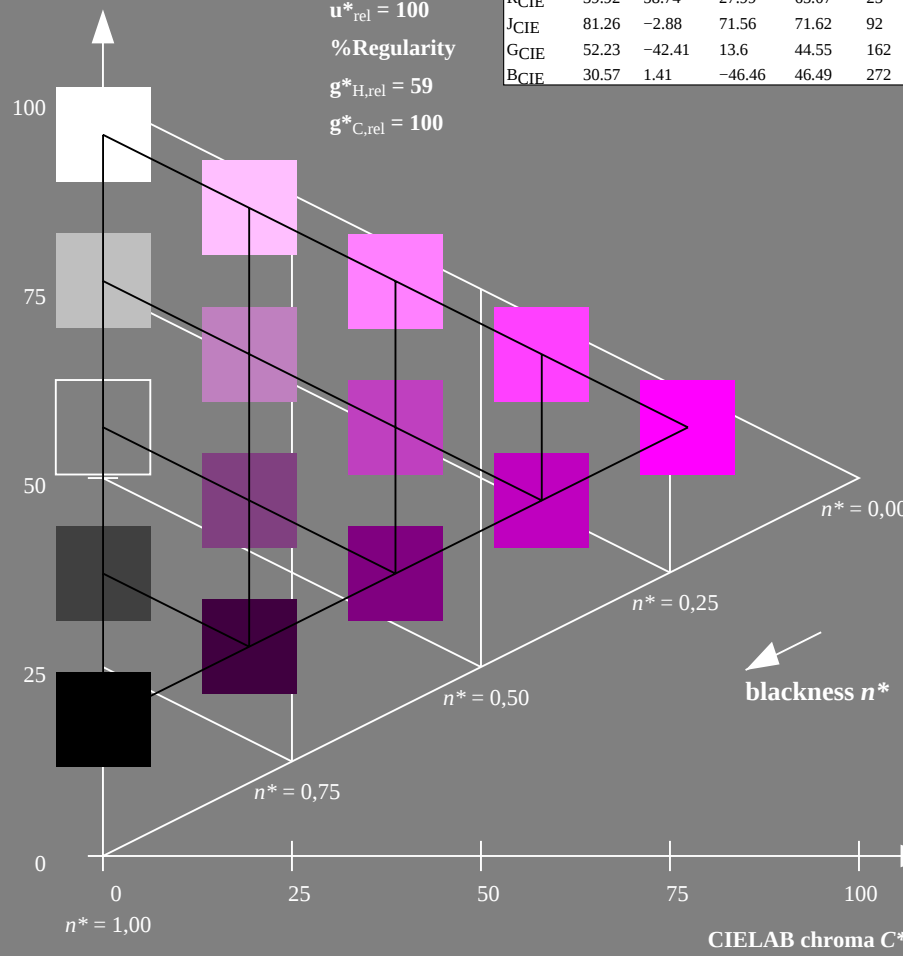
% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$



VE330-7, 5 step scales for constant CIELAB hue 325/360 = 0.903 (left)

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab \cdot h = 325/360 = 0.903$

LAB*LCH, LAB*NCH

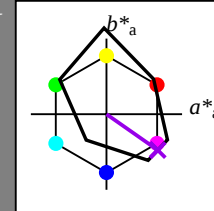
D65: hue B50R

LCH*Ma: 22 83 325

olv*Ma: 0.5 0.0 1.0

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	34.5	80.68	-33.92	87.52	337
NMa	6.25	0.0	0.0	0.0	0
WMa	91.97	0.0	0.0	0.0	0
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273



