

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 331/360 = 0.92$

$H^*_- = B25R_-$

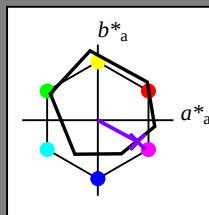
Data for any device (d) or elementary (e) colour:

$HIC^*_-$

hue text for the colours of this page:

$H^*_- = B25R_-$

triangle lightness  $T^*$



| ORS18a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>-,Ma</sub>               | 47.9        | 65.3    | 50.5    | 82.6         | 37           |
| Y <sub>-,Ma</sub>               | 90.3        | -10.2   | 91.7    | 92.3         | 96           |
| G <sub>-,Ma</sub>               | 50.9        | -62.8   | 34.9    | 71.9         | 150          |
| C <sub>-,Ma</sub>               | 58.6        | -30.3   | -45.0   | 54.2         | 236          |
| B <sub>-,Ma</sub>               | 25.7        | 31.0    | -44.4   | 54.2         | 305          |
| M <sub>-,Ma</sub>               | 48.1        | 75.2    | -8.3    | 75.7         | 353          |
| N <sub>-,Ma</sub>               | 18.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>-,Ma</sub>               | 95.4        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>-,CIE</sub>              | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>-,CIE</sub>              | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>-,CIE</sub>              | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>-,CIE</sub>              | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$ : 38 52 -28 59 331

$HIC^*_{-,Ma}$ : B25R\_100\_100\_

$rgbic^*_{-,Ma}$ :

