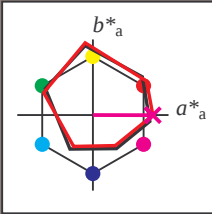


Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 359/360 = 0.99$   $H^*_d = B50R_d$

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

$HIC^*_d$   
hue text for the colours  
of this page:  
 $H^*_d = B50R_d$   
triangle lightness  $T^*$



| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>d</sub> ,Ma              | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| Y <sub>d</sub> ,Ma              | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| G <sub>d</sub> ,Ma              | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| C <sub>d</sub> ,Ma              | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| B <sub>d</sub> ,Ma              | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| M <sub>d</sub> ,Ma              | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| N <sub>d</sub> ,Ma              | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>d</sub> ,Ma              | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>d</sub> ,CIE             | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>d</sub> ,CIE             | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>d</sub> ,CIE             | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>d</sub> ,CIE             | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_d, Ma: 46\ 79\ 0\ 79\ 359$

$HIC^*_d, Ma: B50R\_100\_100_d$

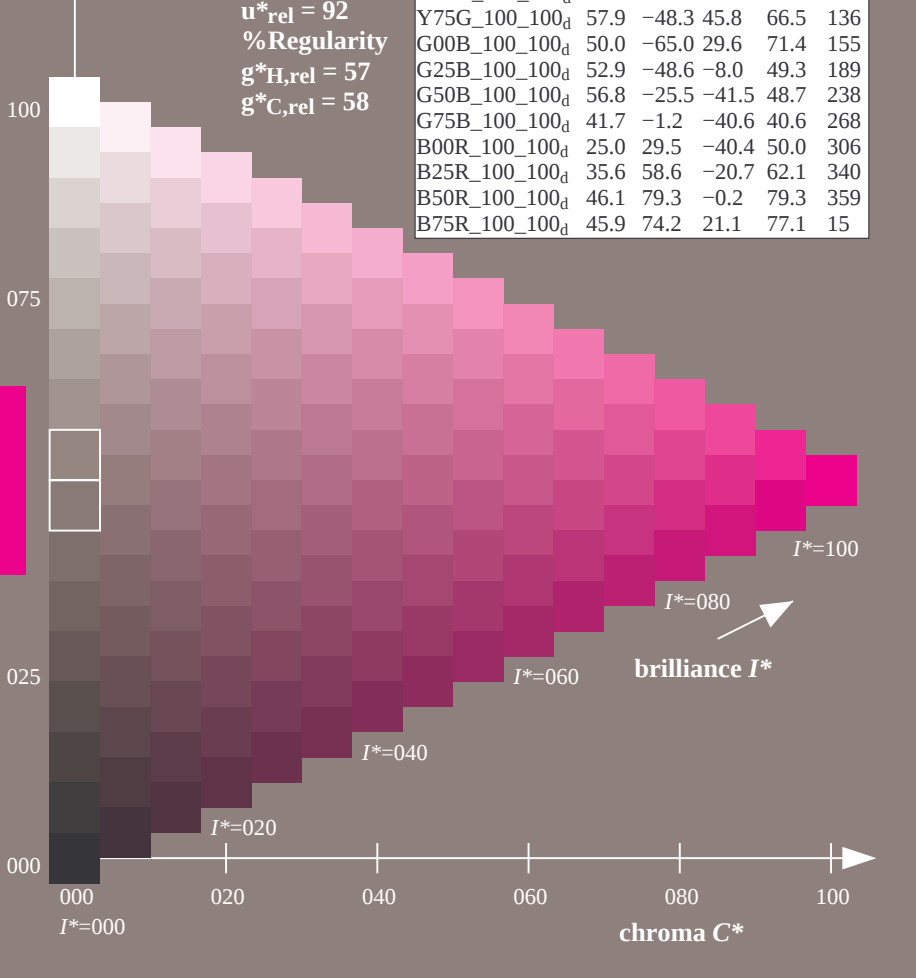
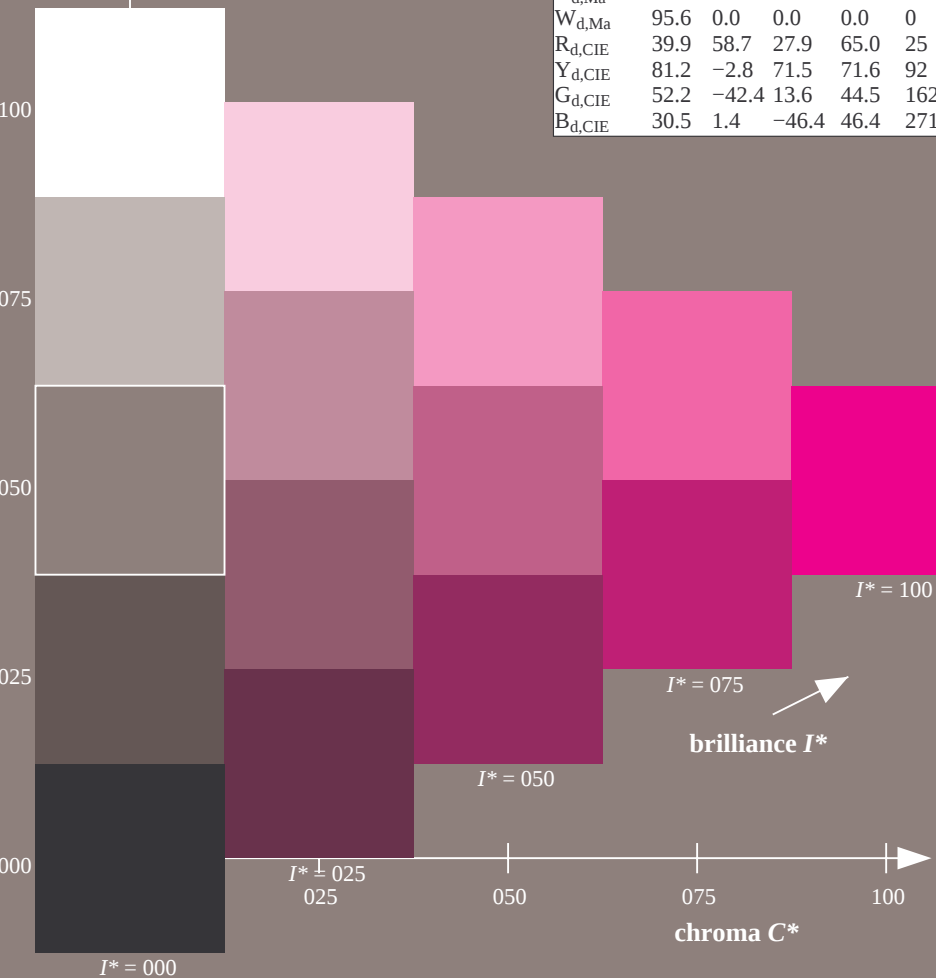
$rgbic^*_d, Ma:$