CIELAB lightness L^*

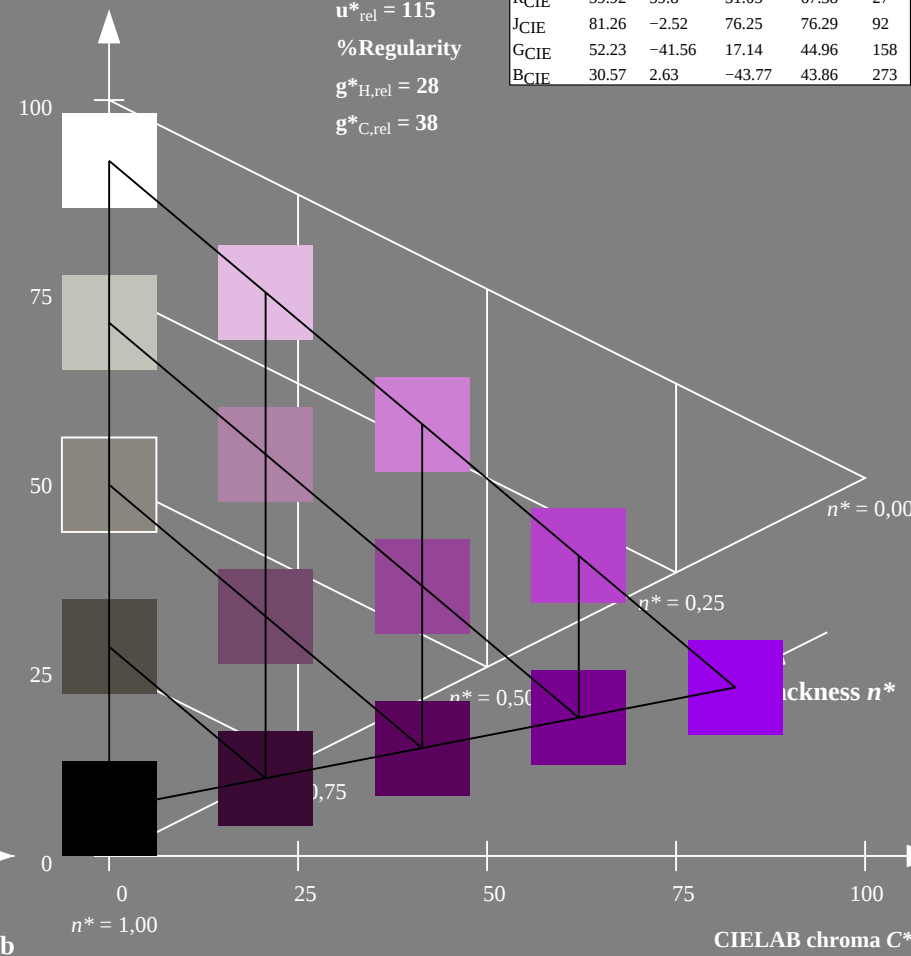
% Gamut

$u^*_{rel} = 115$

% Regularity

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

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



5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab \cdot h = 25/360 = 0.071$

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.01 0.0

CIE LAB lightness L^*

% Gamut

$u^*_{rel} = 100$

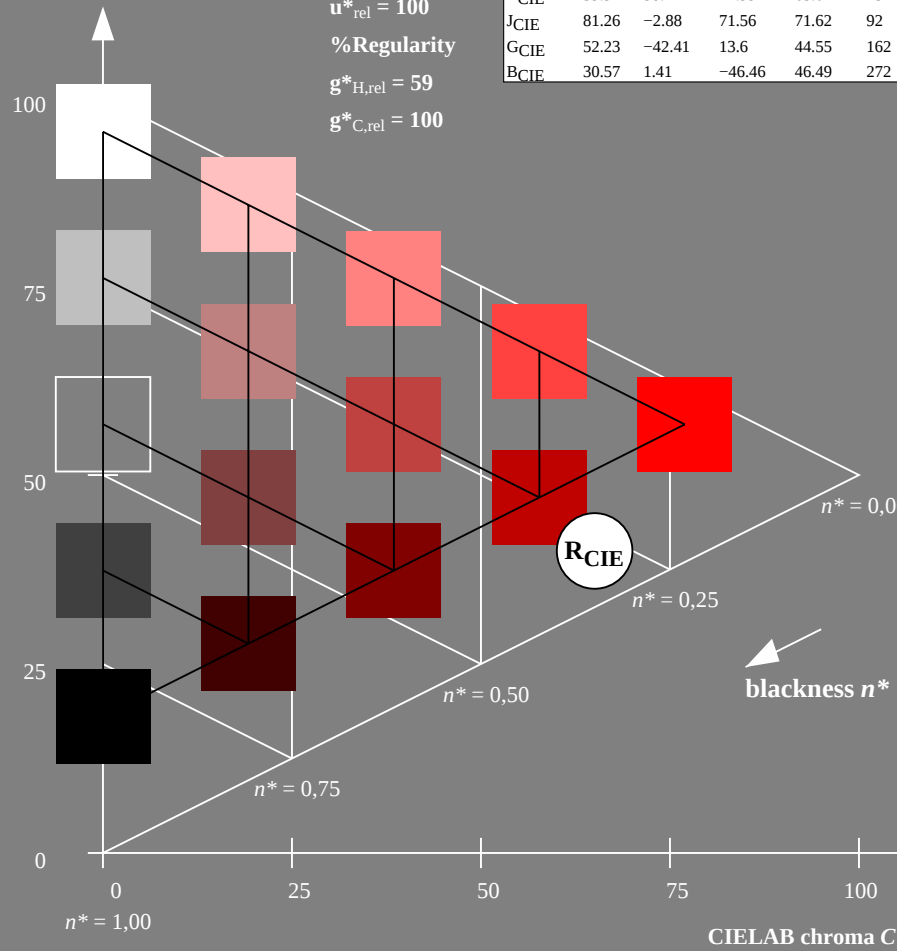
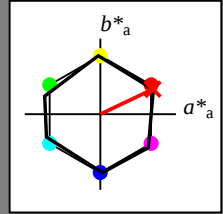
% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$

