

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 22/360 = 0.061$

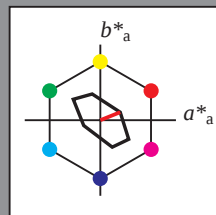
$lab \cdot tch$ and $lab \cdot nch$

D65: hue O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 16$

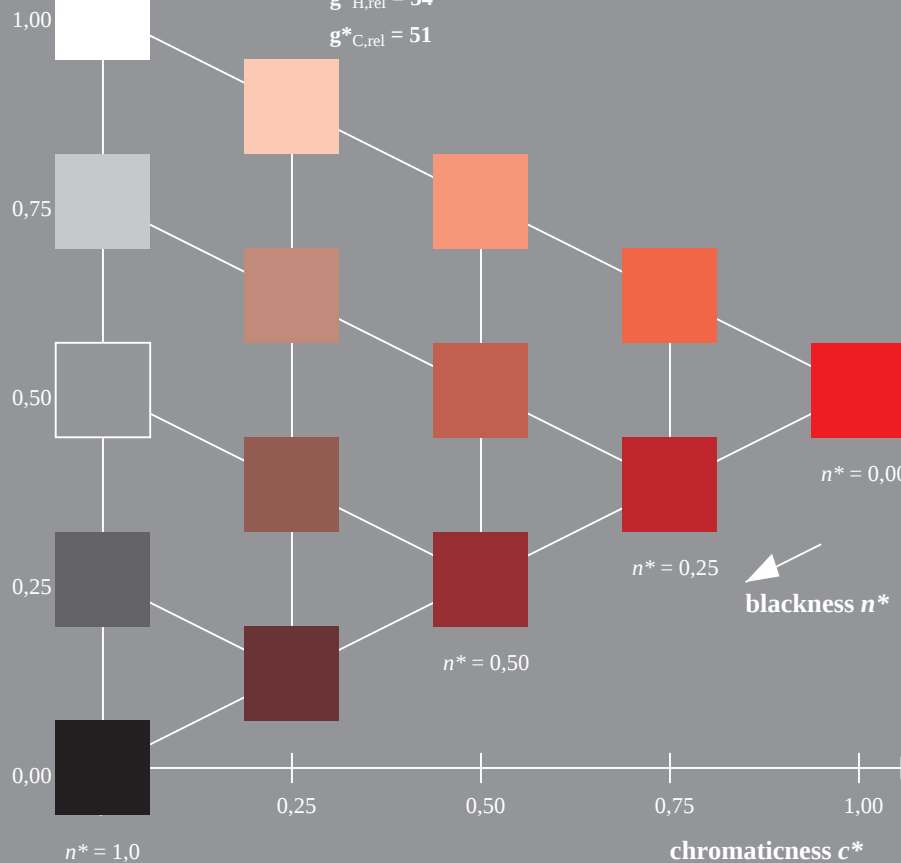
%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	-10.76	34.63	36.27	107
L_m	89.32	-35.8	27.64	45.24	142
C_m	90.93	-21.95	-7.07	23.07	198
V_m	72.1	15.76	-35.63	38.97	294
M_m	78.5	37.52	-25.23	45.22	326
N_m	69.7	0.0	0.0	0.0	0
W_m	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



OE280-7, 5 step scales for constant CIELAB hue 22/360 = 0.061 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 40/360 = 0.111$

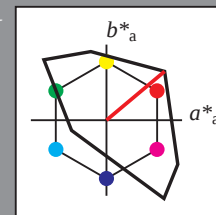
$LAB \cdot LCH$, $LAB \cdot NCH$

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

CIELAB lightness L^*



%Gamut

$u^*_{rel} = 158$

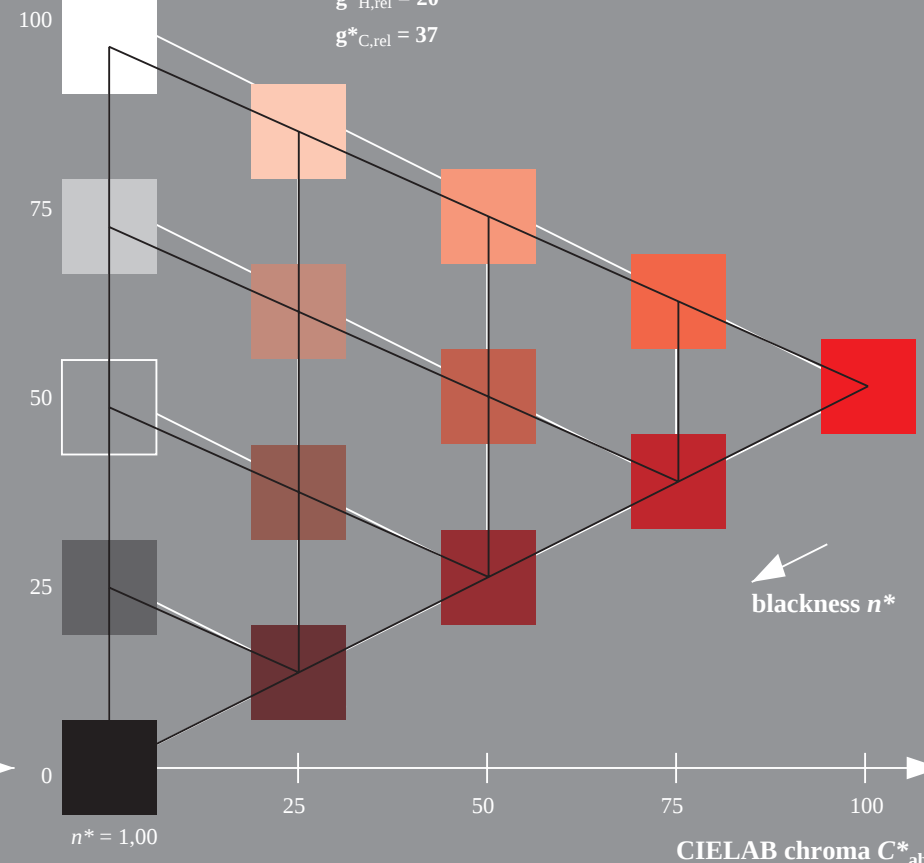
%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	-20.69	90.75	93.08	103
L_m	83.63	-82.75	79.9	115.04	136
C_m	86.88	-46.16	-13.55	48.12	196
V_m	30.39	76.06	-103.59	128.52	306
M_m	57.3	94.35	-58.41	110.97	328
N_m	0.01	0.0	0.0	0.0	0
W_m	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