1.0 0.0 1.0 1.0 1.0

triangle lightness  $T^*$

%Gamut  
 $u^*_{rel} = 92$   
%Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 58$

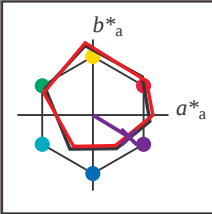
| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_d$                         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R00Y_100_100_d                  | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| R25Y_100_100_d                  | 53.0        | 53.4    | 54.8    | 76.5         | 45           |
| R50Y_100_100_d                  | 64.9        | 28.9    | 68.6    | 74.5         | 67           |
| R75Y_100_100_d                  | 78.6        | 4.3     | 84.7    | 84.8         | 87           |
| Y00G_100_100_d                  | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| Y25G_100_100_d                  | 81.2        | -17.0   | 84.3    | 86.0         | 101          |
| Y50G_100_100_d                  | 70.6        | -29.7   | 66.5    | 72.8         | 114          |
| Y75G_100_100_d                  | 57.9        | -48.3   | 45.8    | 66.5         | 136          |
| G00B_100_100_d                  | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| G25B_100_100_d                  | 52.9        | -48.6   | -8.0    | 49.3         | 189          |
| G50B_100_100_d                  | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| G75B_100_100_d                  | 41.7        | -1.2    | -40.6   | 40.6         | 268          |
| B00R_100_100_d                  | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| B25R_100_100_d                  | 35.6        | 58.6    | -20.7   | 62.1         | 340          |
| B50R_100_100_d                  | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| B75R_100_100_d                  | 45.9        | 74.2    | 21.1    | 77.1         | 15           |



Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 328/360 = 0.91$   $H^*_e = B50R_e$