0.5 0.0 1.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

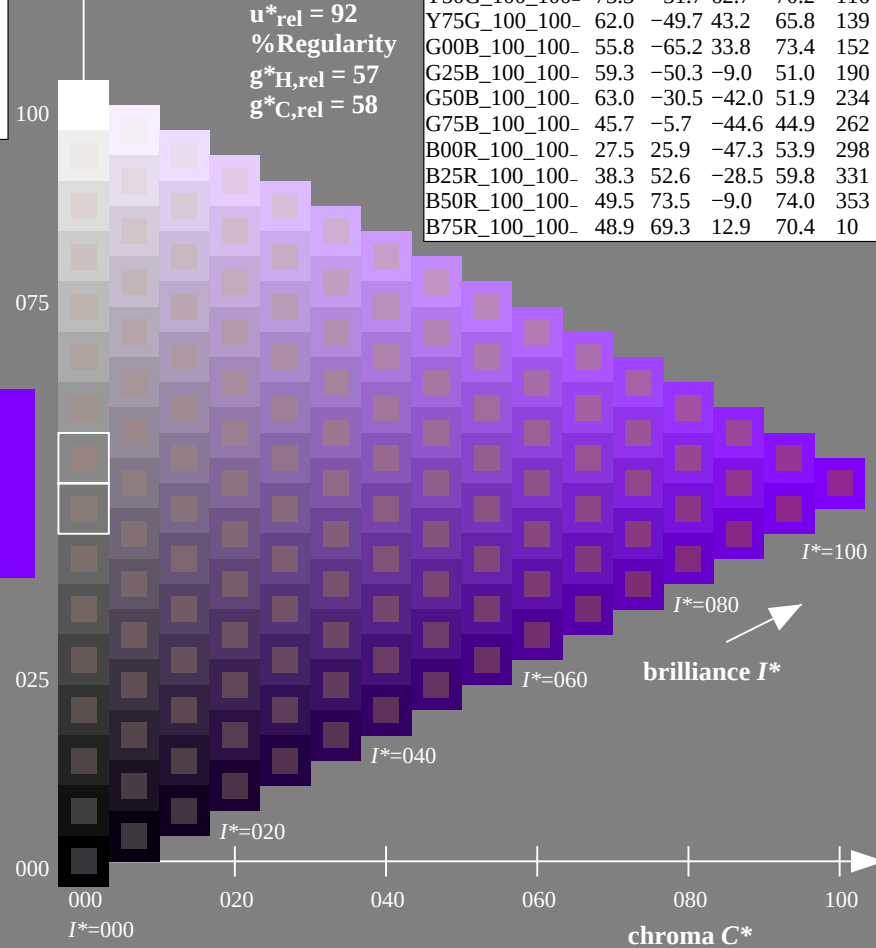
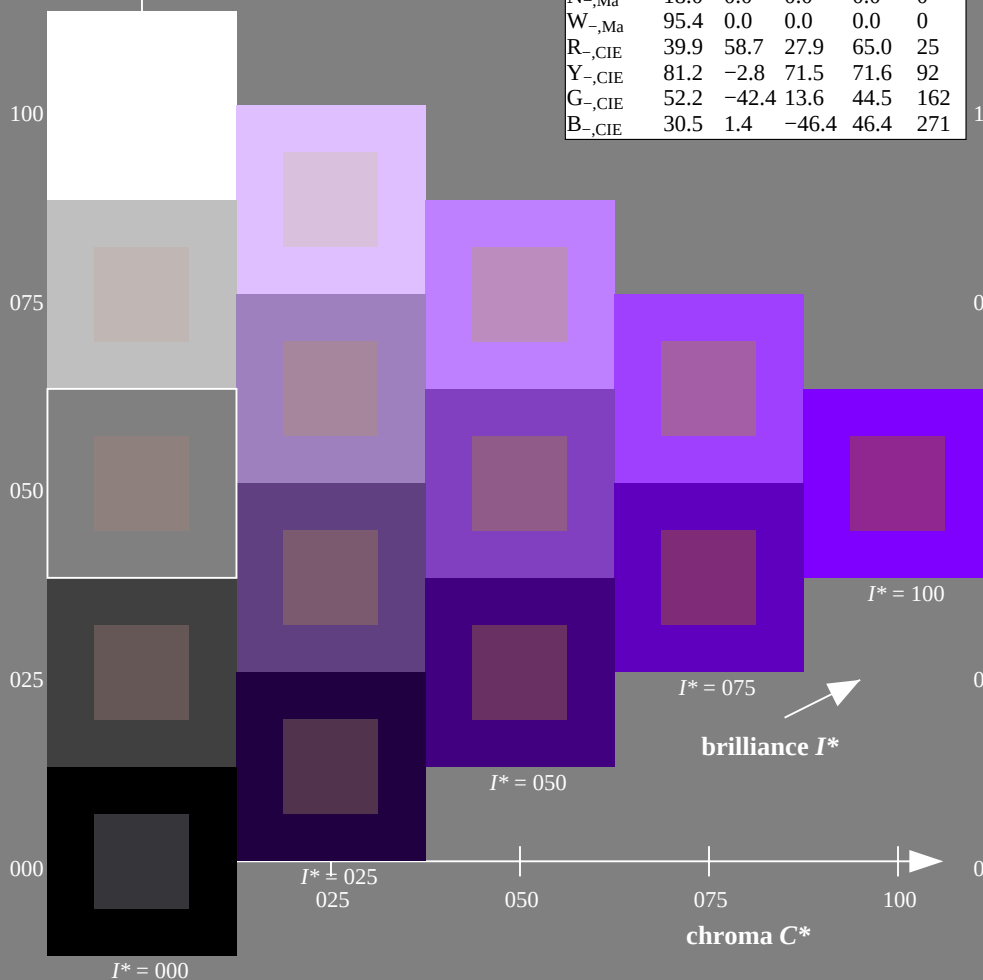
$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_-$                         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R00Y_100_100_                   | 48.4        | 66.1    | 40.2    | 77.3         | 31           |
| R25Y_100_100_                   | 56.8        | 48.0    | 50.5    | 69.6         | 46           |
| R50Y_100_100_                   | 68.6        | 25.0    | 63.9    | 68.6         | 68           |
| R75Y_100_100_                   | 80.6        | 4.8     | 77.2    | 77.3         | 86           |
| Y00G_100_100_                   | 90.2        | -9.6    | 88.2    | 88.7         | 96           |
| Y25G_100_100_                   | 83.2        | -18.4   | 79.9    | 81.9         | 102          |
| Y50G_100_100_                   | 73.3        | -31.7   | 62.7    | 70.2         | 116          |
| Y75G_100_100_                   | 62.0        | -49.7   | 43.2    | 65.8         | 139          |
| G00B_100_100_                   | 55.8        | -65.2   | 33.8    | 73.4         | 152          |
| G25B_100_100_                   | 59.3        | -50.3   | -9.0    | 51.0         | 190          |
| G50B_100_100_                   | 63.0        | -30.5   | -42.0   | 51.9         | 234          |
| G75B_100_100_                   | 45.7        | -5.7    | -44.6   | 44.9         | 262          |
| B00R_100_100_                   | 27.5        | 25.9    | -47.3   | 53.9         | 298          |
| B25R_100_100_                   | 38.3        | 52.6    | -28.5   | 59.8         | 331          |
| B50R_100_100_                   | 49.5        | 73.5    | -9.0    | 74.0         | 353          |
| B75R_100_100_                   | 48.9        | 69.3    | 12.9    | 70.4         | 10           |



TUB-test chart RE20; hue code:  $H^*_- = B25R_-$   
Test chart according to DIN 33872, 3D=1, de=0, sRGB\*

input:  $rgb/cmyk \rightarrow rgb/cmyk$   
output: no change

http://130.149.60.45/~farbmetrik/RE20/RE20L0FP.PDF /.PS; 3D-linearization  
F: 3D-linearization RE20/RE20LE30FP.DAT in file (F), page 2/2

Input and Output: Television Luminous System TLS00a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 311/360 = 0.86$