5 step scales for constant CIELAB hue 40/360 = 0.111 (right)

BAM-test chart OE28; Colorimetric systems TLS70 & TLS00

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

input: $cmY0^* \cdot setcmykcolor$

output: $cmY0^* / 000n^* \cdot setcmykcolor$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 107/360 = 0.298$

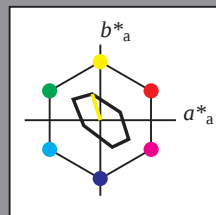
$lab \cdot tch$ and $lab \cdot nch$

D65: hue Y

LCH*Ma: 94 36 107

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 16$

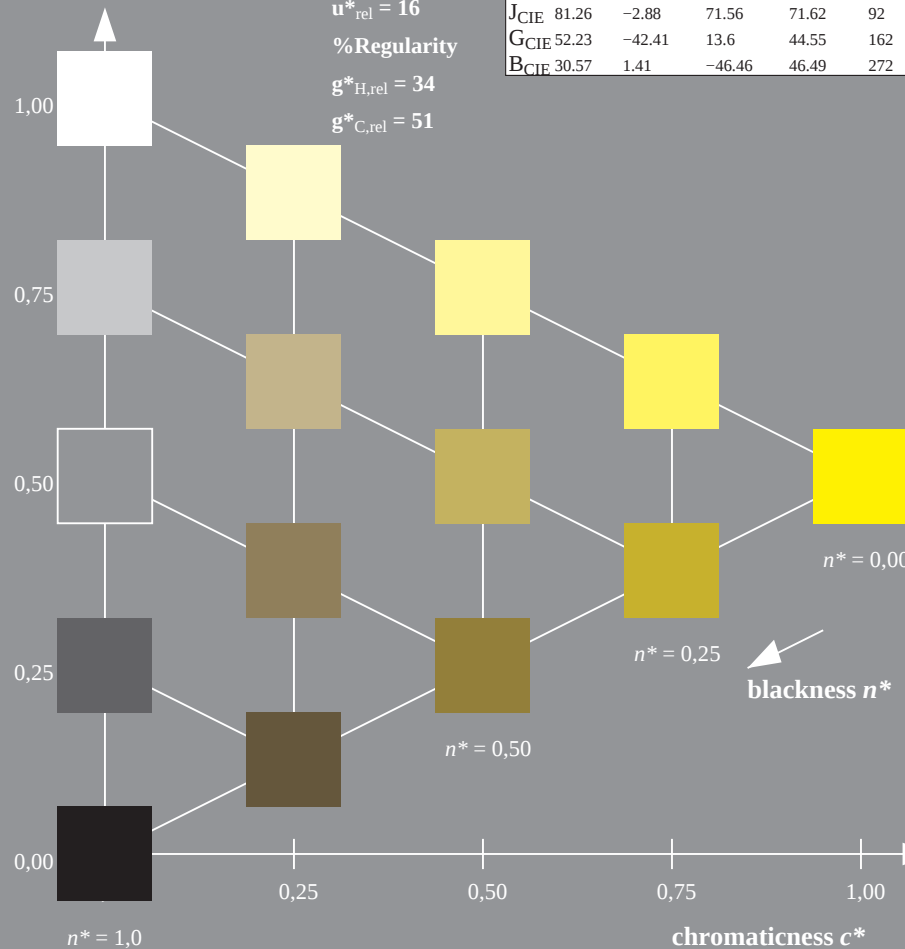
%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	-10.76	34.63	36.27	107
L_m	89.32	-35.8	27.64	45.24	142
C_m	90.93	-21.95	-7.07	23.07	198
V_m	72.1	15.76	-35.63	38.97	294
M_m	78.5	37.52	-25.23	45.22	326
N_m	69.7	0.0	0.0	0.0	0
W_m	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



OE280-7, 5 step scales for constant CIELAB hue 107/360 = 0.298 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 103/360 = 0.286$

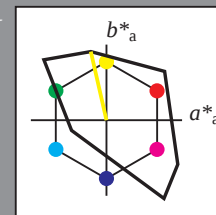
$LAB \cdot LCH$, $LAB \cdot NCH$

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

CIELAB lightness L^*



%Gamut

$u^*_{rel} = 158$

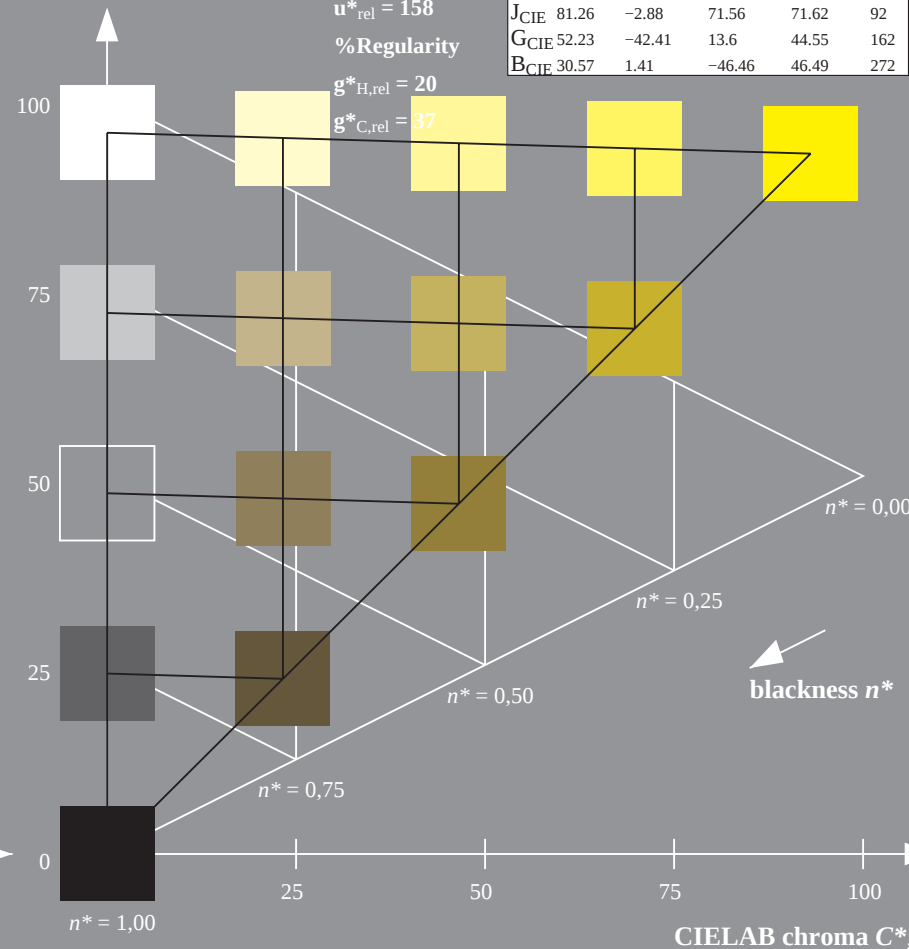
%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	-20.69	90.75	93.08	103
L_m	83.63	-82.75	79.9	115.04	136
C_m	86.88	-46.16	-13.55	48.12	196
V_m	30.39	76.06	-103.59	128.52	306
M_m	57.3	94.35	-58.41	110.97	328
N_m	0.01	0.0	0.0	0.0	0
W_m	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