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

$HIC^*_e$   
hue text for the colours of this page:  
 $H^*_e = B50R_e$   
triangle lightness  $T^*$



| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>e</sub> ,Ma              | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| Y <sub>e</sub> ,Ma              | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| G <sub>e</sub> ,Ma              | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| C <sub>e</sub> ,Ma              | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| B <sub>e</sub> ,Ma              | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| M <sub>e</sub> ,Ma              | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| N <sub>e</sub> ,Ma              | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>e</sub> ,Ma              | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>e</sub> ,CIE             | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>e</sub> ,CIE             | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>e</sub> ,CIE             | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>e</sub> ,CIE             | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{e, Ma}: 31\ 47\ -29\ 55\ 328$

$HIC^*_{e, Ma}: B50R\_100\_100_e$

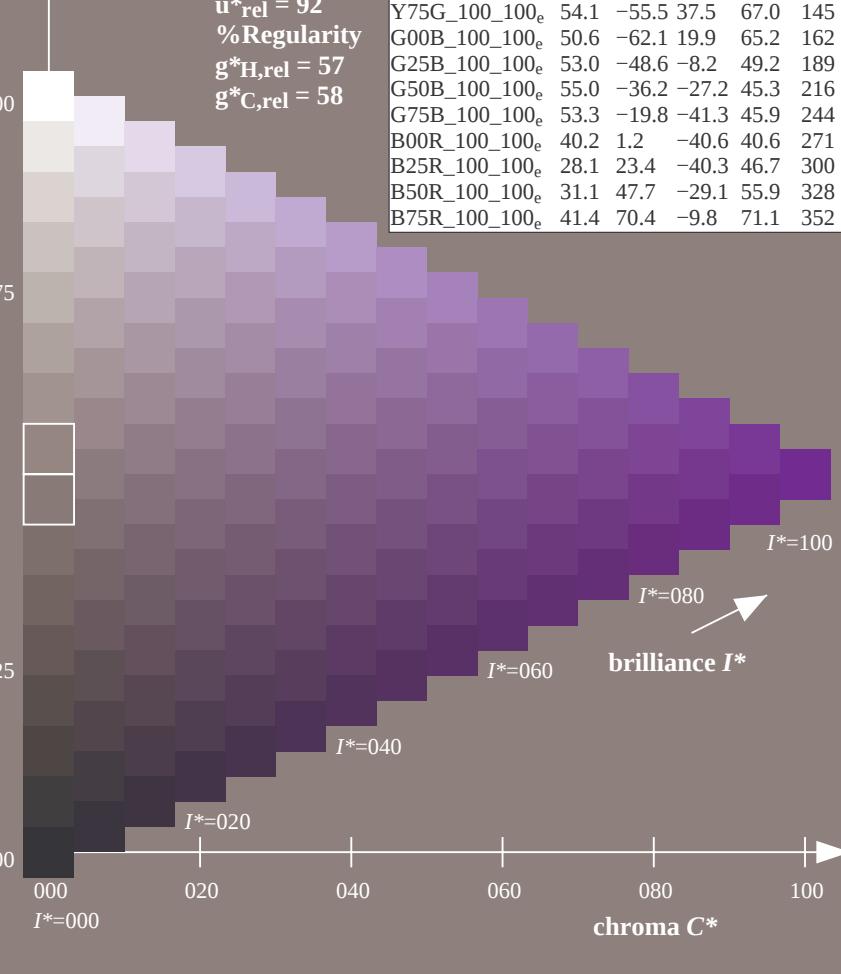
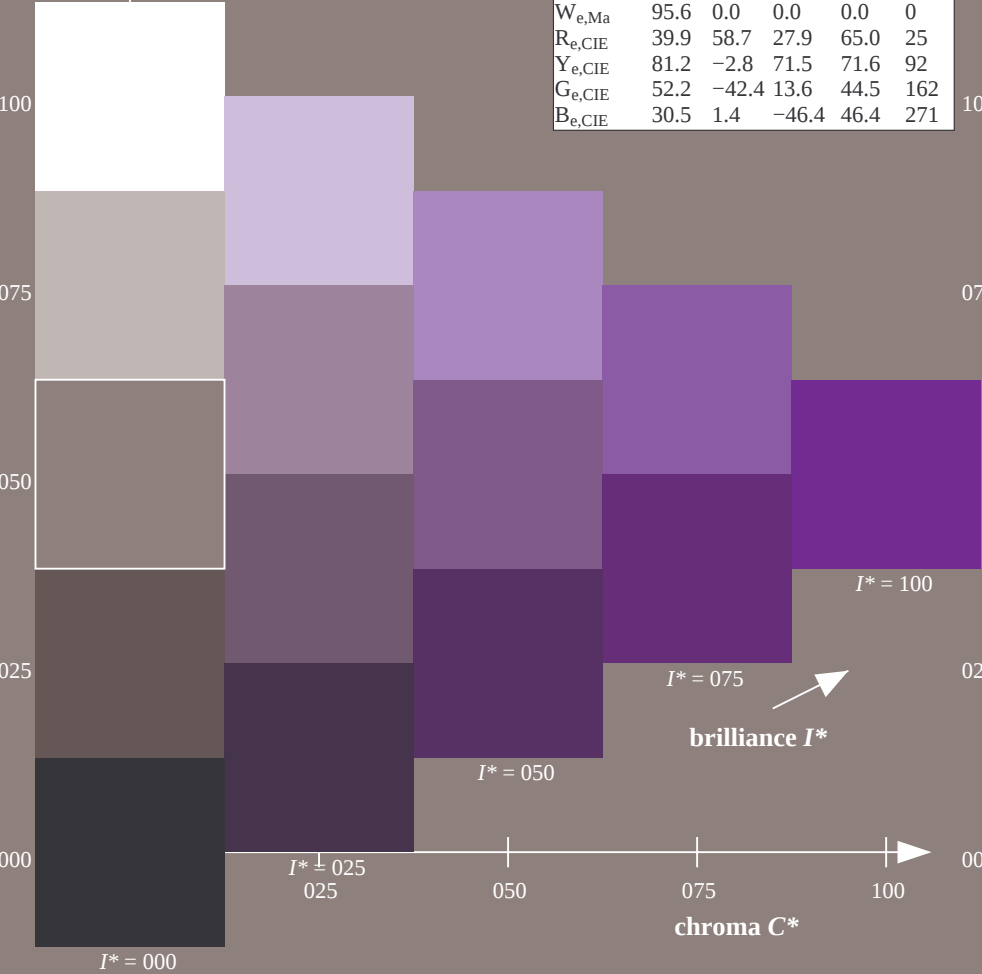
$rgbic^*_{e, Ma}:$