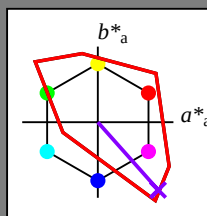
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours  
of this page:

$H^*_d = B25R_d$

triangle lightness  $T^*$



TLS00a; adapted (a) CIELAB data

| name        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------|-------------|---------|---------|--------------|--------------|
| $R_{d,Ma}$  | 50.4        | 76.9    | 64.5    | 100.4        | 40           |
| $Y_{d,Ma}$  | 92.6        | -20.7   | 90.7    | 93.0         | 102          |
| $G_{d,Ma}$  | 83.6        | -82.7   | 79.8    | 115.0        | 136          |
| $C_{d,Ma}$  | 86.8        | -46.1   | -13.5   | 48.1         | 196          |
| $B_{d,Ma}$  | 30.3        | 76.0    | -103.5  | 128.5        | 306          |
| $M_{d,Ma}$  | 57.2        | 94.3    | -58.4   | 110.9        | 328          |
| $N_{d,Ma}$  | 0.0         | 0.0     | 0.0     | 0.0          | 0            |
| $W_{d,Ma}$  | 95.4        | 0.0     | 0.0     | 0.0          | 0            |
| $R_{d,CIE}$ | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| $Y_{d,CIE}$ | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| $G_{d,CIE}$ | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| $B_{d,CIE}$ | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}$ : 38 79 -89 120 311

$HIC^*_{d,Ma}$ : B25R\_100\_100\_d

$rgbic^*_{d,Ma}$ :

0.5 0.0 1.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

$u^*_{rel} = 158$

% Regularity

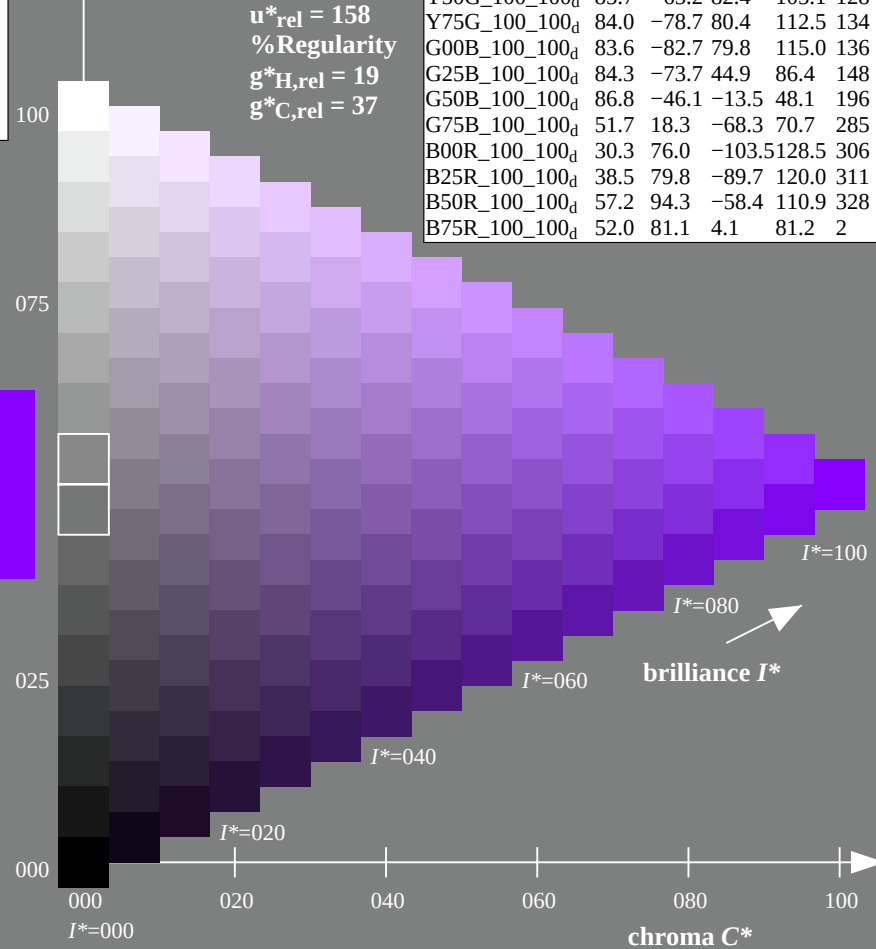
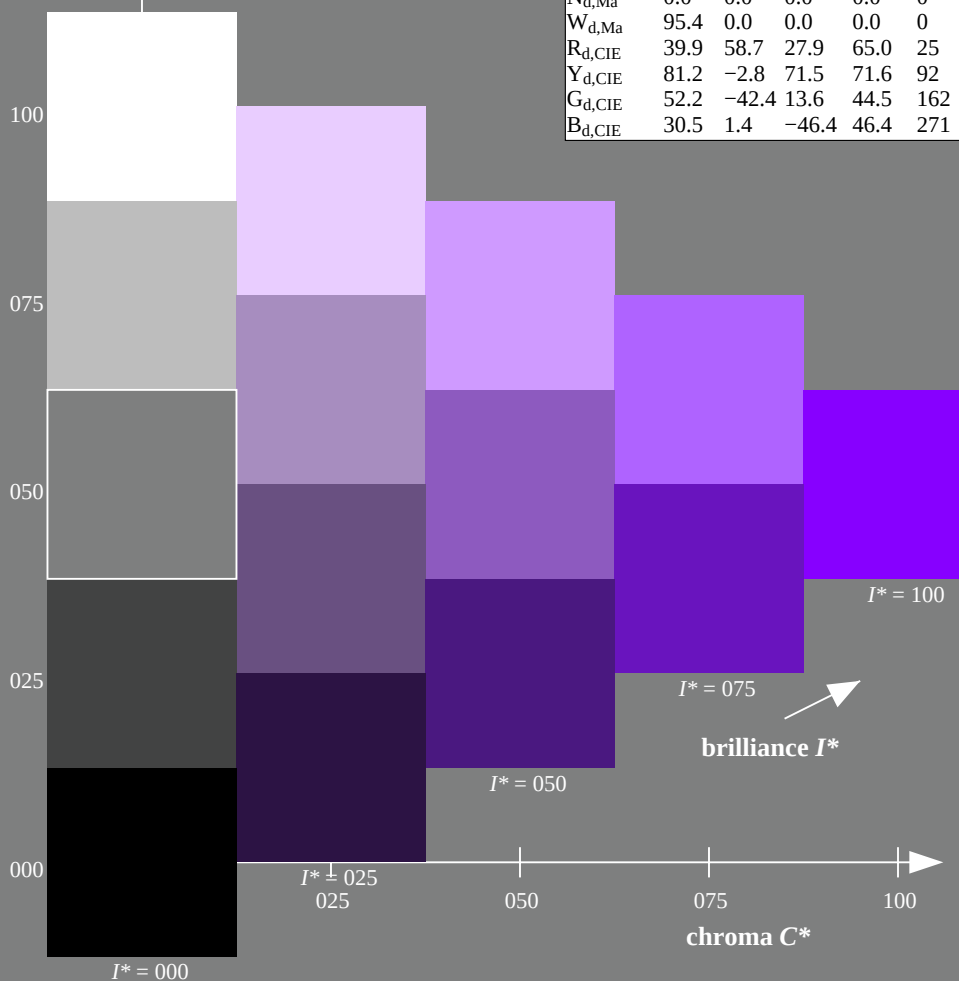
$g^*_{H,rel} = 19$