5 step scales for constant CIELAB hue 103/360 = 0.286 (right)

BAM-test chart OE28; Colorimetric systems TLS70 & TLS00

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

input: $cm y 0^* set cmykcolor$

output: $cm y 0^* / 000 n^* set cmykcolor$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 142/360 = 0.395$

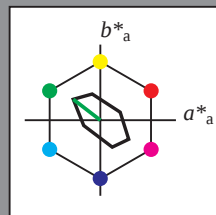
$lab \cdot tch$ and $lab \cdot nch$

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 16$

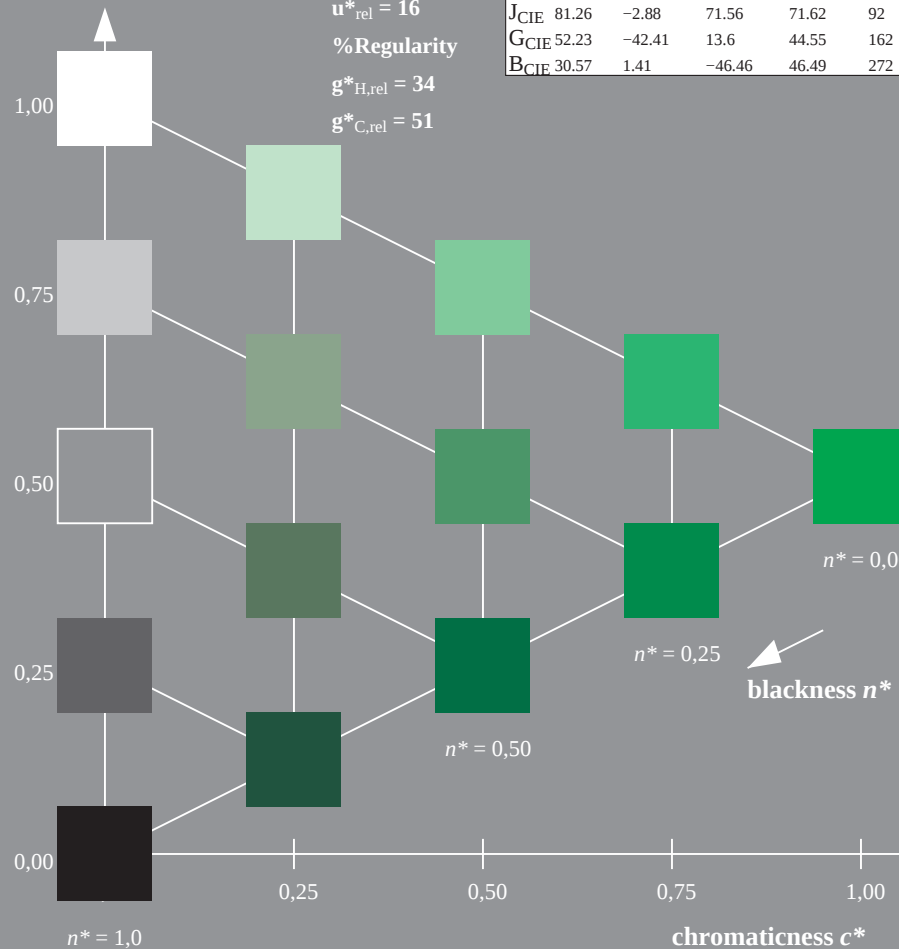
%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	-10.76	34.63	36.27	107
L_m	89.32	-35.8	27.64	45.24	142
C_m	90.93	-21.95	-7.07	23.07	198
V_m	72.1	15.76	-35.63	38.97	294
M_m	78.5	37.52	-25.23	45.22	326
N_m	69.7	0.0	0.0	0.0	0
W_m	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



OE280-7, 5 step scales for constant CIELAB hue 142/360 = 0.395 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 136/360 = 0.378$