0.32 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 |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_e$                         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R00Y_100_100 <sub>e</sub>       | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| R25Y_100_100 <sub>e</sub>       | 50.5        | 59.2    | 51.6    | 78.6         | 41           |
| R50Y_100_100 <sub>e</sub>       | 60.2        | 38.2    | 63.4    | 74.1         | 58           |
| R75Y_100_100 <sub>e</sub>       | 70.9        | 17.9    | 75.9    | 77.9         | 76           |
| Y00G_100_100 <sub>e</sub>       | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| Y25G_100_100 <sub>e</sub>       | 74.5        | -25.0   | 74.3    | 78.4         | 108          |
| Y50G_100_100 <sub>e</sub>       | 62.6        | -40.9   | 53.8    | 67.6         | 127          |
| Y75G_100_100 <sub>e</sub>       | 54.1        | -55.5   | 37.5    | 67.0         | 145          |
| G00B_100_100 <sub>e</sub>       | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| G25B_100_100 <sub>e</sub>       | 53.0        | -48.6   | -8.2    | 49.2         | 189          |
| G50B_100_100 <sub>e</sub>       | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| G75B_100_100 <sub>e</sub>       | 53.3        | -19.8   | -41.3   | 45.9         | 244          |
| B00R_100_100 <sub>e</sub>       | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| B25R_100_100 <sub>e</sub>       | 28.1        | 23.4    | -40.3   | 46.7         | 300          |
| B50R_100_100 <sub>e</sub>       | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| B75R_100_100 <sub>e</sub>       | 41.4        | 70.4    | -9.8    | 71.1         | 352          |



