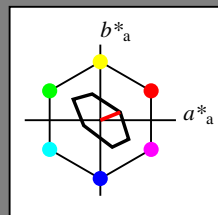


Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 22/360 = 0.061$
 lab^*tch and lab^*nch

D65: hue O
 LCH*Ma: 76 28 22
 olv*Ma: 1.0 0.0 0.0



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 |
| $RCIE$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| J_{CIE} | 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 |

triangle lightness t^*

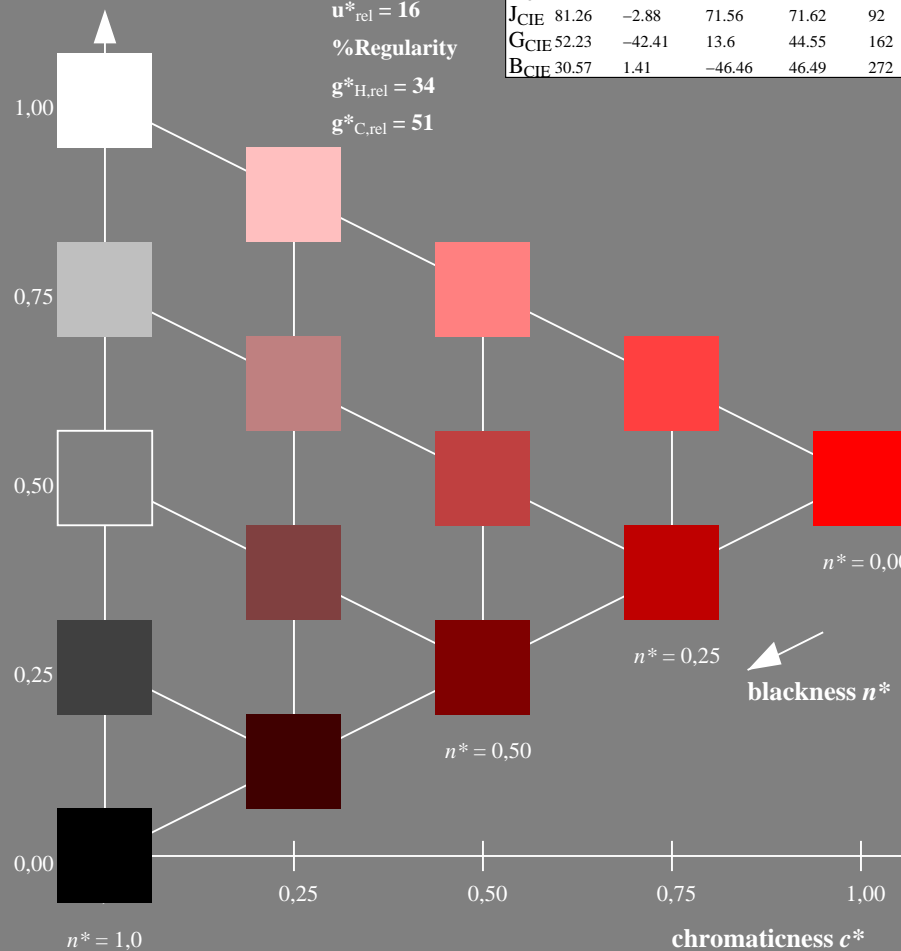
%Gamut

$u^*_{rel} = 16$

%Regularity

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

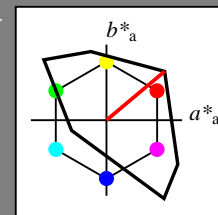
$g^*_{C,rel} = 51$



Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$
 LAB^*LCH, LAB^*NCH

D65: hue O
 LCH*Ma: 51 100 40
 olv*Ma: 1.0 0.0 0.0



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 |
| $RCIE$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| J_{CIE} | 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^*

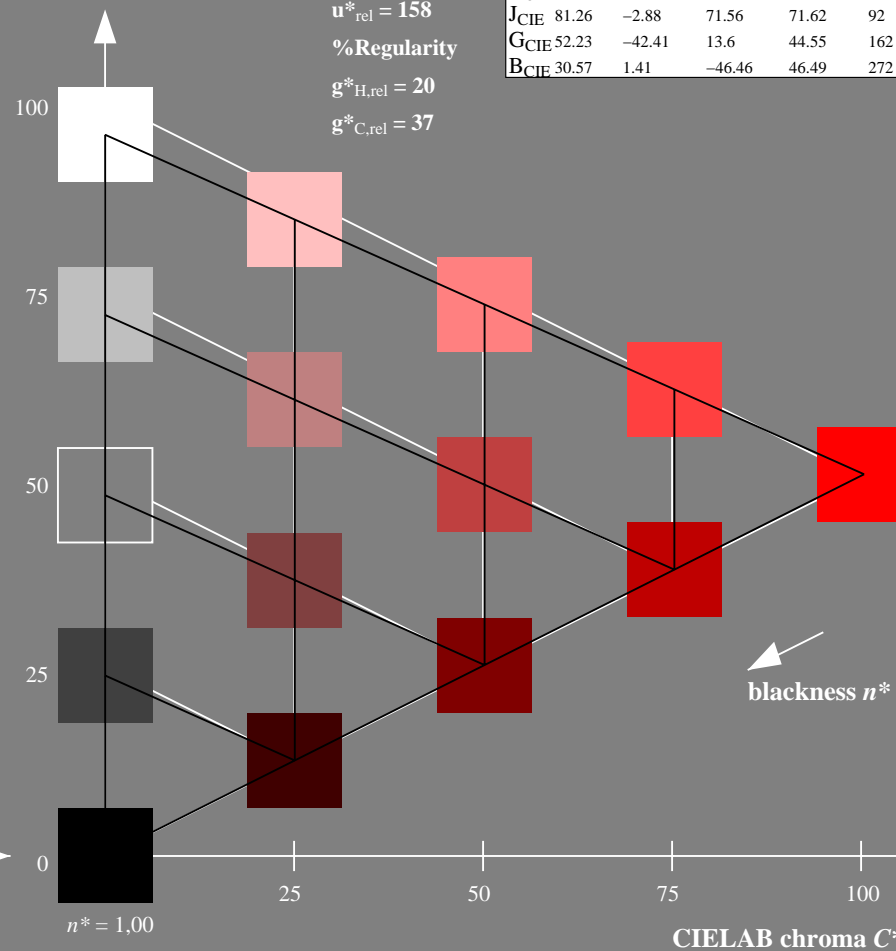
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



NE280-7, 5 step scales for constant CIELAB hue 22/360 = 0.061 (left)

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

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

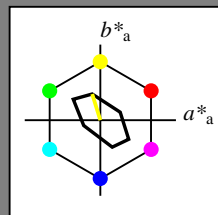
See for similar files: <http://www.ps.bam.de/NE28/>
 Technical information: <http://www.ps.bam.de/NE28/>
 Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-NE28/10L/L28E00FP.PS/.PDF BAM material: code=rh4ta
 application for evaluation and measurement of printer or monitor systems
 /NE28/ Form: 1/10, Serie: 1/1, Page: 1 Page count: 1

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 107/360 = 0.298$
 lab^*tch and lab^*nch