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

$H^*_d = B25R_d$

TLS00a; adapted (a) CIELAB data

| $H^*_d$            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| $R00Y_{100_100_d}$ | 50.4        | 76.9    | 64.5    | 100.4        | 40           |
| $R25Y_{100_100_d}$ | 53.7        | 67.6    | 65.8    | 94.4         | 44           |
| $R50Y_{100_100_d}$ | 63.6        | 41.3    | 71.0    | 82.2         | 59           |
| $R75Y_{100_100_d}$ | 78.2        | 7.8     | 80.6    | 81.0         | 84           |
| $Y00G_{100_100_d}$ | 92.6        | -20.7   | 90.7    | 93.0         | 102          |
| $Y25G_{100_100_d}$ | 88.7        | -43.3   | 86.2    | 96.5         | 116          |
| $Y50G_{100_100_d}$ | 85.7        | -65.2   | 82.4    | 105.1        | 128          |
| $Y75G_{100_100_d}$ | 84.0        | -78.7   | 80.4    | 112.5        | 134          |
| $G00B_{100_100_d}$ | 83.6        | -82.7   | 79.8    | 115.0        | 136          |
| $G25B_{100_100_d}$ | 84.3        | -73.7   | 44.9    | 86.4         | 148          |
| $G50B_{100_100_d}$ | 86.8        | -46.1   | -13.5   | 48.1         | 196          |
| $G75B_{100_100_d}$ | 51.7        | 18.3    | -68.3   | 70.7         | 285          |
| $B00R_{100_100_d}$ | 30.3        | 76.0    | -103.5  | 128.5        | 306          |
| $B25R_{100_100_d}$ | 38.5        | 79.8    | -89.7   | 120.0        | 311          |
| $B50R_{100_100_d}$ | 57.2        | 94.3    | -58.4   | 110.9        | 328          |
| $B75R_{100_100_d}$ | 52.0        | 81.1    | 4.1     | 81.2         | 2            |