$$H^*_d = B50R_d$$

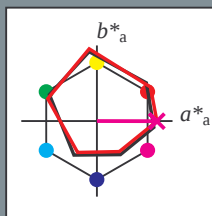
**Data for maximum colour (Ma):**

**LabCh<sup>\*</sup><sub>d, Ma</sub>: 46 79 0 79 359**

**HIC\*d.Ma: B50R 100 100d**

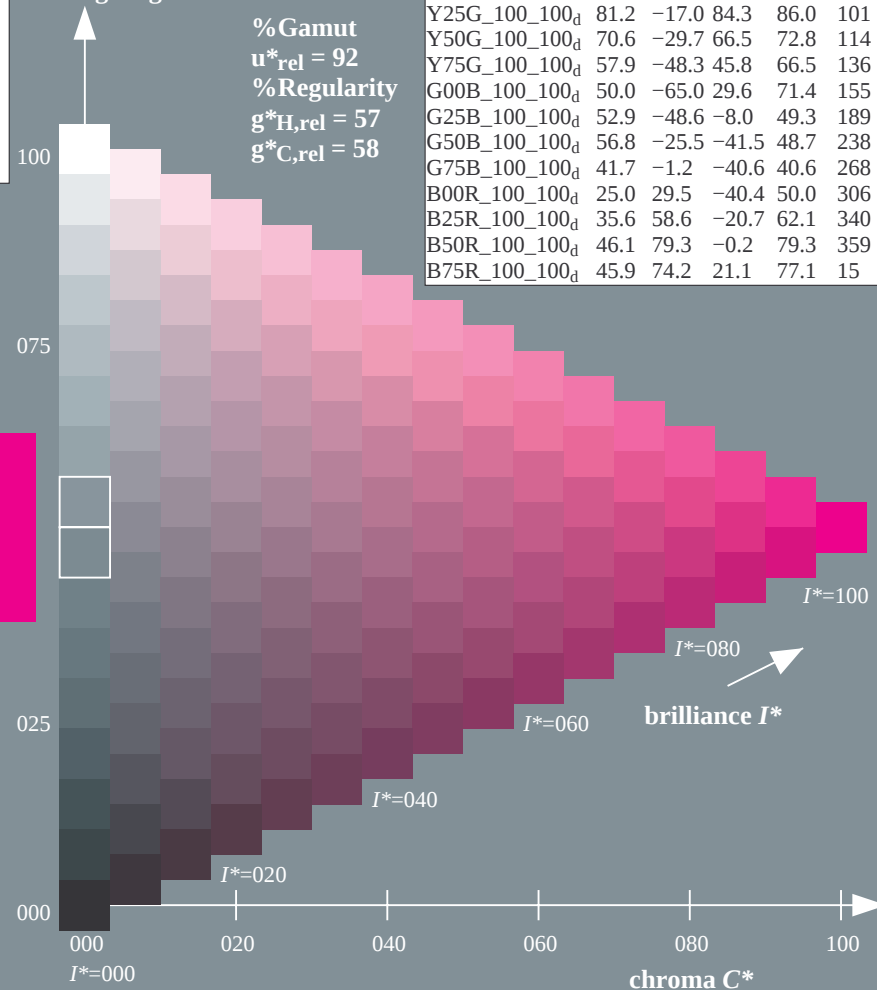
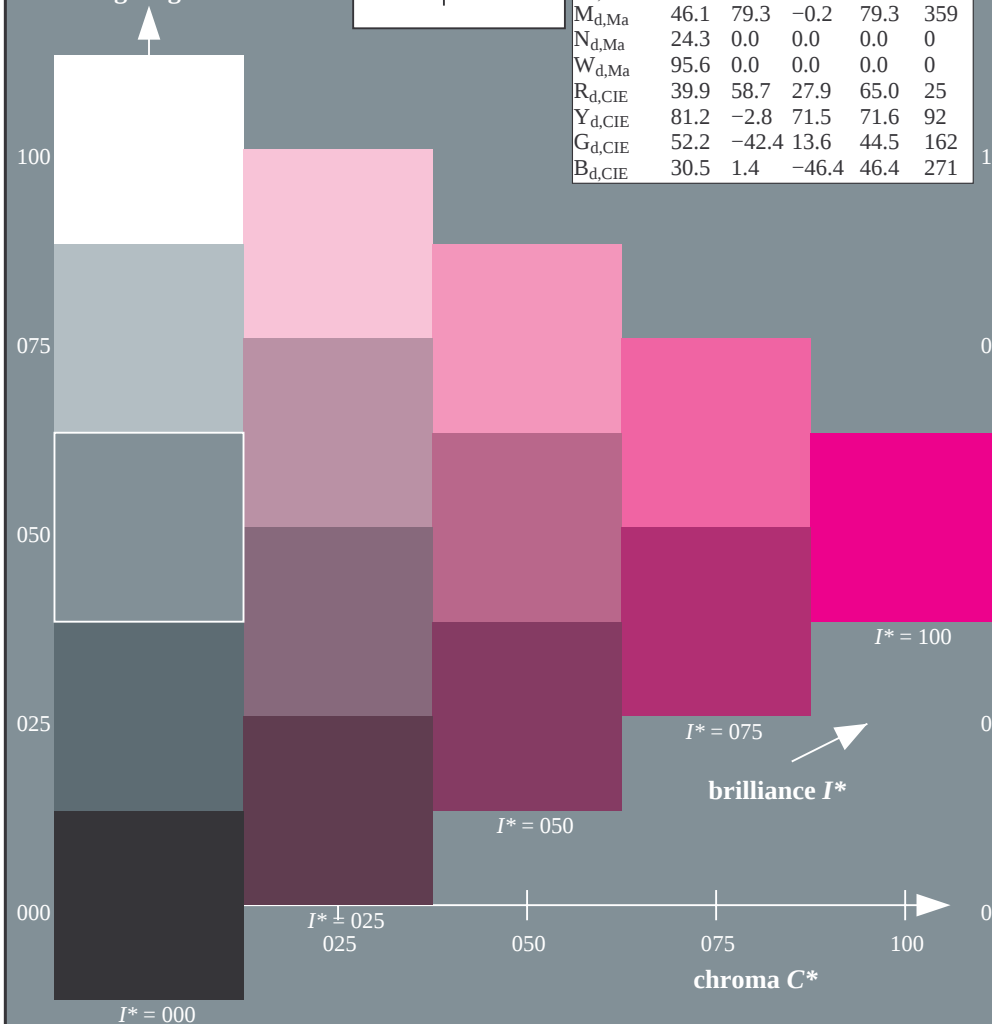
*rgbic*\*d, Ma:

1.0 0.0 1.0 1.0 1.0



| ORS20a; adapted (a) CIELAB data |            |            |            |            |            |
|---------------------------------|------------|------------|------------|------------|------------|
| name                            | $L^*_{ab}$ | $a^*_{ab}$ | $b^*_{ab}$ | $C^*_{ab}$ | $h^*_{ab}$ |
| R <sub>d, Ma</sub>              | 45.4       | 70.9       | 44.8       | 83.9       | 32         |
| Y <sub>d, Ma</sub>              | 87.8       | -10.2      | 95.4       | 96.0       | 96         |
| G <sub>d, Ma</sub>              | 50.0       | -65.0      | 29.6       | 71.4       | 155        |
| C <sub>d, Ma</sub>              | 56.8       | -25.5      | -41.5      | 48.7       | 238        |
| B <sub>d, Ma</sub>              | 25.0       | 29.5       | -40.4      | 50.0       | 306        |
| M <sub>d, Ma</sub>              | 46.1       | 79.3       | -0.2       | 79.3       | 359        |
| N <sub>d, Ma</sub>              | 24.3       | 0.0        | 0.0        | 0.0        | 0          |
| W <sub>d, Ma</sub>              | 95.6       | 0.0        | 0.0        | 0.0        | 0          |
| R <sub>d, CIE</sub>             | 39.9       | 58.7       | 27.9       | 65.0       | 25         |
| Y <sub>d, CIE</sub>             | 81.2       | -2.8       | 71.5       | 71.6       | 92         |
| G <sub>d, CIE</sub>             | 52.2       | -42.4      | 13.6       | 44.5       | 162        |
| B <sub>d, CIE</sub>             | 30.5       | 1.4        | -46.4      | 46.4       | 271        |