D65: hue Y
 LCH*Ma: 94 36 107
 olv*Ma: 1.0 1.0 0.0



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^*

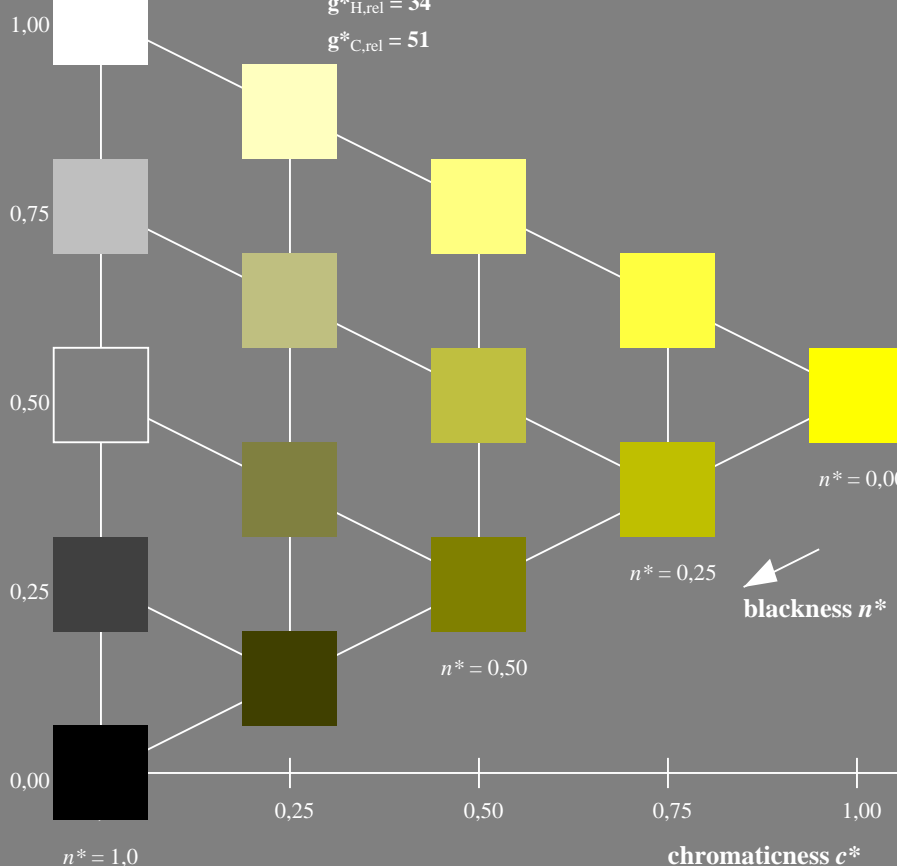
%Gamut

$u^*_{rel} = 16$

%Regularity

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

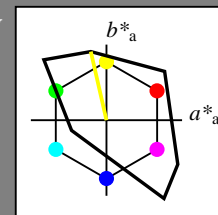
$g^*_{C,rel} = 51$



Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 103/360 = 0.286$
 LAB^*LCH, LAB^*NCH

D65: hue Y
 LCH*Ma: 93 93 103
 olv*Ma: 1.0 1.0 0.0



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^*

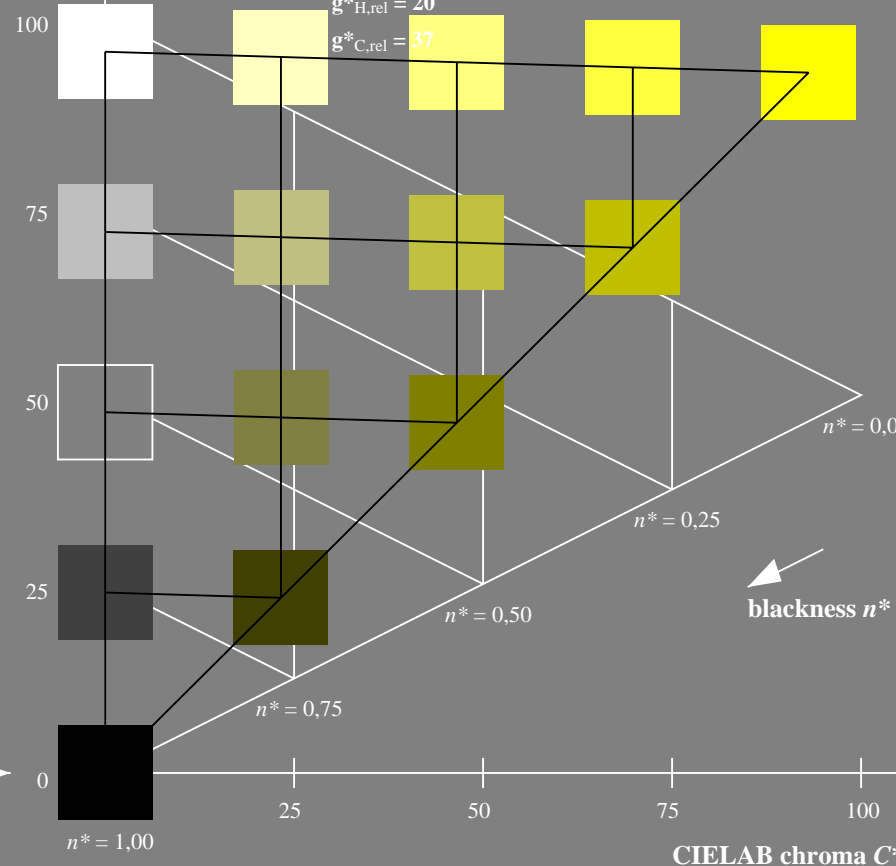
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



NE280-7, 5 step scales for constant CIELAB hue 107/360 = 0.298 (left)

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

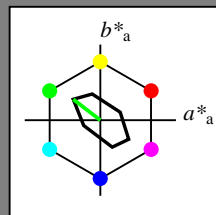
BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 142/360 = 0.395$
 lab^*tch and lab^*nch

D65: hue L
 LCH*Ma: 89 45 142
 olv*Ma: 0.0 1.0 0.0



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^*

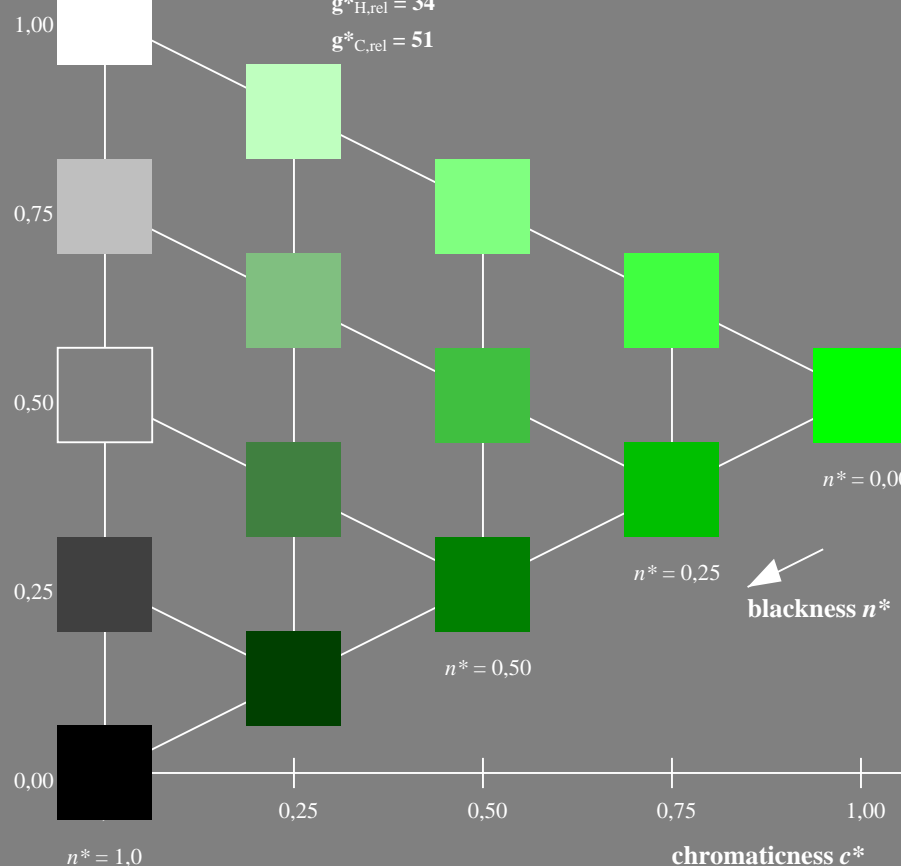
%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