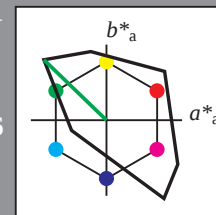
$LAB \cdot LCH$, $LAB \cdot NCH$

D65: hue L

LCH*Ma: 84 115 136

olv*Ma: 0.0 1.0 0.0

CIELAB lightness L^*



%Gamut

$u^*_{rel} = 158$

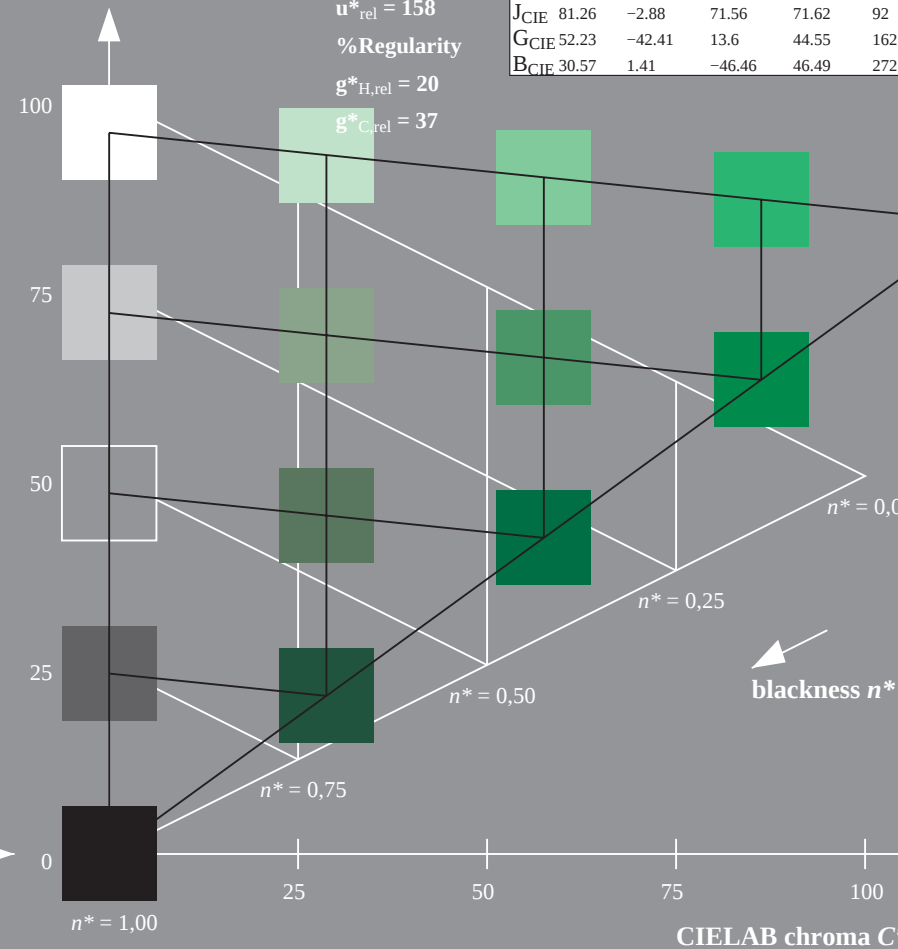
%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	-20.69	90.75	93.08	103
L_m	83.63	-82.75	79.9	115.04	136
C_m	86.88	-46.16	-13.55	48.12	196
V_m	30.39	76.06	-103.59	128.52	306
M_m	57.3	94.35	-58.41	110.97	328
N_m	0.01	0.0	0.0	0.0	0
W_m	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



5 step scales for constant CIELAB hue 136/360 = 0.378 (right)

BAM-test chart OE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: $cmY0^* \text{ set } cmykcolor$
output: $cmY0^* / 000n^* \text{ set } cmykcolor$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 198/360 = 0.55$

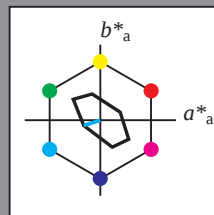
$lab \cdot tch$ and $lab \cdot nch$

D65: hue C

LCH*Ma: 91 23 198

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 16$

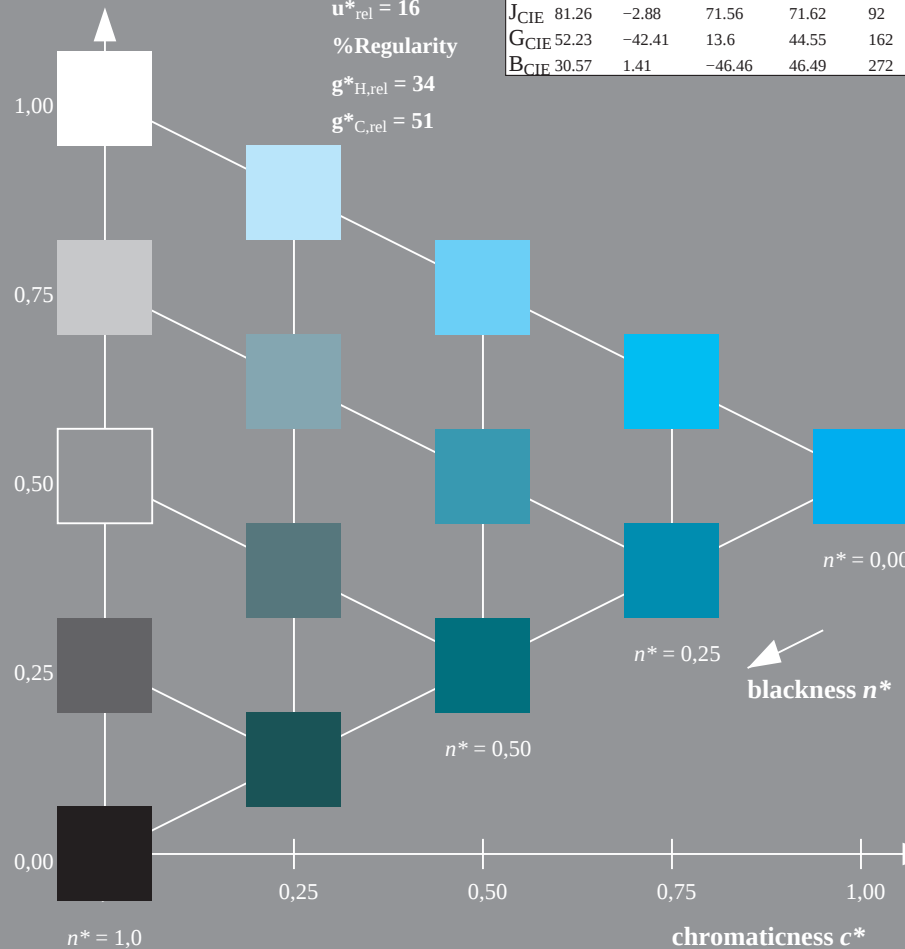
%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	-10.76	34.63	36.27	107
L_m	89.32	-35.8	27.64	45.24	142
C_m	90.93	-21.95	-7.07	23.07	198
V_m	72.1	15.76	-35.63	38.97	294
M_m	78.5	37.52	-25.23	45.22	326
N_m	69.7	0.0	0.0	0.0	0
W_m	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



OE280-7, 5 step scales for constant CIELAB hue 198/360 = 0.55 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 196/360 = 0.545$