TUB-test chart RE20; hue code:  $H^*_d=B25R_d$   
Test chart according to DIN 33872, 3D=1, de=0, sRGB\*

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $rgb^*_{dd}$

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 331/360 = 0.92$

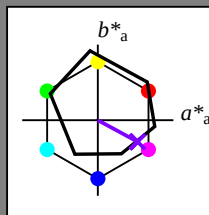
Data for any device (d) or elementary (e) colour:

$HIC^*$

hue text for the colours of this page:

$H^*_ = B25R_-$

triangle lightness  $T^*$



| ORS18a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>-,Ma</sub>               | 47.9        | 65.3    | 50.5    | 82.6         | 37           |
| Y <sub>-,Ma</sub>               | 90.3        | -10.2   | 91.7    | 92.3         | 96           |
| G <sub>-,Ma</sub>               | 50.9        | -62.8   | 34.9    | 71.9         | 150          |
| C <sub>-,Ma</sub>               | 58.6        | -30.3   | -45.0   | 54.2         | 236          |
| B <sub>-,Ma</sub>               | 25.7        | 31.0    | -44.4   | 54.2         | 305          |
| M <sub>-,Ma</sub>               | 48.1        | 75.2    | -8.3    | 75.7         | 353          |
| N <sub>-,Ma</sub>               | 18.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>-,Ma</sub>               | 95.4        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>-,CIE</sub>              | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>-,CIE</sub>              | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>-,CIE</sub>              | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>-,CIE</sub>              | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$ : 38 52 -28 59 331

$HIC^*_{-,Ma}$ : B25R\_100\_100\_

$rgbic^*_{-,Ma}$ :