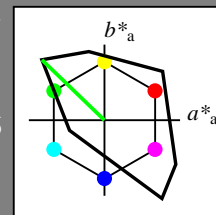


NE280-7, 5 step scales for constant CIELAB hue 142/360 = 0.395 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 136/360 = 0.378$
 LAB^*LCH , LAB^*NCH

D65: hue L
 LCH*Ma: 84 115 136
 olv*Ma: 0.0 1.0 0.0



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^*

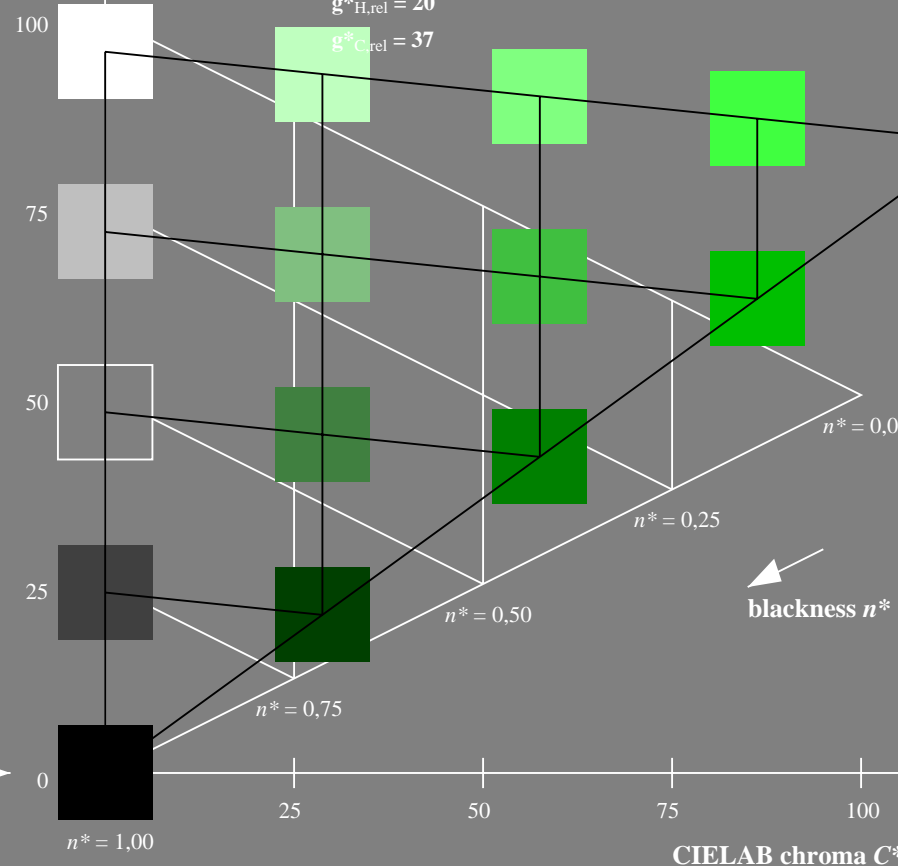
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



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

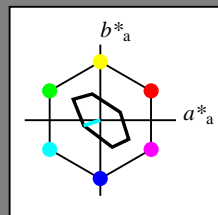
BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 198/360 = 0.55$
 lab^*tch and lab^*nch

D65: hue C
 LCH*Ma: 91 23 198
 olv*Ma: 0.0 1.0 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 |
| $RCIE$ | 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^*

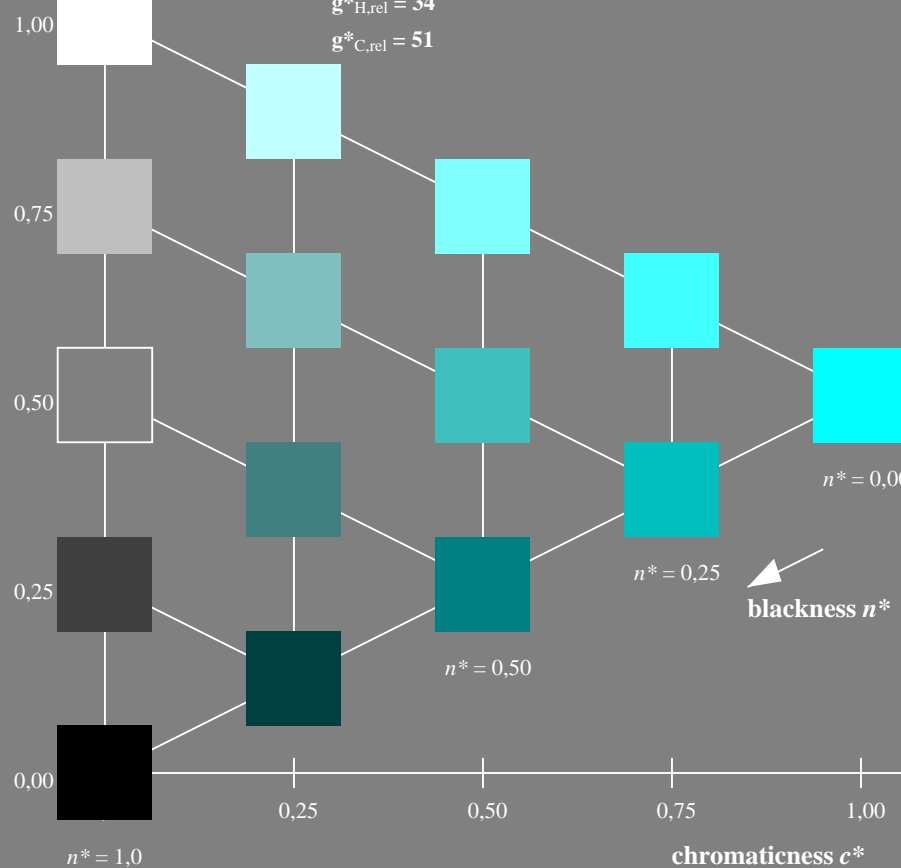
%Gamut

$u^*_{rel} = 16$

%Regularity

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

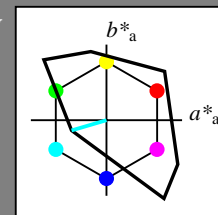
$g^*_{C,rel} = 51$



Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 196/360 = 0.545$
 LAB^*LCH, LAB^*NCH

D65: hue C
 LCH*Ma: 87 48 196
 olv*Ma: 0.0 1.0 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 |
| $RCIE$ | 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^*