CNS18; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.15	32.71	77.4	25
J _{Ma}	56.7	-2.69	77.35	77.4	92
G _{Ma}	56.7	-73.6	23.92	77.4	162
G50B _{Ma}	56.7	-71.24	-30.23	77.4	203
B _{Ma}	56.7	2.7	-77.34	77.4	272
B50R _{Ma}	56.7	63.4	-44.38	77.4	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



VE330-7, 5 step scales for constant CIE LAB hue 25/360 = 0.071 (left)

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab \cdot h = 25/360 = 0.071$

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 33 73 25

olv*Ma: 1.0 0.0 0.19

CIE LAB lightness L^*

% Gamut

$u^*_{rel} = 115$

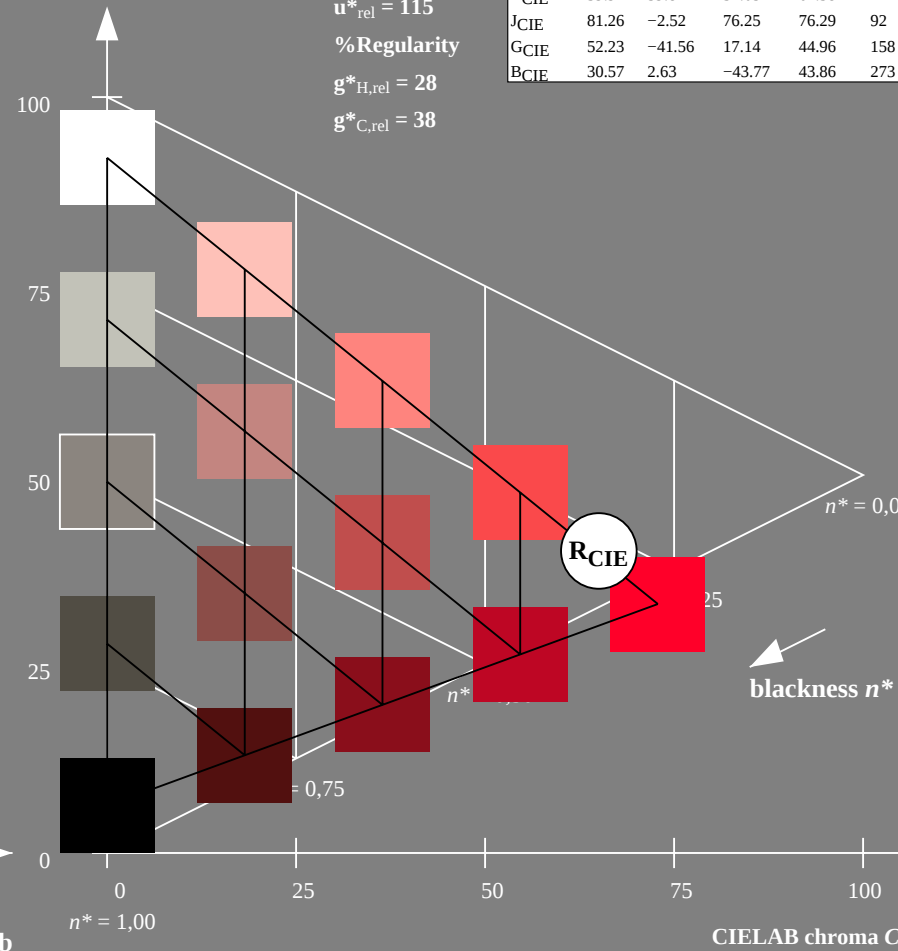
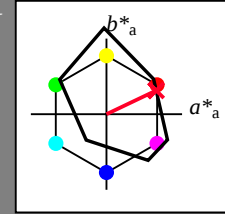
% Regularity