0.5 0.0 1.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

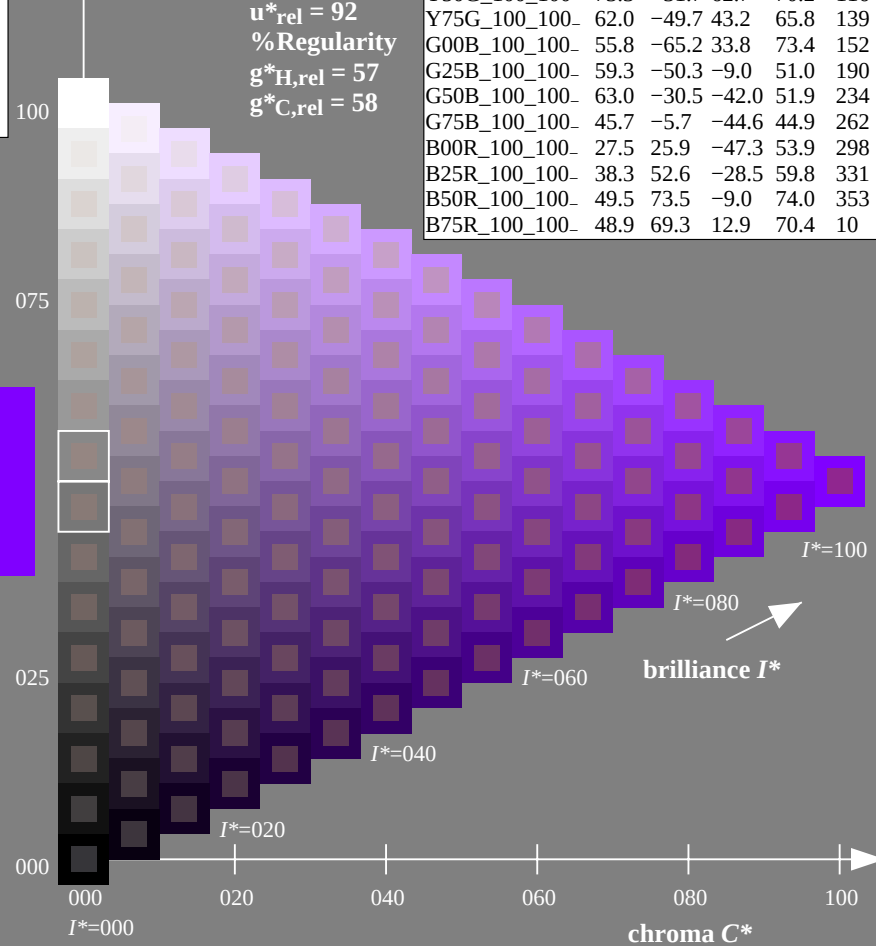
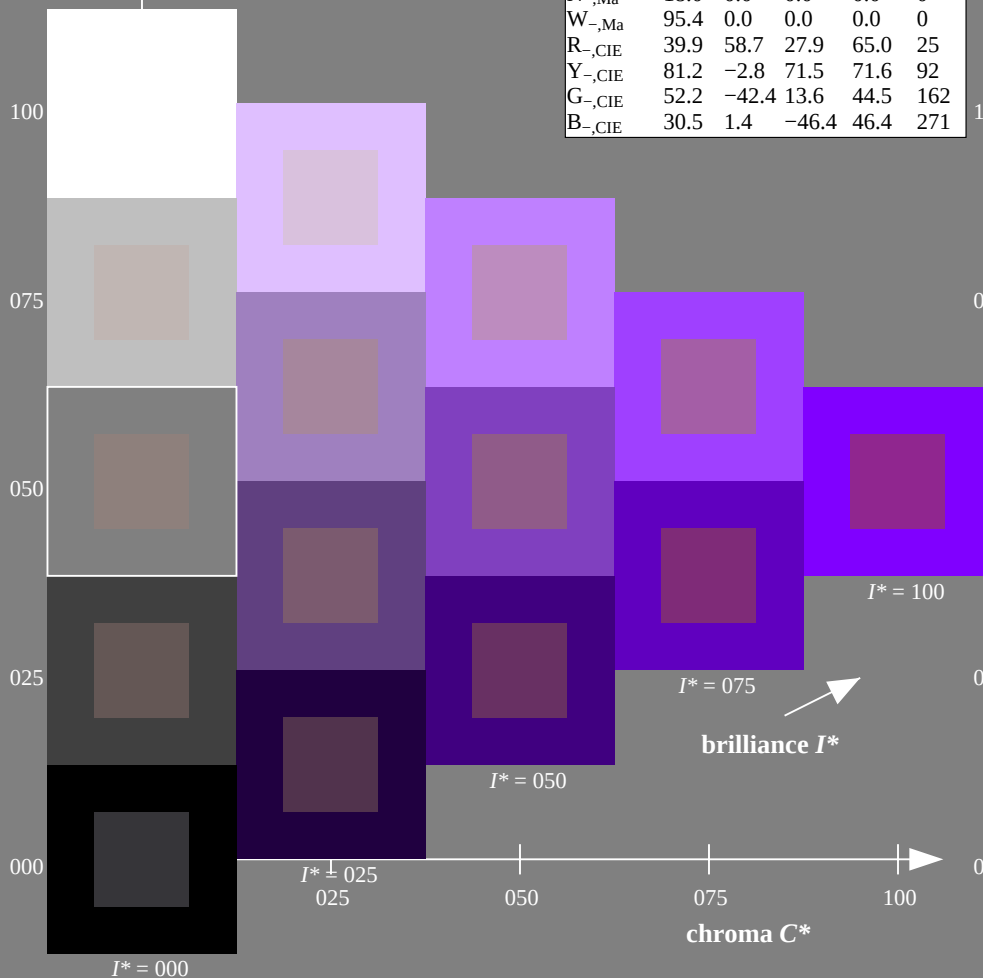
$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_$                          | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R00Y_100_100_                   | 48.4        | 66.1    | 40.2    | 77.3         | 31           |
| R25Y_100_100_                   | 56.8        | 48.0    | 50.5    | 69.6         | 46           |
| R50Y_100_100_                   | 68.6        | 25.0    | 63.9    | 68.6         | 68           |
| R75Y_100_100_                   | 80.6        | 4.8     | 77.2    | 77.3         | 86           |
| Y00G_100_100_                   | 90.2        | -9.6    | 88.2    | 88.7         | 96           |
| Y25G_100_100_                   | 83.2        | -18.4   | 79.9    | 81.9         | 102          |
| Y50G_100_100_                   | 73.3        | -31.7   | 62.7    | 70.2         | 116          |
| Y75G_100_100_                   | 62.0        | -49.7   | 43.2    | 65.8         | 139          |
| G00B_100_100_                   | 55.8        | -65.2   | 33.8    | 73.4         | 152          |
| G25B_100_100_                   | 59.3        | -50.3   | -9.0    | 51.0         | 190          |
| G50B_100_100_                   | 63.0        | -30.5   | -42.0   | 51.9         | 234          |
| G75B_100_100_                   | 45.7        | -5.7    | -44.6   | 44.9         | 262          |
| B00R_100_100_                   | 27.5        | 25.9    | -47.3   | 53.9         | 298          |
| B25R_100_100_                   | 38.3        | 52.6    | -28.5   | 59.8         | 331          |
| B50R_100_100_                   | 49.5        | 73.5    | -9.0    | 74.0         | 353          |
| B75R_100_100_                   | 48.9        | 69.3    | 12.9    | 70.4         | 10           |



TUB-test chart RE20; hue code:  $H^*_ = B25R_-$   
Test chart according to DIN 33872, 3D=1, de=1, sRGB\*

input:  $rgb/cmyk \rightarrow rgb/cmyk$   
output: no change

Input and Output: Television Luminous System TLS00a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 300/360 = 0.83$