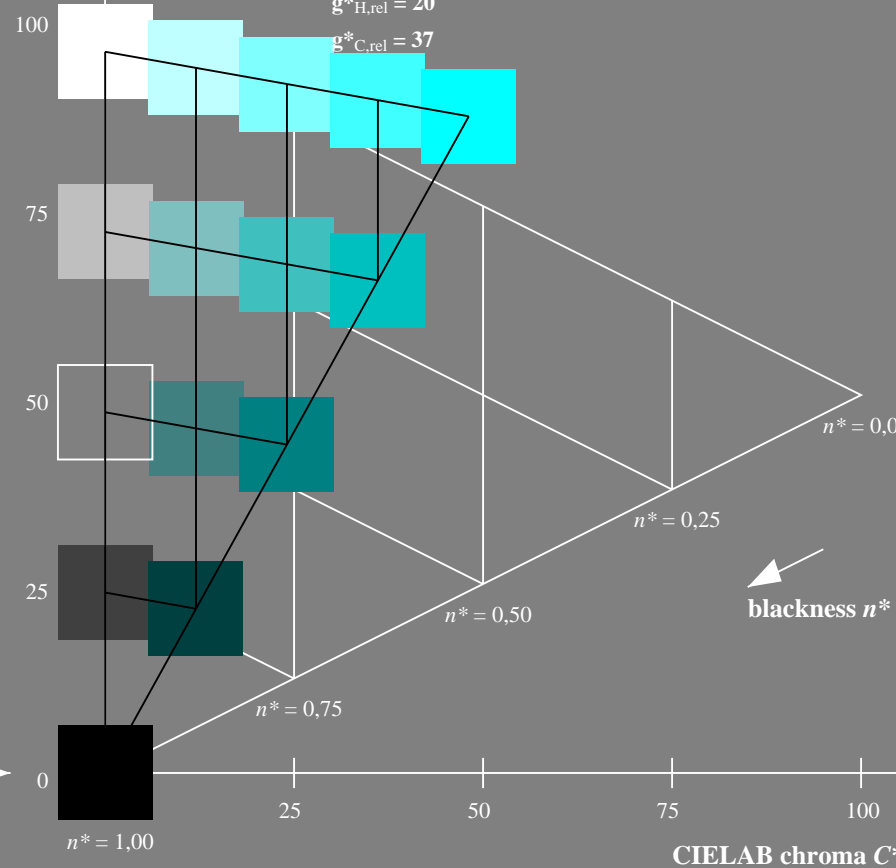
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



NE280-7, 5 step scales for constant CIELAB hue 198/360 = 0.55 (left)

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

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

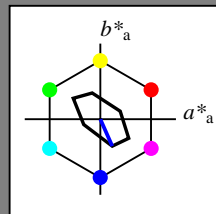
See for similar files: <http://www.ps.bam.de/NE28/>
 Technical information: <http://www.ps.bam.de>
 Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-NE28/10L/L28E03FP.PS/.PDF BAM material: code=rhadata
 application for evaluation and measurement of printer or monitor systems
 /NE28/ Form: 4/10, Serie: 1/1, Page: 4 Page count: 4

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 294/360 = 0.816$
 lab^*tch and lab^*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 |
| $RCIE$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| J_{CIE} | 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 |

triangle lightness t^*

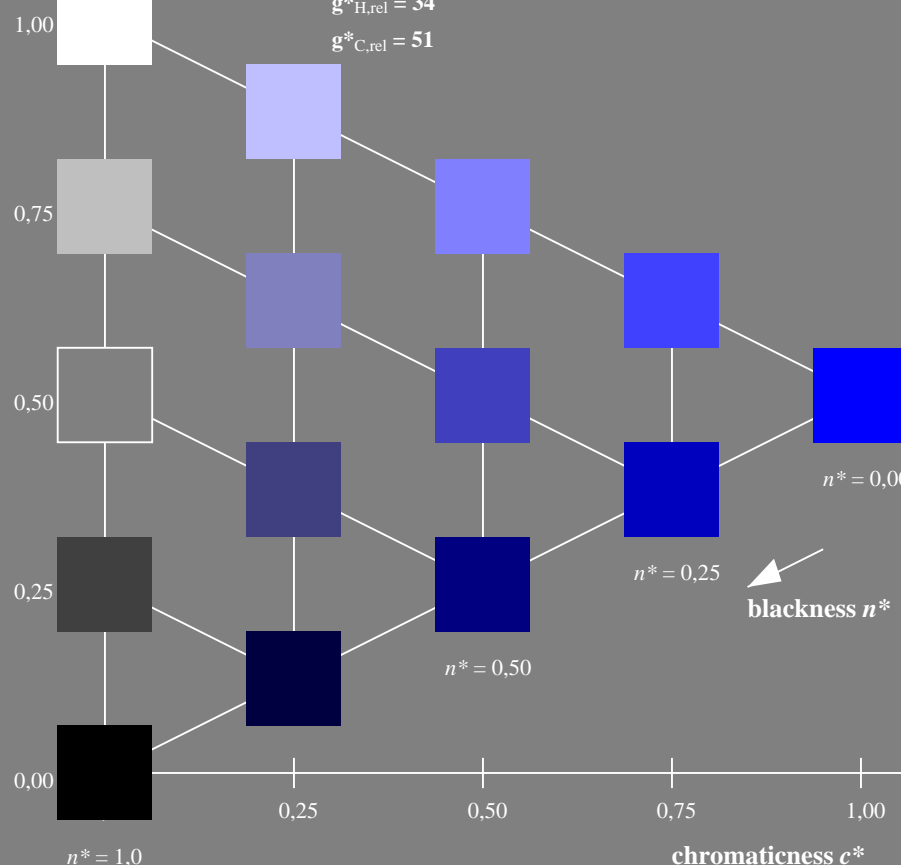
%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

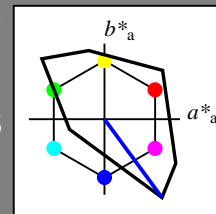


NE280-7, 5 step scales for constant CIE LAB hue 294/360 = 0.816 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 306/360 = 0.851$
 LAB^*LCH , LAB^*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 |
| $RCIE$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| J_{CIE} | 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 |

CIE LAB lightness L^*

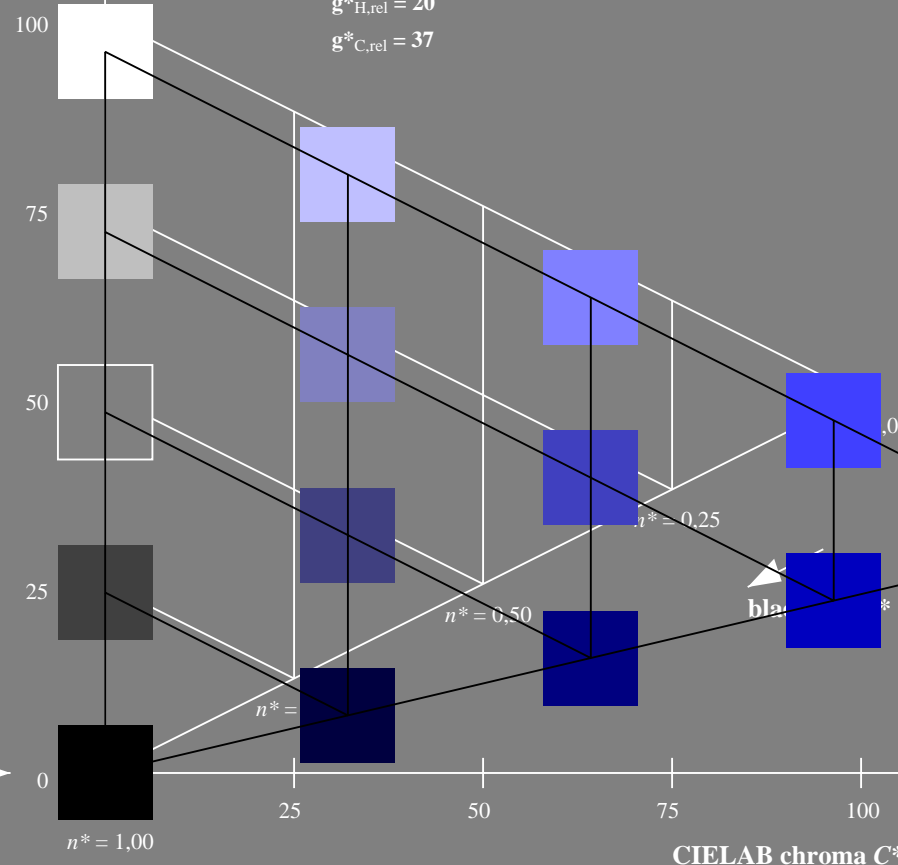
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