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

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

FRS06; adapted (a) CIE LAB 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



5 step scales for constant CIE LAB hue 25/360 = 0.071 (right)

BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab \cdot h = 92/360 = 0.256$

LAB*LCH, LAB*NCH

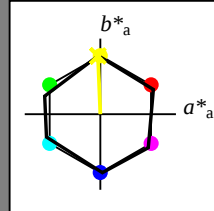
D65: hue J

LCH*Ma: 57 77 92

olv*Ma: 0.99 1.0 0.0

CNS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272



CIELAB lightness L^*

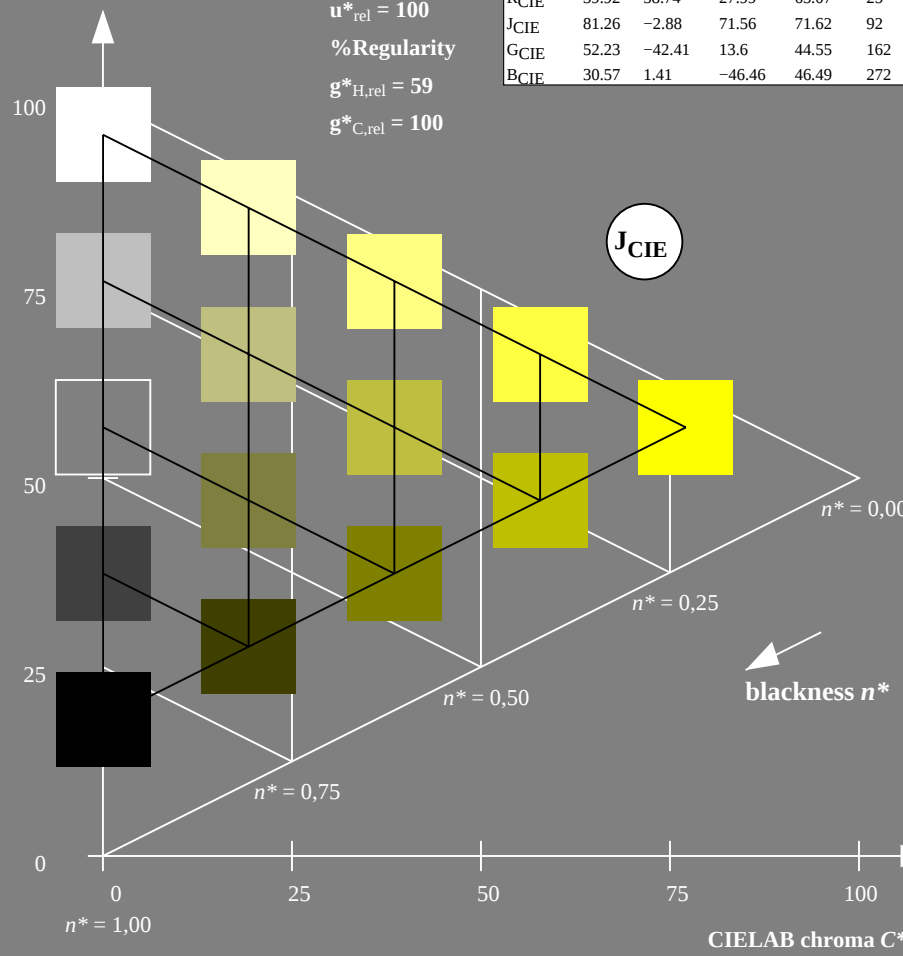
% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$



VE330-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab \cdot h = 92/360 = 0.256$

LAB*LCH, LAB*NCH

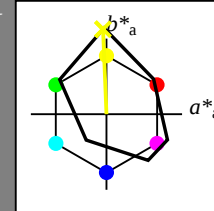
D65: hue J

LCH*Ma: 82 112 92

olv*Ma: 0.98 1.0 0.0

FRS06; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	34.5	80.68	-33.92	87.52	337
NMa	6.25	0.0	0.0	0.0	0
WMa	91.97	0.0	0.0	0.0	0
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273