| ORS20a; adapted (a) CIELAB data |                   |         |              |              |     |
|---------------------------------|-------------------|---------|--------------|--------------|-----|
| $H^*_d$                         | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |     |
| R00Y_100_100 <sub>d</sub>       | 45.4              | 70.9    | 44.8         | 83.9         | 32  |
| R25Y_100_100 <sub>d</sub>       | 53.0              | 53.4    | 54.8         | 76.5         | 45  |
| R50Y_100_100 <sub>d</sub>       | 64.9              | 28.9    | 68.6         | 74.5         | 67  |
| R75Y_100_100 <sub>d</sub>       | 78.6              | 4.3     | 84.7         | 84.8         | 87  |
| Y00G_100_100 <sub>d</sub>       | 87.8              | -10.2   | 95.4         | 96.0         | 96  |
| Y25G_100_100 <sub>d</sub>       | 81.2              | -17.0   | 84.3         | 86.0         | 101 |
| Y50G_100_100 <sub>d</sub>       | 70.6              | -29.7   | 66.5         | 72.8         | 114 |
| Y75G_100_100 <sub>d</sub>       | 57.9              | -48.3   | 45.8         | 66.5         | 136 |
| G00B_100_100 <sub>d</sub>       | 50.0              | -65.0   | 29.6         | 71.4         | 155 |
| G25B_100_100 <sub>d</sub>       | 52.9              | -48.6   | -8.0         | 49.3         | 189 |
| G50B_100_100 <sub>d</sub>       | 56.8              | -25.5   | -41.5        | 48.7         | 238 |
| G75B_100_100 <sub>d</sub>       | 41.7              | -1.2    | -40.6        | 40.6         | 268 |
| B00R_100_100 <sub>d</sub>       | 25.0              | 29.5    | -40.4        | 50.0         | 306 |
| B25R_100_100 <sub>d</sub>       | 35.6              | 58.6    | -20.7        | 62.1         | 340 |
| B50R_100_100 <sub>d</sub>       | 46.1              | 79.3    | -0.2         | 79.3         | 359 |
| B75R_100_100 <sub>d</sub>       | 45.9              | 74.2    | 21.1         | 77.1         | 15  |

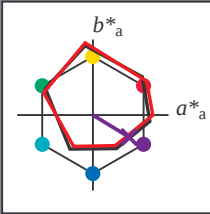


Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 328/360 = 0.91$

$H^*_e = B50R_e$

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

$HIC^*_e$   
hue text for the colours of this page:  
 $H^*_e = B50R_e$   
triangle lightness  $T^*$



| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>e</sub> ,Ma              | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| Y <sub>e</sub> ,Ma              | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| G <sub>e</sub> ,Ma              | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| C <sub>e</sub> ,Ma              | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| B <sub>e</sub> ,Ma              | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| M <sub>e</sub> ,Ma              | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| N <sub>e</sub> ,Ma              | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>e</sub> ,Ma              | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>e</sub> ,CIE             | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>e</sub> ,CIE             | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>e</sub> ,CIE             | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>e</sub> ,CIE             | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{e, Ma}: 31\ 47\ -29\ 55\ 328$

$HIC^*_{e, Ma}: B50R\_100\_100_e$

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

0.32 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 |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_e$                         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R00Y_100_100 <sub>e</sub>       | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| R25Y_100_100 <sub>e</sub>       | 50.5        | 59.2    | 51.6    | 78.6         | 41           |
| R50Y_100_100 <sub>e</sub>       | 60.2        | 38.2    | 63.4    | 74.1         | 58           |
| R75Y_100_100 <sub>e</sub>       | 70.9        | 17.9    | 75.9    | 77.9         | 76           |
| Y00G_100_100 <sub>e</sub>       | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| Y25G_100_100 <sub>e</sub>       | 74.5        | -25.0   | 74.3    | 78.4         | 108          |
| Y50G_100_100 <sub>e</sub>       | 62.6        | -40.9   | 53.8    | 67.6         | 127          |
| Y75G_100_100 <sub>e</sub>       | 54.1        | -55.5   | 37.5    | 67.0         | 145          |
| G00B_100_100 <sub>e</sub>       | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| G25B_100_100 <sub>e</sub>       | 53.0        | -48.6   | -8.2    | 49.2         | 189          |
| G50B_100_100 <sub>e</sub>       | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| G75B_100_100 <sub>e</sub>       | 53.3        | -19.8   | -41.3   | 45.9         | 244          |
| B00R_100_100 <sub>e</sub>       | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| B25R_100_100 <sub>e</sub>       | 28.1        | 23.4    | -40.3   | 46.7         | 300          |
| B50R_100_100 <sub>e</sub>       | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| B75R_100_100 <sub>e</sub>       | 41.4        | 70.4    | -9.8    | 71.1         | 352          |