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

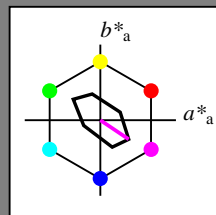
BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 326/360 = 0.906$
 lab^*tch and lab^*nch

D65: hue M
 LCH*Ma: 79 45 326
 olv*Ma: 1.0 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 |
| RC_{IE} | 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^*

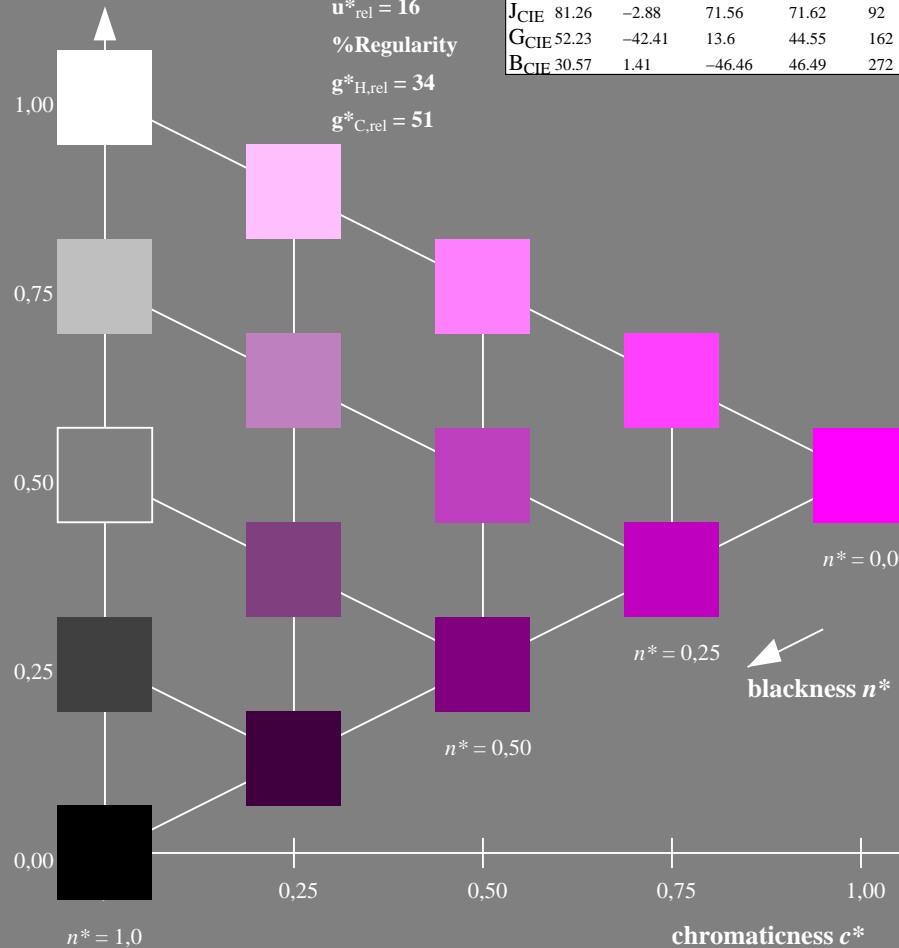
%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

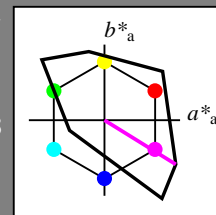


NE280-7, 5 step scales for constant CIE hue 326/360 = 0.906 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 328/360 = 0.912$
 LAB^*LCH , LAB^*NCH

D65: hue M
 LCH*Ma: 57 111 328
 olv*Ma: 1.0 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 |
| RC_{IE} | 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^*

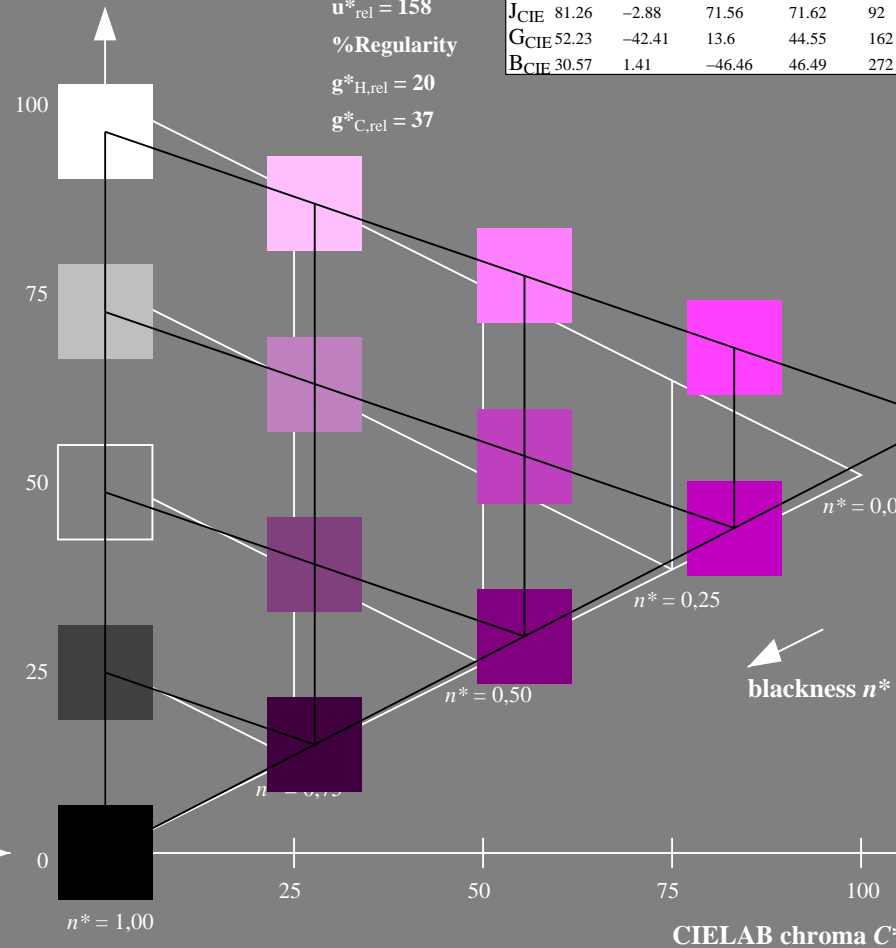
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



5 step scales for constant CIE hue 328/360 = 0.912 (right)

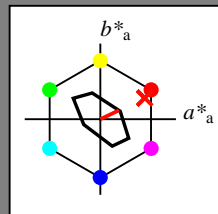
BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 25/360 = 0.071$
 lab^*tch and lab^*nch

D65: hue R
 LCH*Ma: 77 27 25
 olv*Ma: 1.0 0.05 0.0



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_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 |