CIELAB lightness L^*

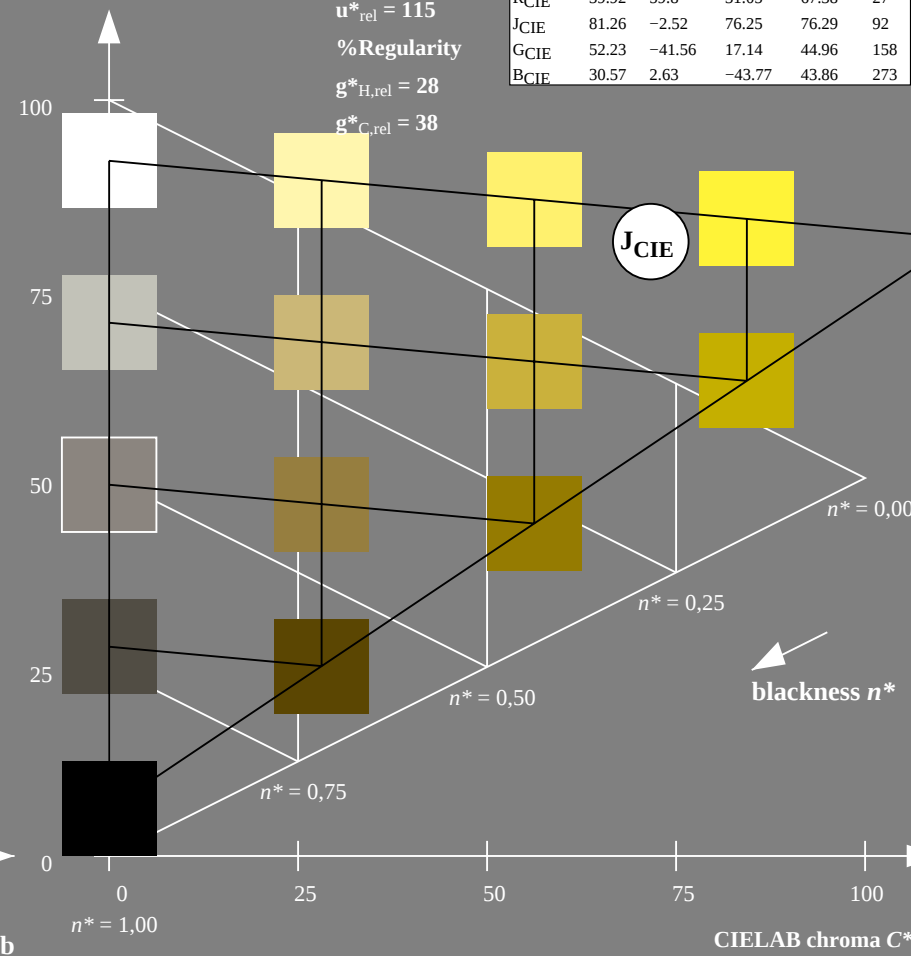
% Gamut

$u^*_{rel} = 115$

% Regularity

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

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



5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab \cdot h = 162/360 = 0.451$