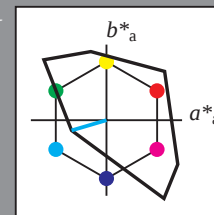
$LAB \cdot LCH$, $LAB \cdot NCH$

D65: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

CIELAB lightness L^*



%Gamut

$u^*_{rel} = 158$

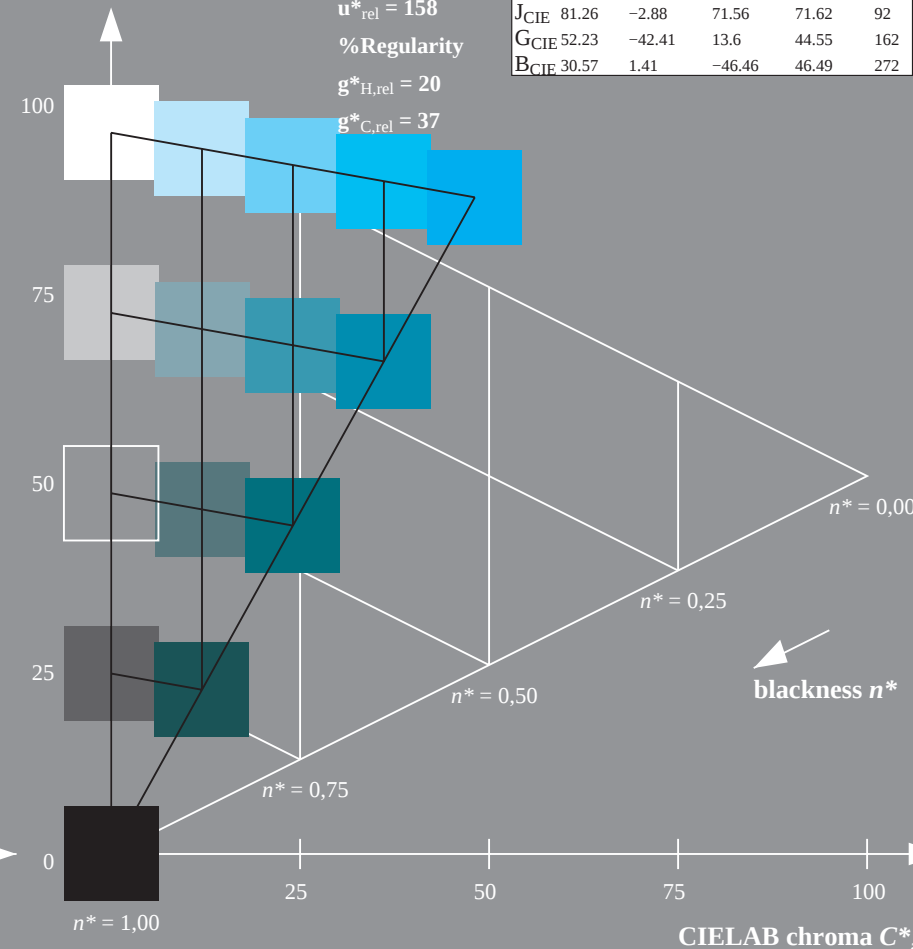
%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	-20.69	90.75	93.08	103
L_m	83.63	-82.75	79.9	115.04	136
C_m	86.88	-46.16	-13.55	48.12	196
V_m	30.39	76.06	-103.59	128.52	306
M_m	57.3	94.35	-58.41	110.97	328
N_m	0.01	0.0	0.0	0.0	0
W_m	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



5 step scales for constant CIELAB hue 196/360 = 0.545 (right)

BAM-test chart OE28; Colorimetric systems TLS70 & TLS00

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

input: $cm y0^* set cmykcolor$

output: $cm y0^* / 000n^* set cmykcolor$

Input: Colorimetric Television Luminous System TLS70

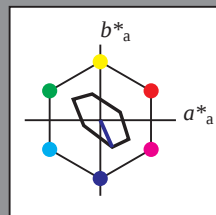
for hue $h^* = lab \cdot h = 294/360 = 0.816$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	-10.76	34.63	36.27	107
L_m	89.32	-35.8	27.64	45.24	142
C_m	90.93	-21.95	-7.07	23.07	198
V_m	72.1	15.76	-35.63	38.97	294
M_m	78.5	37.52	-25.23	45.22	326
N_m	69.7	0.0	0.0	0.0	0
W_m	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

triangle lightness t^*

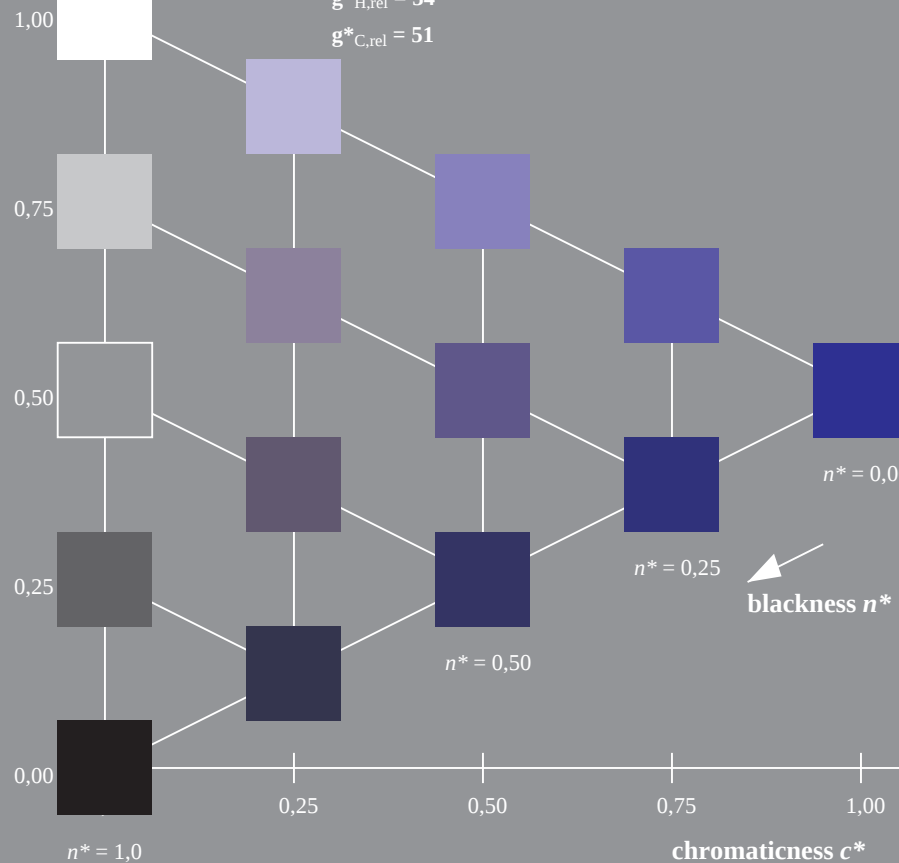
%Gamut

$u^*_{rel} = 16$

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$



OE280-7, 5 step scales for constant CIELAB hue 294/360 = 0.816 (left)