$H^*_e = B25R_e$

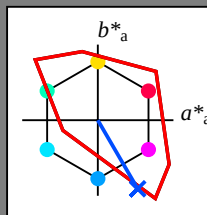
Data for any device (d) or elementary (e) colour:

$HIC^*_e$

hue text for the colours of this page:

$H^*_e = B25R_e$

triangle lightness  $T^*$



TLS00a; adapted (a) CIELAB data

| name       | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------|-------------|---------|---------|--------------|--------------|
| $R_e, Ma$  | 50.9        | 78.3    | 37.3    | 86.7         | 25           |
| $Y_e, Ma$  | 83.7        | -3.4    | 84.5    | 84.5         | 92           |
| $G_e, Ma$  | 85.1        | -64.6   | 20.7    | 67.9         | 162          |
| $C_e, Ma$  | 79.0        | -34.2   | -25.7   | 42.8         | 216          |
| $B_e, Ma$  | 59.2        | 1.7     | -56.6   | 56.6         | 271          |
| $M_e, Ma$  | 57.1        | 94.1    | -57.4   | 110.3        | 328          |
| $N_e, Ma$  | 0.0         | 0.0     | 0.0     | 0.0          | 0            |
| $W_e, Ma$  | 95.4        | 0.0     | 0.0     | 0.0          | 0            |
| $R_e, CIE$ | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| $Y_e, CIE$ | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| $G_e, CIE$ | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| $B_e, CIE$ | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_e, Ma$ : 38 52 -90 104 300

$HIC^*_e, Ma$ : B25R\_100\_100\_e

$rgbic^*_e, Ma$ :

0.0 0.27 1.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

$u^*_{rel} = 158$

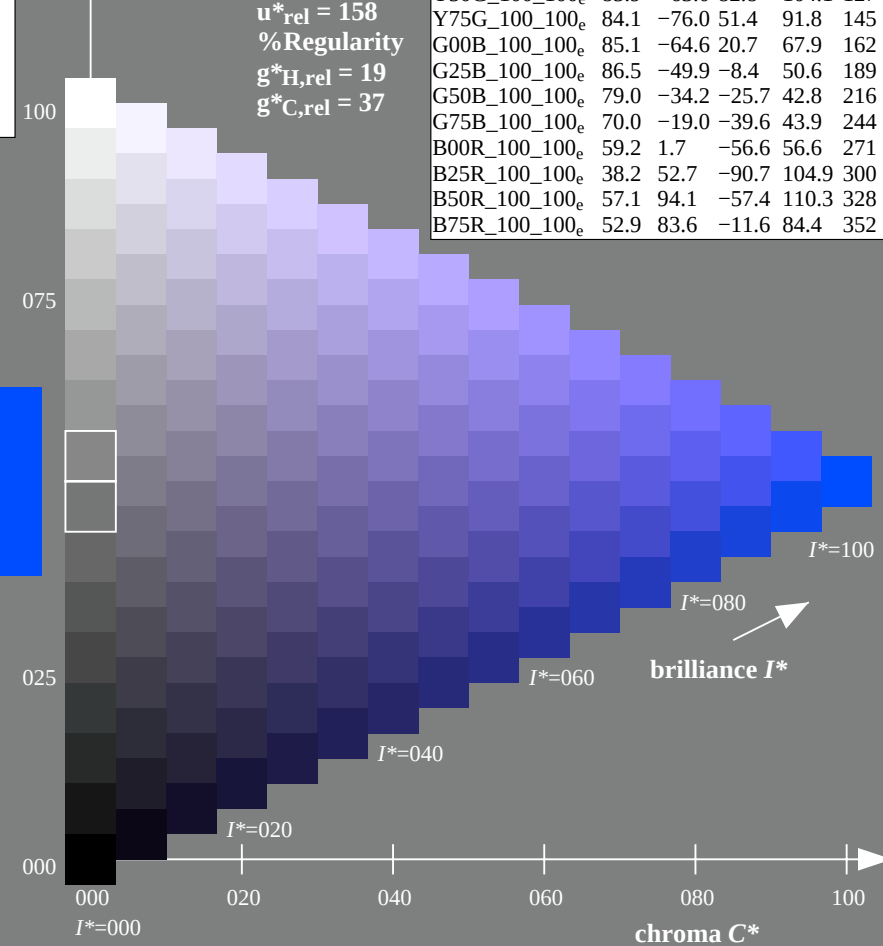
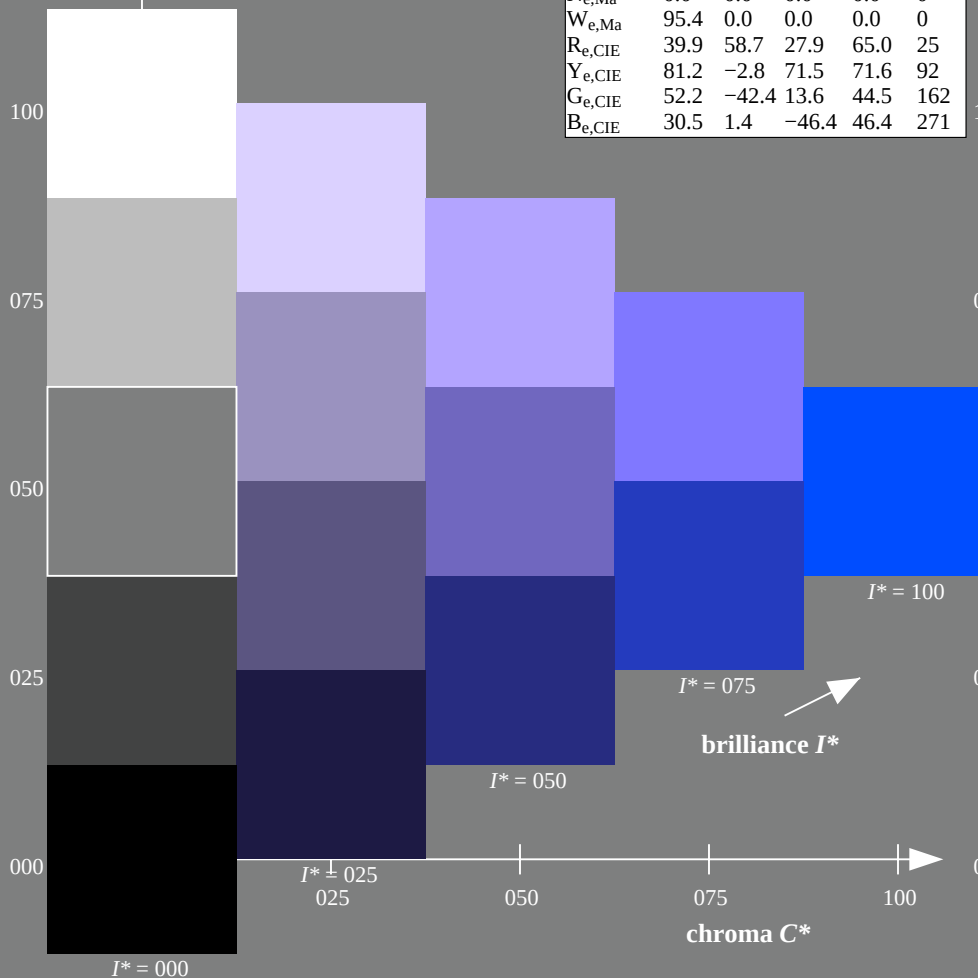
% Regularity

