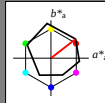


# Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 38/360 = 0.105$   
 $lab^*tch$  and  $lab^*nch$

D65: hue O  
LCH\*Ma: 48 83 38  
olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 93$   
%Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

## ORS18; adapted (a) CIELAB data

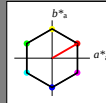
|         | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---------|---------------|---------|---------|--------------|--------------|
| OMa     | 47.94         | 65.39   | 50.52   | 82.63        | 38           |
| YMa     | 90.37         | -10.26  | 91.75   | 92.32        | 96           |
| LMa     | 50.9          | -62.83  | 34.96   | 71.91        | 151          |
| CMa     | 58.62         | -30.34  | -45.01  | 54.3         | 236          |
| VMa     | 25.72         | 31.1    | -44.4   | 54.22        | 305          |
| MMa     | 48.13         | 75.28   | -8.36   | 75.74        | 354          |
| NMa     | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| WMa     | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE    | 39.92         | 58.66   | 26.98   | 64.57        | 25           |
| GCIE    | 81.26         | -2.16   | 67.76   | 67.79        | 92           |
| GCIE223 | -42.25        | 11.76   | 43.87   | 164          |              |
| BCIE    | 30.57         | 1.15    | -46.84  | 46.86        | 271          |

# Output: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 30/360 = 0.083$   
 $lab^*tch$  and  $lab^*nch$

D65: hue O  
LCH\*Ma: 57 77 30  
olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 100$   
%Regularity  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

## SRS18; adapted (a) CIELAB data

|         | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---------|---------------|---------|---------|--------------|--------------|
| OMa     | 56.71         | 67.03   | 38.7    | 77.4         | 30           |
| YMa     | 56.71         | 0.0     | 77.4    | 77.4         | 90           |
| LMa     | 56.71         | -67.02  | 38.7    | 77.4         | 150          |
| CMa     | 56.71         | -67.02  | -38.69  | 77.4         | 210          |
| VMa     | 56.71         | 0.0     | -77.39  | 77.4         | 270          |
| MMa     | 56.71         | 67.03   | -38.69  | 77.4         | 330          |
| 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           |
| GCIE    | 81.26         | -2.88   | 71.56   | 71.62        | 92           |
| GCIE223 | -42.41        | 13.6    | 44.55   | 162          |              |
| BCIE    | 30.57         | 1.41    | -46.46  | 46.49        | 272          |

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 0.5 0.5 (0.5)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TCHe 99.99 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.5)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LABa 56.72 0.0 0.0  
LAB\*TCHe 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*TCHe 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -  
relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 1.0 0.5 0.5 (1.0)  
cmyn3\* 0.0 0.5 0.5 (0.0)  
olvi4\* 1.0 0.5 0.5 (0.5)  
cmyn4\* 0.0 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.06 33.51 19.35  
LAB\*LABa 76.06 33.51 19.35  
LAB\*TCHe 75.0 38.69 30.0

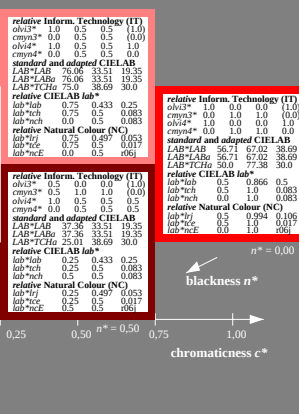
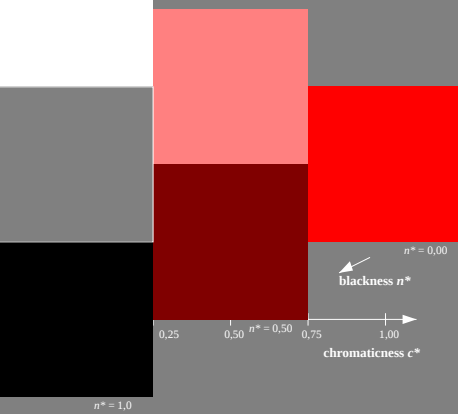
relative CIELAB lab\*  
lab\*lab 0.75 0.433 0.25  
lab\*tch 0.75 0.5 0.083  
lab\*nch 0.0 0.5 0.083  
relative Natural Colour (NC)  
lab\*lrj 0.75 0.497 0.053  
lab\*tce 0.75 0.5 0.017  
lab\*nce 0.0 0.5 0.061

relative Inform. Technology (IT)  
olvi3\* 0.5 0.0 0.0 (1.0)  
cmyn3\* 0.5 1.0 1.0 (0.0)  
olvi4\* 1.0 0.5 0.5 (0.5)  
cmyn4\* 0.0 0.5 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.36 33.51 19.35  
LAB\*LABa 37.36 33.51 19.35  
LAB\*TCHe 25.01 38.69 30.0

relative CIELAB lab\*  
lab\*lab 0.25 0.433 0.25  
lab\*tch 0.25 0.5 0.083  
lab\*nch 0.5 1.0 0.083  
relative Natural Colour (NC)  
lab\*lrj 0.25 0.497 0.053  
lab\*tce 0.25 0.5 0.017  
lab\*nce 0.5 0.5 0.061

relative Inform. Technology (IT)  
olvi3\* 1.0 0.0 0.0 (1.0)  
cmyn3\* 0.0 1.0 1.0 (0.0)  
olvi4\* 1.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.71 67.02 38.69  
LAB\*LABa 56.71 67.02 38.69  
LAB\*TCHe 50.0 77.38 30.0

relative CIELAB lab\*  
lab\*lab 0.5 0.866 0.5  
lab\*tch 0.5 1.0 0.083  
lab\*nch 0.0 1.0 0.083  
relative Natural Colour (NC)  
lab\*lrj 0.5 0.994 0.106  
lab\*tce 0.5 1.0 0.017  
lab\*nce 0.0 1.0 0.061



NE02-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)

3 step scales for constant CIELAB hue 30/360 = 0.083 (right)

BAM-test chart NE02; Colorimetric systems ORS18 & SRS18  
D65: 3 step colour scales and coordinate data for 10 hues

input: olv\* setrgbcolor  
output: no change compared to input