Output: Colorimetric Television Luminous System TLS00

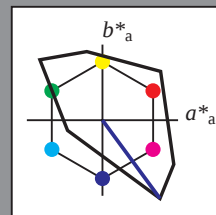
for hue $h^* = lab \cdot h = 306/360 = 0.851$

$LAB \cdot LCH$, $LAB \cdot NCH$

D65: hue V

LCH*Ma: 30 129 306

olv*Ma: 0.0 0.0 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	-20.69	90.75	93.08	103
L_m	83.63	-82.75	79.9	115.04	136
C_m	86.88	-46.16	-13.55	48.12	196
V_m	30.39	76.06	-103.59	128.52	306
M_m	57.3	94.35	-58.41	110.97	328
N_m	0.01	0.0	0.0	0.0	0
W_m	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^*

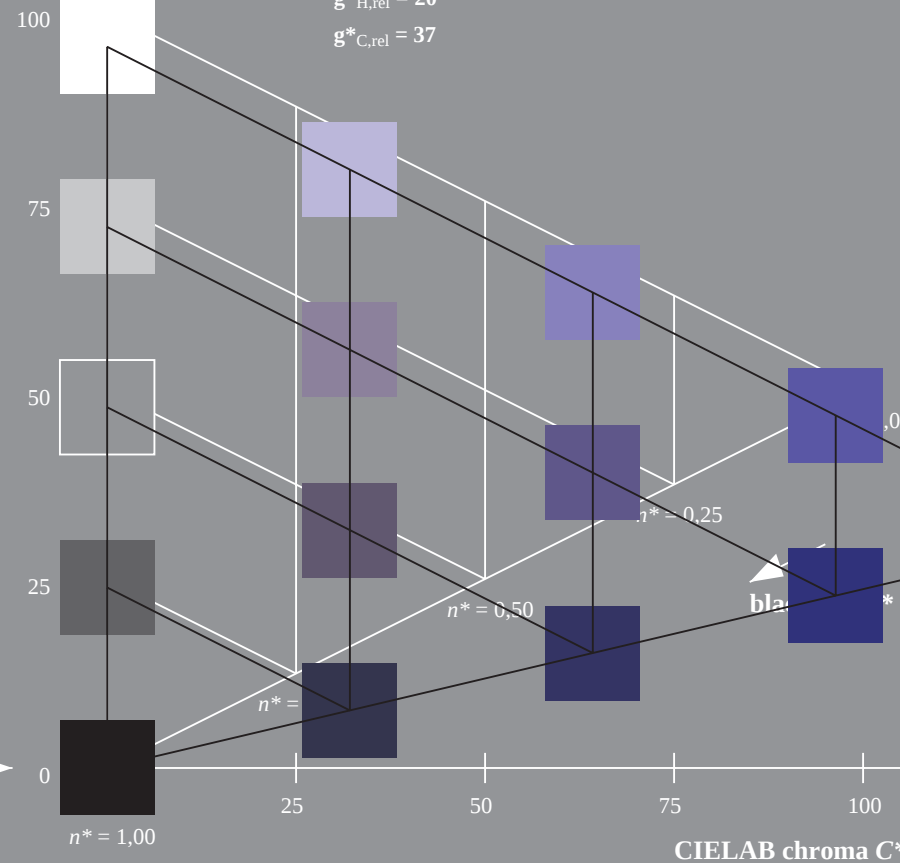
%Gamut

$u^*_{rel} = 158$

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$



5 step scales for constant CIELAB hue 306/360 = 0.851 (right)

BAM-test chart OE28; Colorimetric systems TLS70 & TLS00

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

input: $cmY0^* \cdot setcmYcolor$

output: $cmY0^* / 000n^* \cdot setcmYcolor$


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output: cmy0* / 000n* setcmykcolor
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Input: Colorimetric Television Luminous System TLS70

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

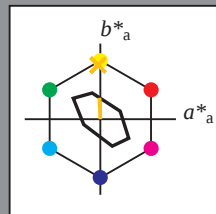
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 16$

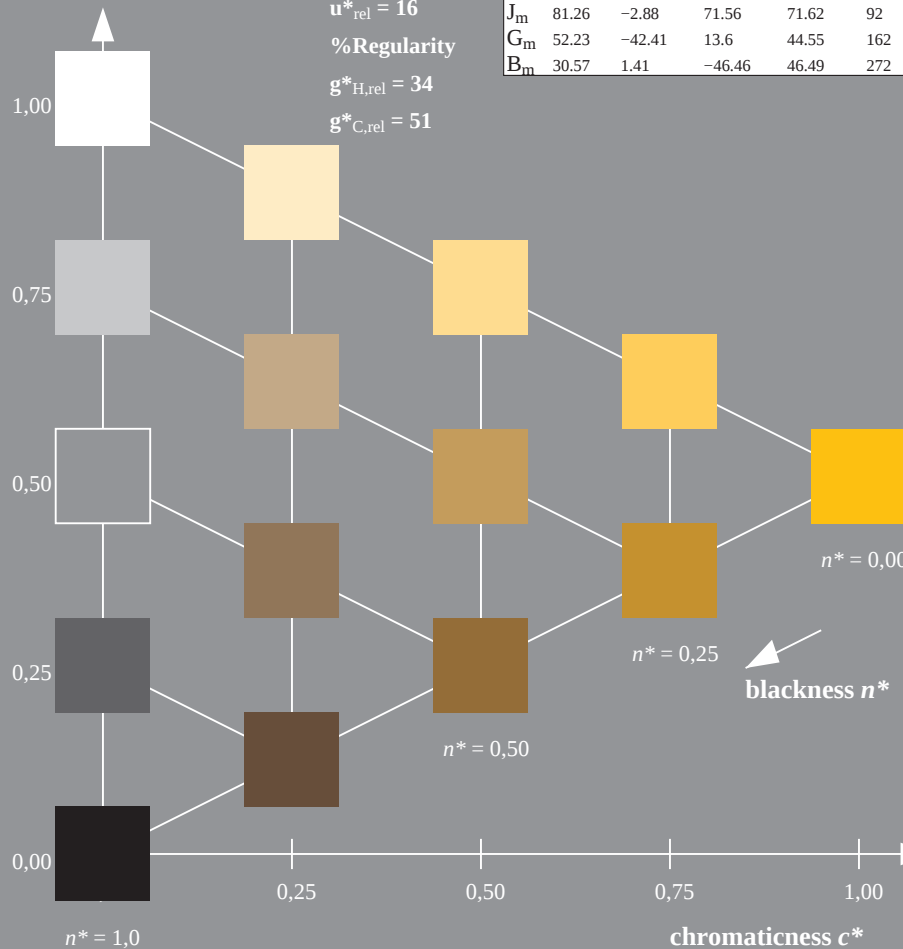
%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	-10.76	34.63	36.27	107
L_m	89.32	-35.8	27.64	45.24	142
C_m	90.93	-21.95	-7.07	23.07	198
V_m	72.1	15.76	-35.63	38.97	294
M_m	78.5	37.52	-25.23	45.22	326
N_m	69.7	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	-2.88	71.56	71.62	92
G_m	52.23	-42.41	13.6	44.55	162
B_m	30.57	1.41	-46.46	46.49	272