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 57 77 162

olv*Ma: 0.0 1.0 0.01

CIE LAB lightness L^*

% Gamut

$u^*_{rel} = 100$

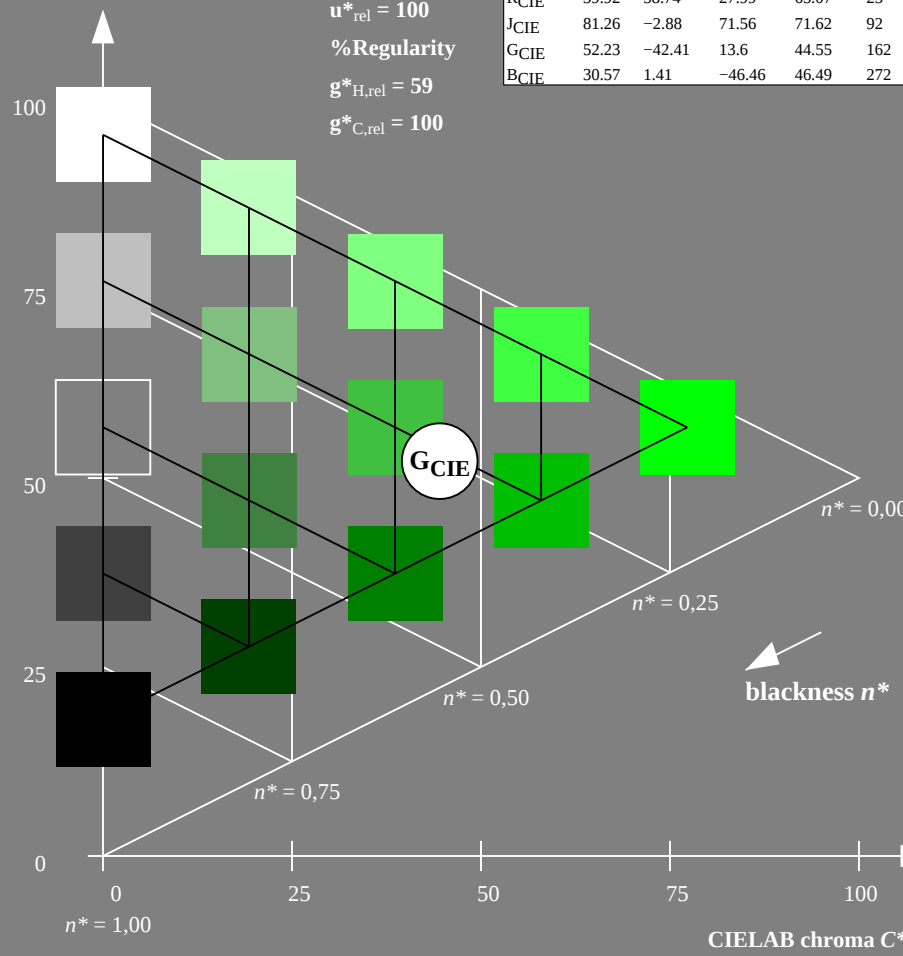
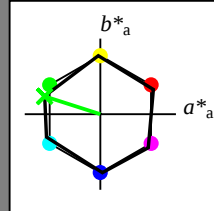
% Regularity

$g^*_{H,rel} = 59$

$g^*_{C,rel} = 100$

CNS18; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272



VE330-7, 5 step scales for constant CIE LAB hue 162/360 = 0.451 (left)

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab \cdot h = 162/360 = 0.451$

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 43 51 162

olv*Ma: 0.0 1.0 0.38

CIE LAB lightness L^*

% Gamut

$u^*_{rel} = 115$

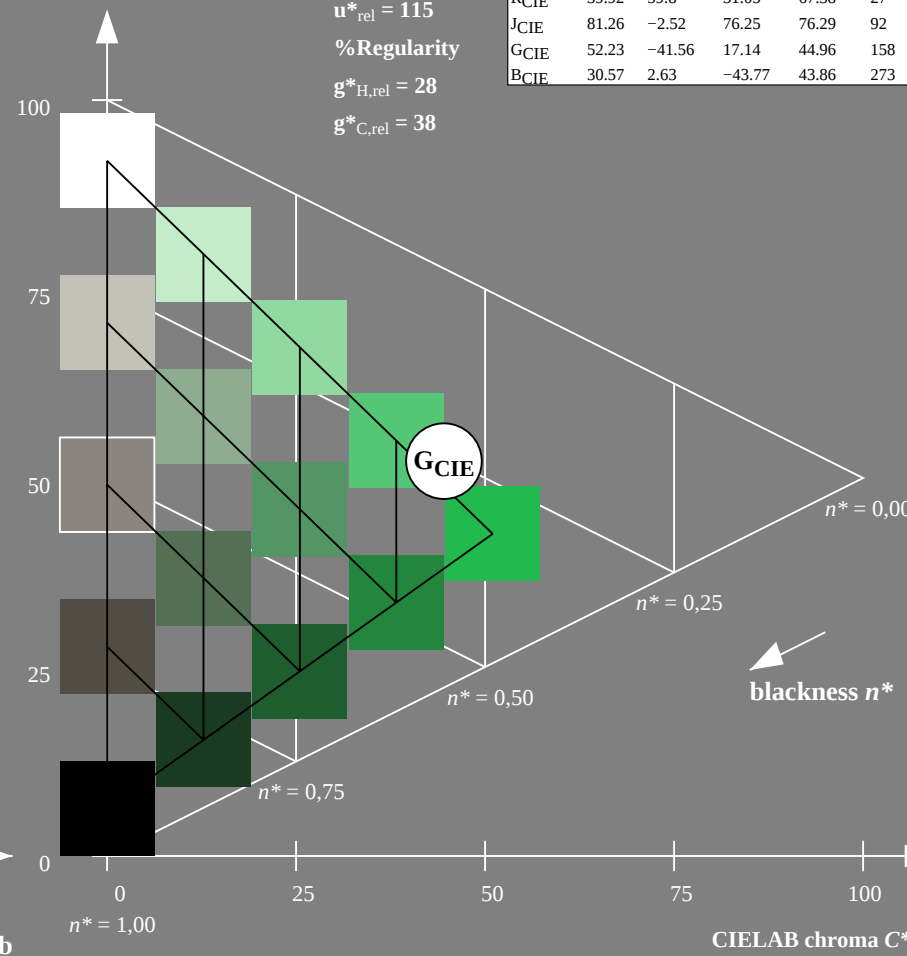
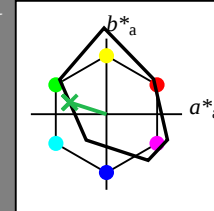
% Regularity