triangle lightness t^*

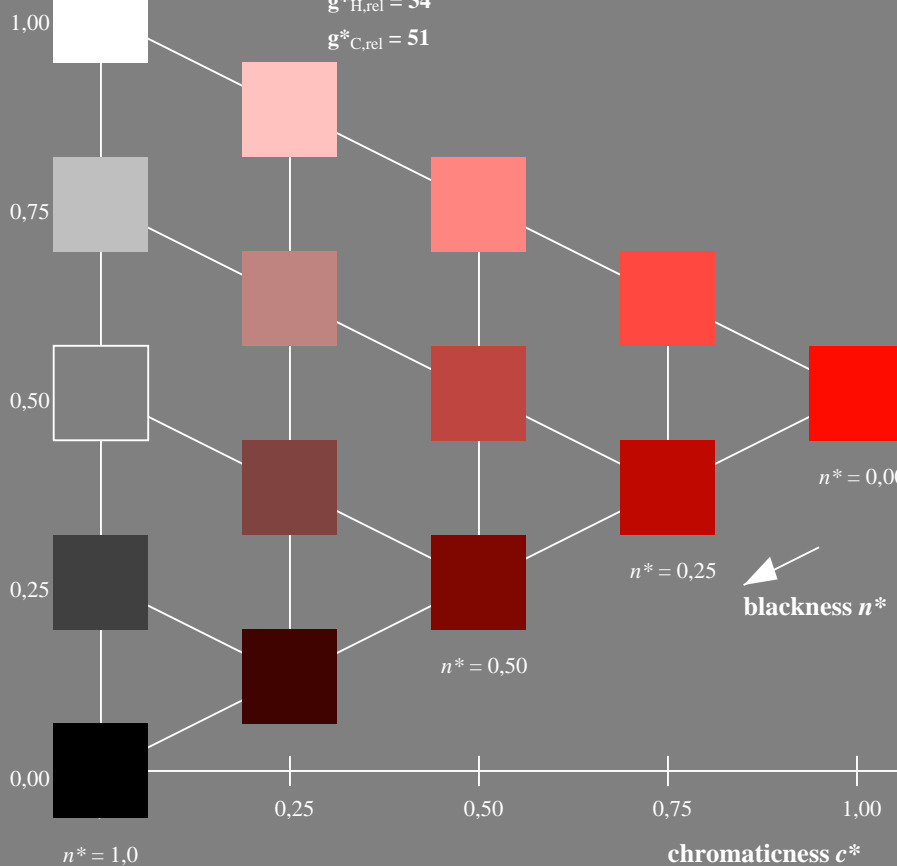
%Gamut

$u^*_{rel} = 16$

%Regularity

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

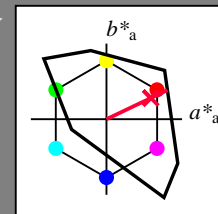
$g^*_{C,rel} = 51$



Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 25/360 = 0.071$
 LAB^*LCH, LAB^*NCH

D65: hue R
 LCH*Ma: 52 89 25
 olv*Ma: 1.0 0.0 0.21



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 |

CIELAB lightness L^*

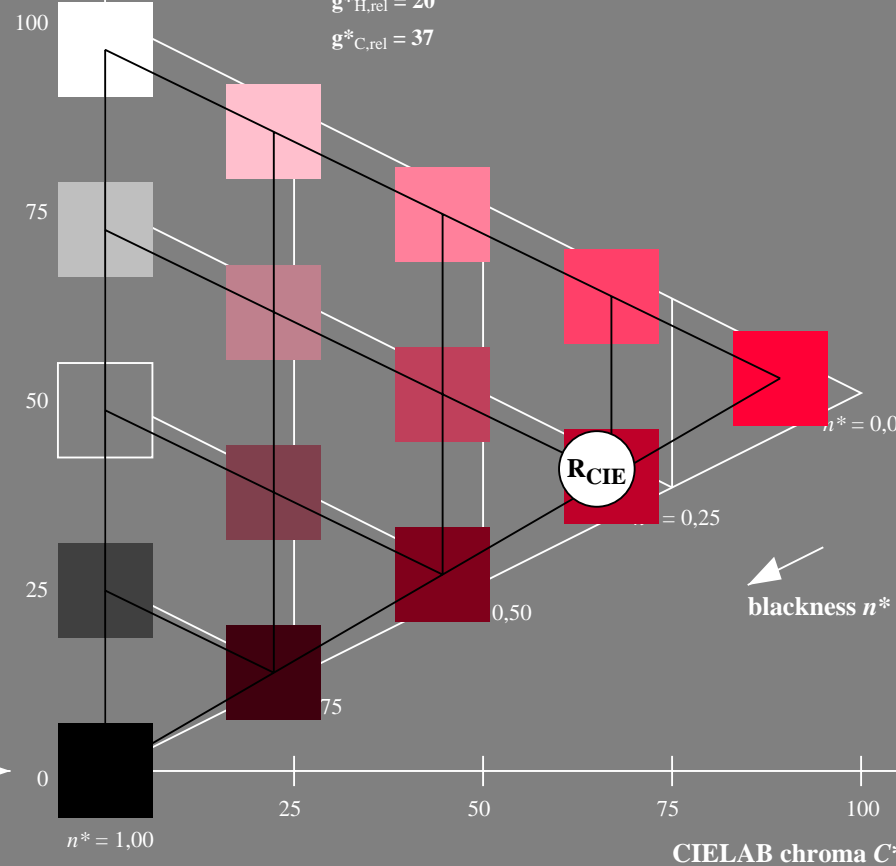
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



NE280-7, 5 step scales for constant CIE hue $25/360 = 0.071$ (left)

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

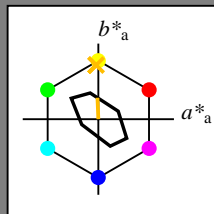
BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 92/360 = 0.256$
 lab^*tch and lab^*nch

D65: hue J
 LCH*Ma: 89 28 92
 olv*Ma: 1.0 0.74 0.0



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_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 |

triangle lightness t^*

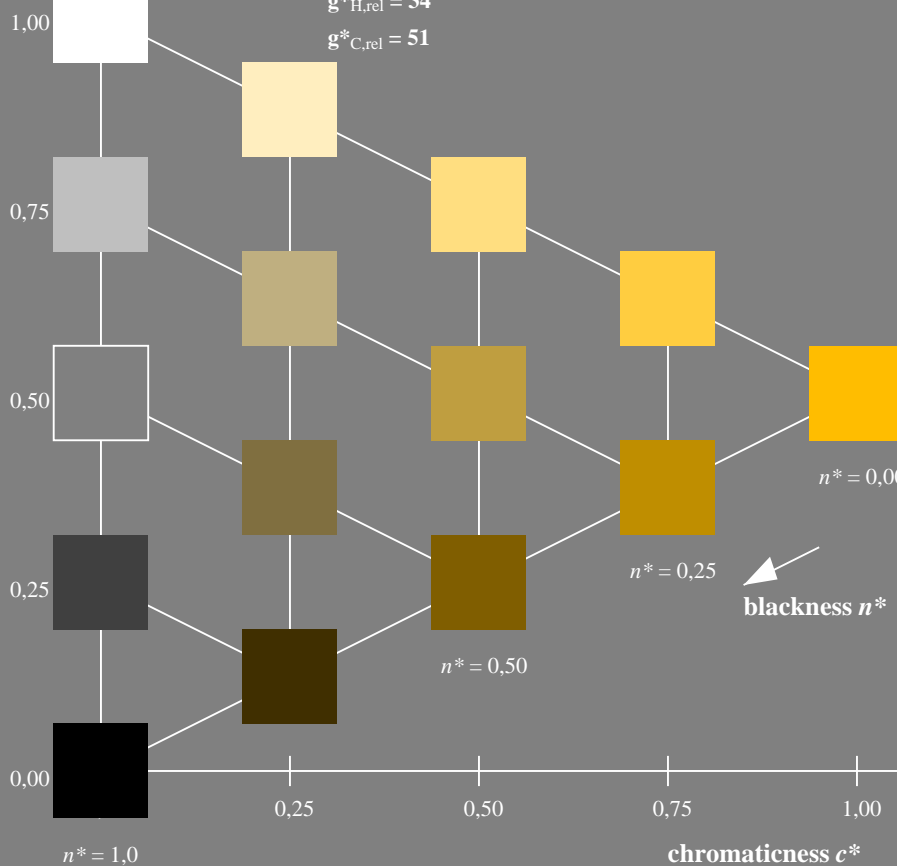
%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

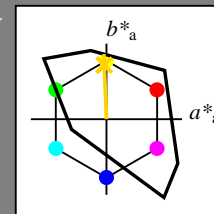


NE280-7, 5 step scales for constant CIE hue 92/360 = 0.256 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 92/360 = 0.256$
 LAB^*LCH , LAB^*NCH