OE280-7, 5 step scales for constant CIE hue 92/360 = 0.256 (left)

Output: Colorimetric Television Luminous System TLS00

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

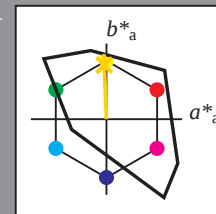
$LAB \cdot LCH$, $LAB \cdot NCH$

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

CIELAB lightness L^*



%Gamut

$u^*_{rel} = 158$

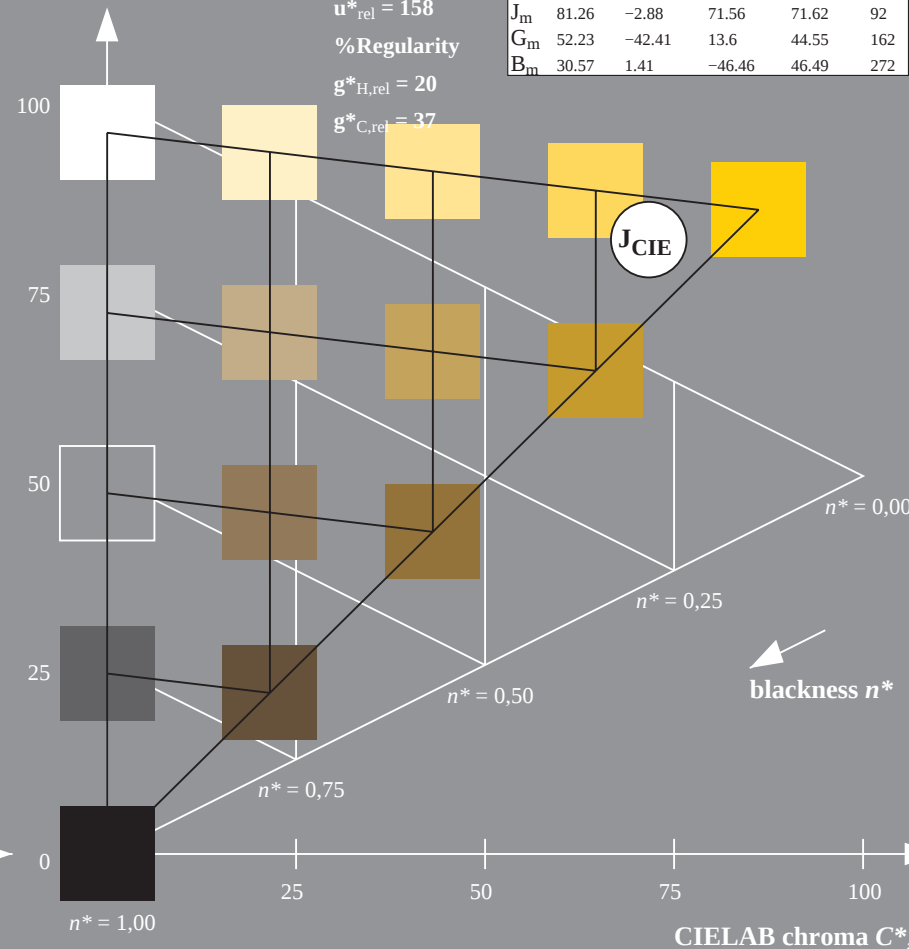
%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	-20.69	90.75	93.08	103
L_m	83.63	-82.75	79.9	115.04	136
C_m	86.88	-46.16	-13.55	48.12	196
V_m	30.39	76.06	-103.59	128.52	306
M_m	57.3	94.35	-58.41	110.97	328
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	-2.88	71.56	71.62	92
G_m	52.23	-42.41	13.6	44.55	162
B_m	30.57	1.41	-46.46	46.49	272



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

BAM-test chart OE28; Colorimetric systems TLS70 & TLS00

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

input: $cm y0^* set cmykcolor$

output: $cm y0^* / 000n^* set cmykcolor$

Input: Colorimetric Television Luminous System TLS70

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

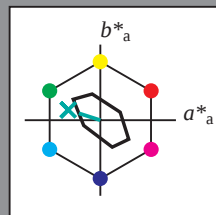
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