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

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

FRS06; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	34.5	80.68	-33.92	87.52	337
NMa	6.25	0.0	0.0	0.0	0
WMa	91.97	0.0	0.0	0.0	0
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273



5 step scales for constant CIE LAB hue 162/360 = 0.451 (right)

BAM-test chart VE33; Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

Input: Colorimetric Natural Reflective System CNS18

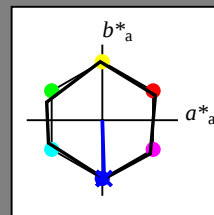
for hue $h^* = lab^*h = 272/360 = 0.755$

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 57 77 272

olv*Ma: 0.0 0.0 1.0



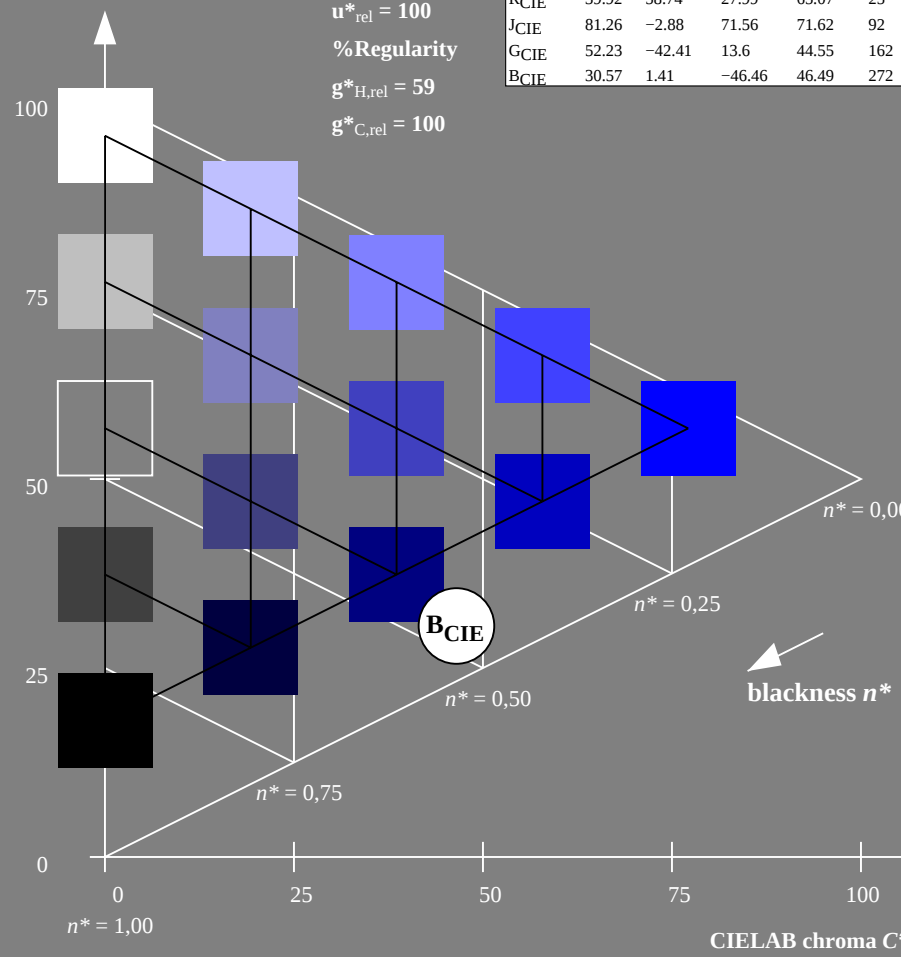
CNS18; adapted (a) CIELAB data					
	L^*_{*a}	a^*_{*a}	b^*_{*a}	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	56.7	70.15	32.71	77.4	25
J _{Ma}	56.7	-2.69	77.35	77.4	92
G _{Ma}	56.7	-73.6	23.92	77.4	162
G50B _{Ma}	56.7	-71.24	-30.23	77.4	203
B _{Ma}	56.7	2.7	-77.34	77.4	272
B50R _{Ma}	56.7	63.4	-44.38	77.4	325
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