$g^*_{H,rel} = 19$

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

TLS00a; adapted (a) CIELAB data

| $H^*_e$            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| $R00Y\_100\_100_e$ | 50.9        | 78.3    | 37.3    | 86.7         | 25           |
| $R25Y\_100\_100_e$ | 51.3        | 74.4    | 64.8    | 98.7         | 41           |
| $R50Y\_100\_100_e$ | 63.1        | 42.7    | 70.8    | 82.7         | 58           |
| $R75Y\_100\_100_e$ | 73.5        | 18.3    | 77.7    | 79.8         | 76           |
| $Y00G\_100\_100_e$ | 83.7        | -3.4    | 84.5    | 84.5         | 92           |
| $Y25G\_100\_100_e$ | 91.0        | -29.9   | 88.9    | 93.8         | 108          |
| $Y50G\_100\_100_e$ | 85.9        | -63.0   | 82.8    | 104.1        | 127          |
| $Y75G\_100\_100_e$ | 84.1        | -76.0   | 51.4    | 91.8         | 145          |
| $G00B\_100\_100_e$ | 85.1        | -64.6   | 20.7    | 67.9         | 162          |
| $G25B\_100\_100_e$ | 86.5        | -49.9   | -8.4    | 50.6         | 189          |
| $G50B\_100\_100_e$ | 79.0        | -34.2   | -25.7   | 42.8         | 216          |
| $G75B\_100\_100_e$ | 70.0        | -19.0   | -39.6   | 43.9         | 244          |
| $B00R\_100\_100_e$ | 59.2        | 1.7     | -56.6   | 56.6         | 271          |
| $B25R\_100\_100_e$ | 38.2        | 52.7    | -90.7   | 104.9        | 300          |
| $B50R\_100\_100_e$ | 57.1        | 94.1    | -57.4   | 110.3        | 328          |
| $B75R\_100\_100_e$ | 52.9        | 83.6    | -11.6   | 84.4         | 352          |



TUB-test chart RE20; hue code:  $H^*_e=B25R_e$   
Test chart according to DIN 33872, 3D=1, de=1, sRGB\*

input:  $rgb/cmyk \rightarrow rgb_{de}$   
output: 3D-linearization to  $rgb^*_{de}$