triangle lightness t^*



%Gamut

$u^*_{rel} = 16$

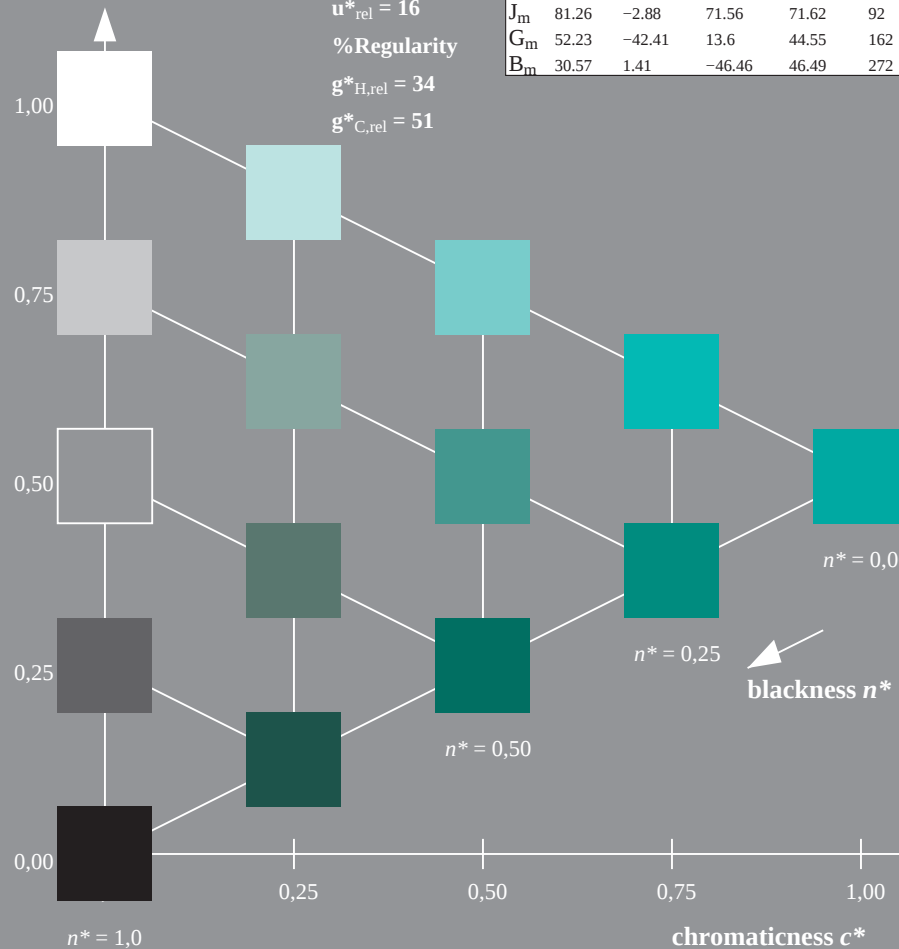
%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	-10.76	34.63	36.27	107
L_m	89.32	-35.8	27.64	45.24	142
C_m	90.93	-21.95	-7.07	23.07	198
V_m	72.1	15.76	-35.63	38.97	294
M_m	78.5	37.52	-25.23	45.22	326
N_m	69.7	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	-2.88	71.56	71.62	92
G_m	52.23	-42.41	13.6	44.55	162
B_m	30.57	1.41	-46.46	46.49	272



OE280-7, 5 step scales for constant CIE hue 162/360 = 0.451 (left)

BAM-test chart OE28; Colorimetric systems TLS70 & TLS00

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

Output: Colorimetric Television Luminous System TLS00

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

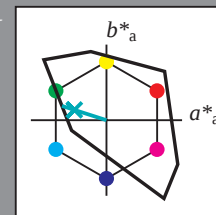
$LAB \cdot LCH$, $LAB \cdot NCH$

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65

CIELAB lightness L^*



%Gamut

$u^*_{rel} = 158$

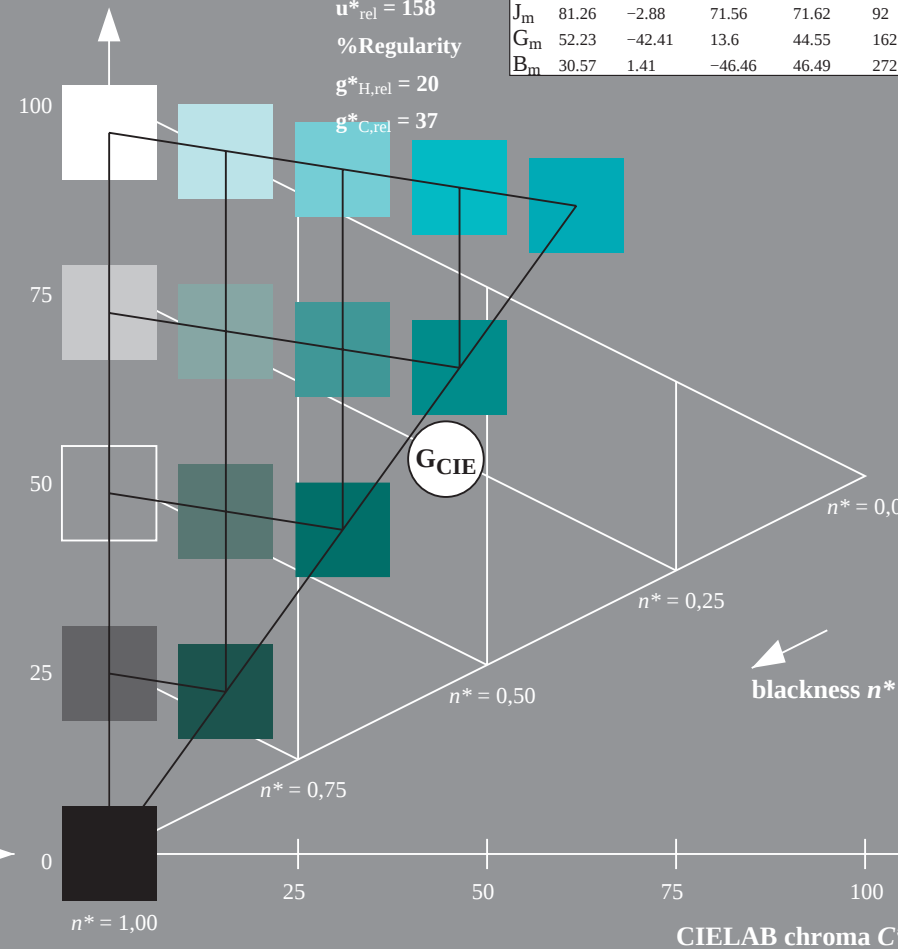
%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	-20.69	90.75	93.08	103
L_m	83.63	-82.75	79.9	115.04	136
C_m	86.88	-46.16	-13.55	48.12	196
V_m	30.39	76.06	-103.59	128.52	306
M_m	57.3	94.35	-58.41	110.97	328
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	-2.88	71.56	71.62	92
G_m	52.23	-42.41	13.6	44.55	162
B_m	30.57	1.41	-46.46	46.49	272



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

input: $cmY0^* \cdot setcmykcolor$

output: $cmY0^* / 000n^* \cdot setcmykcolor$