D65: hue J
 LCH*Ma: 85 86 92
 olv*Ma: 1.0 0.82 0.0



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_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 |

CIELAB lightness L^*

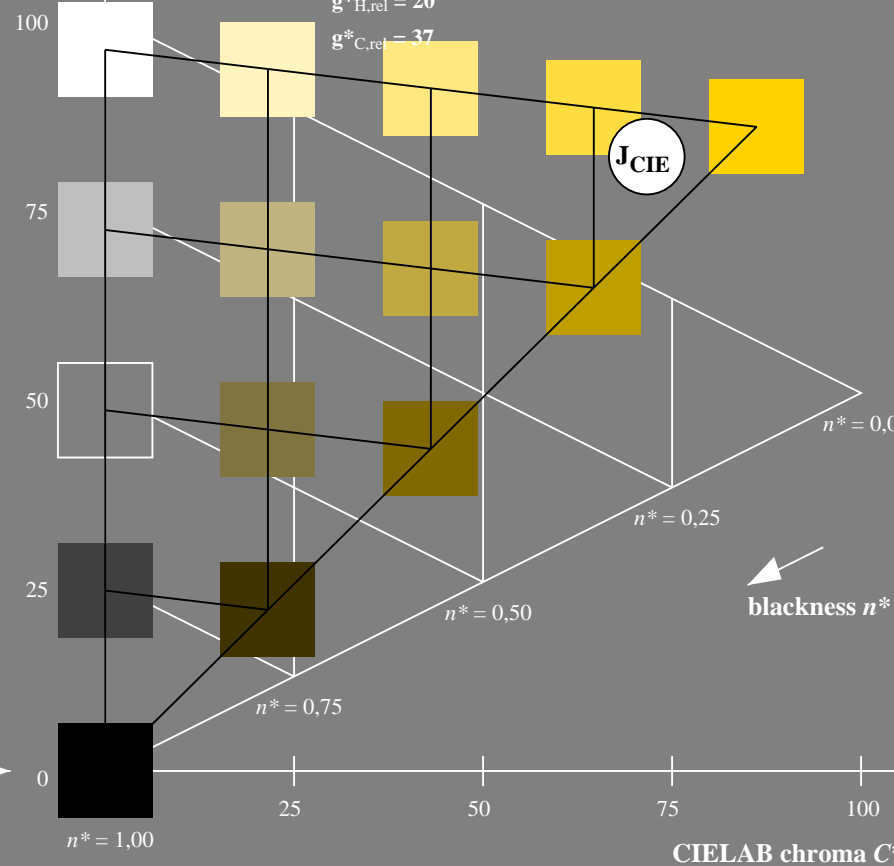
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



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

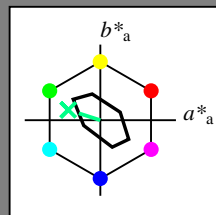
BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 162/360 = 0.451$
 lab^*tch and lab^*nch

D65: hue G
 LCH*Ma: 90 30 162
 olv*Ma: 0.0 1.0 0.53



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 |

triangle lightness t^*

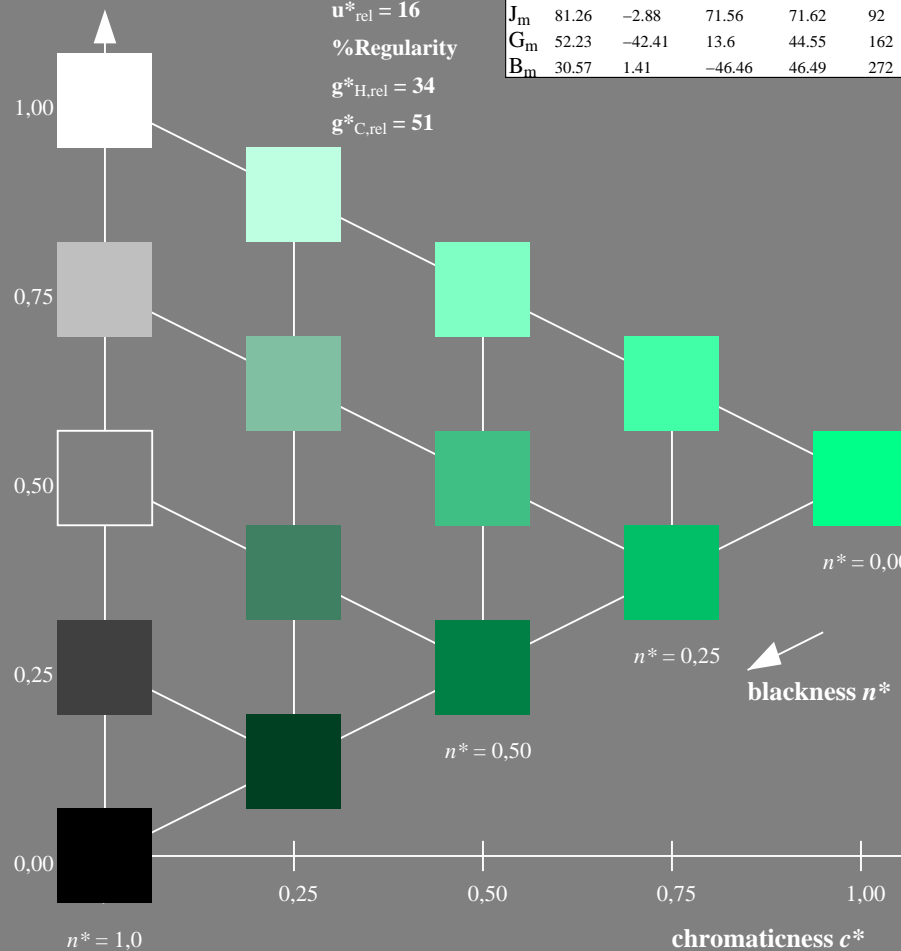
%Gamut

$u^*_{rel} = 16$

%Regularity

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

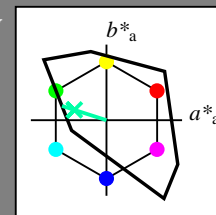
$g^*_{C,rel} = 51$



Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 162/360 = 0.451$
 LAB^*LCH, LAB^*NCH

D65: hue G
 LCH*Ma: 86 62 162
 olv*Ma: 0.0 1.0 0.65



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 |

CIE LAB lightness L^*

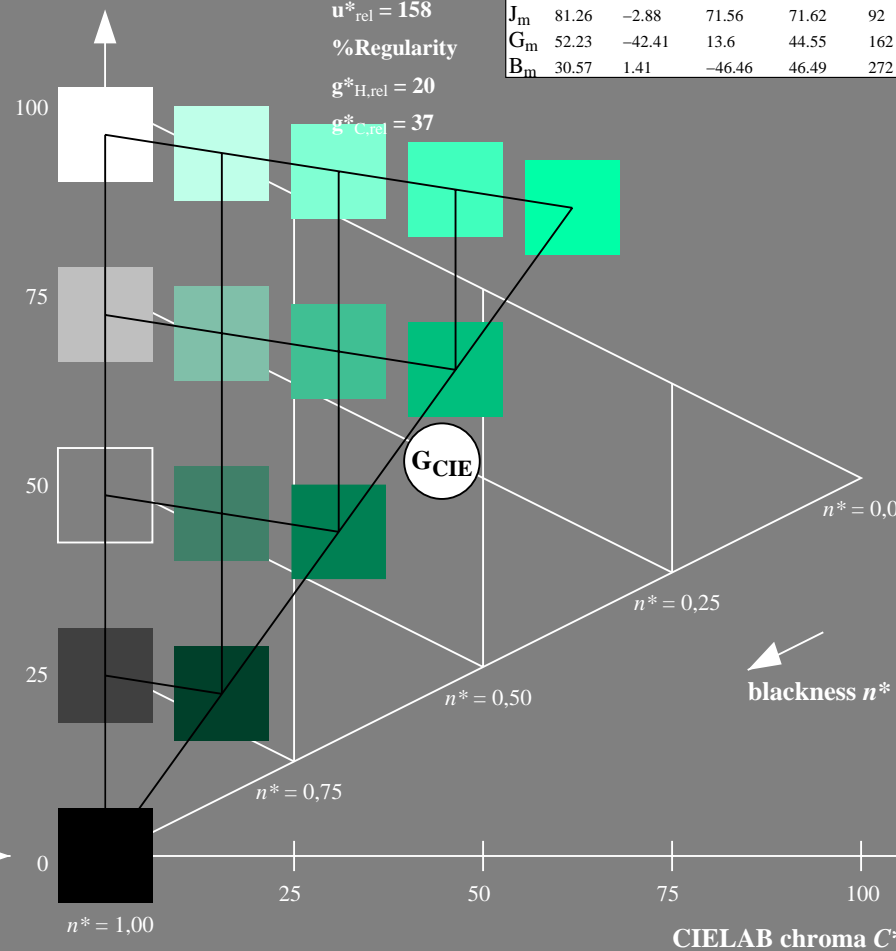
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