CIELAB lightness L^*

% Gamut

$$\mathbf{u}_{rel}^* = 100$$

%Regularity

$$g^*_{H,rel} = 59$$
$$g^*_{C,rel} = 100$$


VE330-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

BAM-test chart VE33: Colorimetric systems CNS18 & FRS06

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Printer Reflective System FRS06

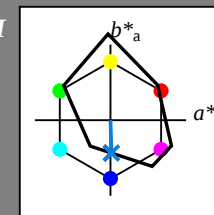
for hue $h^* = lab^*h = 272/360 = 0.755$

*LAB*LCH, LAB*NCH*

D65: hue B

LCH*Ma: 35 43 272

olv*Ma: 0.0 0.66 1.0



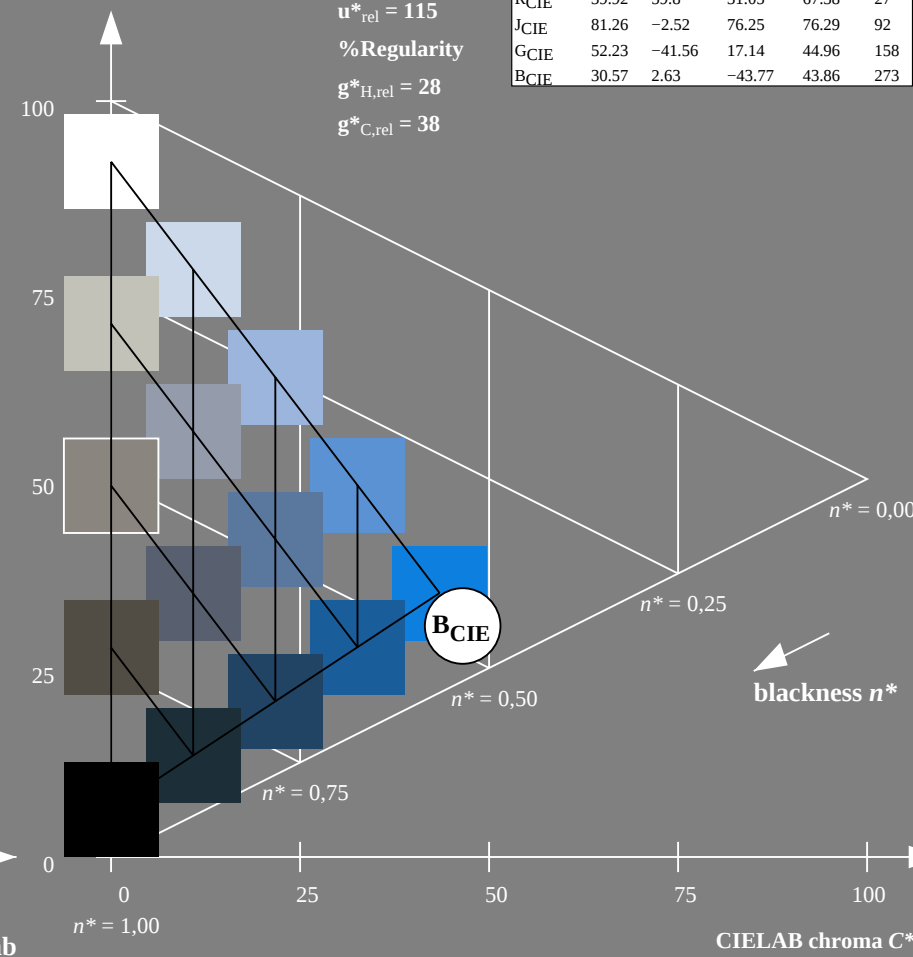
FRS06; adapted (a) CIELAB data					
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	34.5	80.68	-33.92	87.52	337
NMa	6.25	0.0	0.0	0.0	0
WMa	91.97	0.0	0.0	0.0	0
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273

CIELAB lightness L^*

%Gamut

$$\mathbf{u}_{rel}^* = 11$$

%Regularity

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


5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

```
input: olv* setrgbcolor
```

output: *olv** (TRI9) *setrgbcolor*