NE280-7, 5 step scales for constant CIE LAB hue 162/360 = 0.451 (left)

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

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`

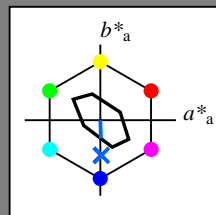
See for similar files: <http://www.ps.bam.de/NE28/>
 Technical information: <http://www.ps.bam.de/NE28/>
 Version 2.1, io=1,1, CIE LAB

BAM registration: 20060101-NE28/10L/L28E08FP.PS/.PDF BAM material: code=rh4ta
 application for evaluation and measurement of printer or monitor systems
 /NE28/ Form: 9/10, Serie: 1/1, Page: 9 Page count: 9

Input: Colorimetric Television Luminous System TLS70

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

D65: hue B
 LCH*Ma: 80 24 272
 olv*Ma: 0.0 0.4 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_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 |

triangle lightness t^*

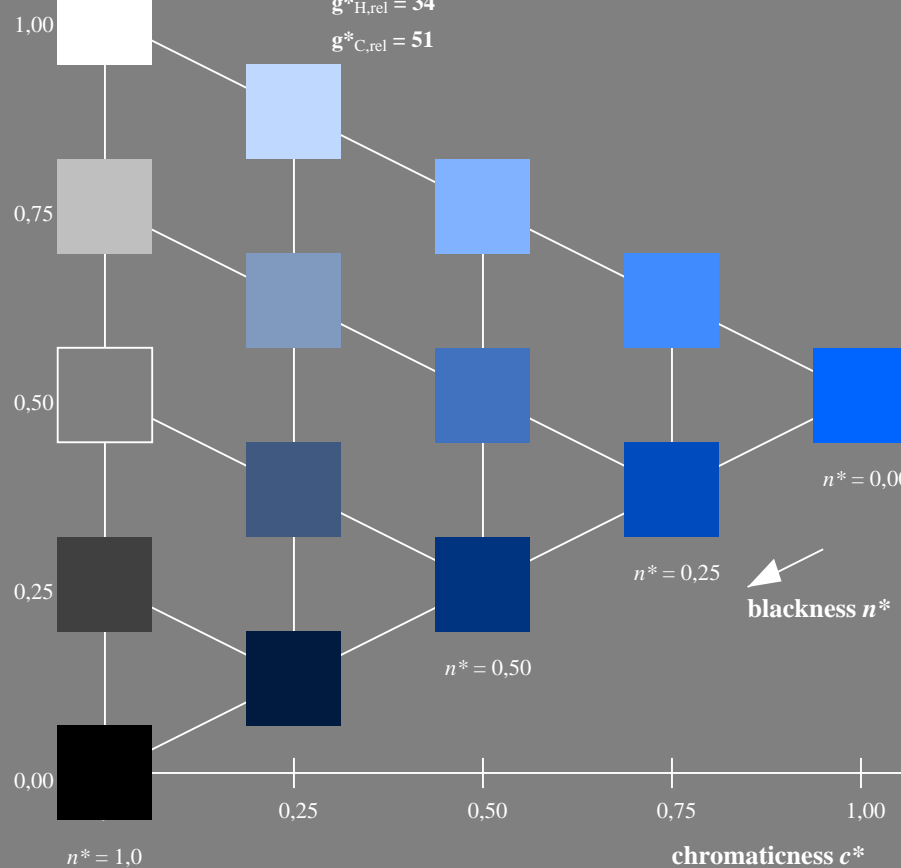
%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

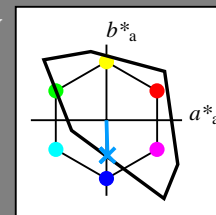


NE280-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 272/360 = 0.755$
 LAB^*LCH , LAB^*NCH

D65: hue B
 LCH*Ma: 65 49 272
 olv*Ma: 0.0 0.61 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_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 |

CIELAB lightness L^*

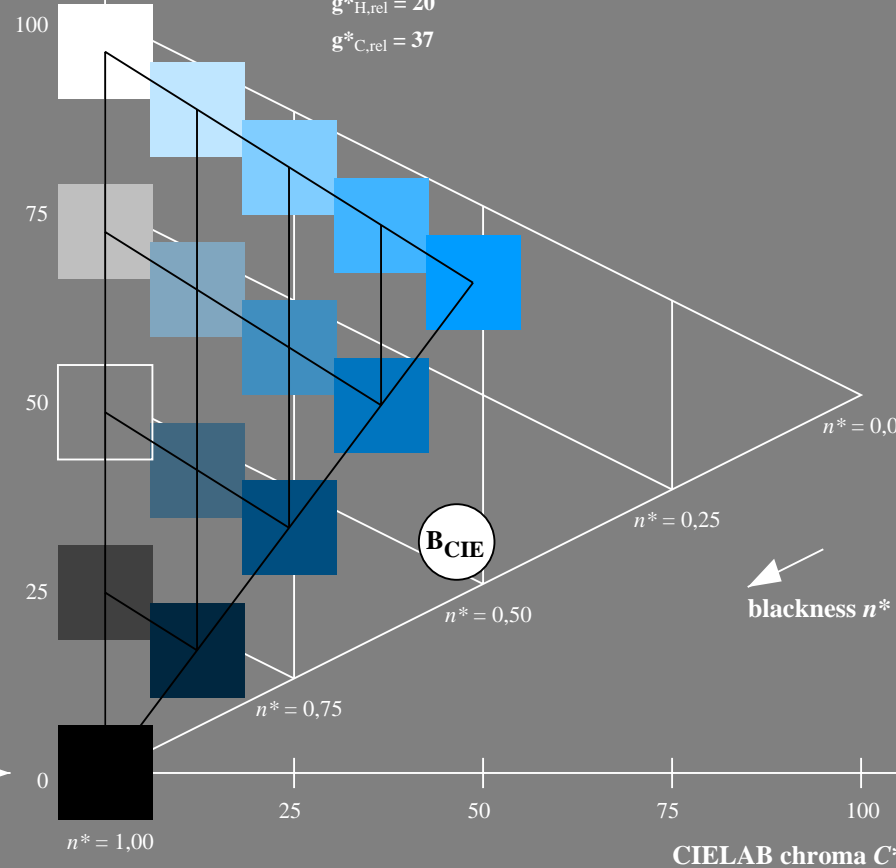
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



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

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
 D65: Coordinate systems of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`
 output: `olv* setrgbcolor / w* setgray`