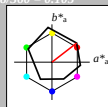


# Input: Colorimetric Reflective System ORS18

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  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

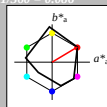
| ORS18; adapted (a) CIELAB data |         |         |              |              |     |  |
|--------------------------------|---------|---------|--------------|--------------|-----|--|
| $L^* = L^*_a$                  | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |     |  |
| OMa                            | 47.94   | 65.37   | 50.52        | 82.62        | 38  |  |
| YMa                            | 90.37   | -10.27  | 91.77        | 92.34        | 96  |  |
| LYMa                           | 50.9    | -62.79  | 34.95        | 71.87        | 151 |  |
| CMa                            | 58.62   | -30.35  | -45.01       | 54.3         | 236 |  |
| VMa                            | 25.71   | 31.11   | -44.42       | 54.24        | 305 |  |
| MMa                            | 48.13   | 75.27   | -8.35        | 75.73        | 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        | 64.56        | 25  |  |
| JCIE                           | 81.26   | -2.17   | 67.76        | 67.79        | 92  |  |
| GCIE                           | 52.23   | -42.26  | 11.75        | 84.87        | 164 |  |
| BCIE                           | 30.57   | 1.15    | -46.84       | 46.87        | 271 |  |

# Output: Colorimetric Reflective System MRS18a

for hue  $h^* = lab^*h = 31/360 = 0.086$   
 $lab^*tch$  and  $lab^*nch$

D65: hue R  
LCH\*Ma: 50 78 31  
olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 92$   
%Regularity  
 $g^*_{H,rel} = 42$   
 $g^*_{C,rel} = 49$

| MRS18a; adapted (a) CIELAB data |         |         |              |              |     |  |
|---------------------------------|---------|---------|--------------|--------------|-----|--|
| $L^* = L^*_a$                   | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |     |  |
| RMa                             | 49.63   | 66.8    | 40.02        | 77.87        | 31  |  |
| JMa                             | 90.7    | -7.27   | 93.19        | 93.48        | 94  |  |
| GMa                             | 52.11   | -69.93  | 11.26        | 70.85        | 171 |  |
| G50BMa                          | 45.03   | -36.65  | -27.13       | 45.61        | 217 |  |
| BMa                             | 36.65   | 23.26   | -62.27       | 66.49        | 290 |  |
| B50RMa                          | 34.94   | 57.27   | -43.6        | 71.99        | 323 |  |
| NMa                             | 18.01   | 0.0     | 0.0          | 0.0          | 0   |  |
| WMa                             | 95.41   | 0.0     | 0.0          | 0.0          | 0   |  |
| RCIE                            | 39.92   | 58.67   | 27.97        | 64.59        | 25  |  |
| JCIE                            | 81.26   | -2.91   | 71.56        | 71.62        | 92  |  |
| GCIE                            | 52.23   | -42.47  | 13.58        | 44.6         | 162 |  |
| BCIE                            | 30.57   | 1.33    | -46.48       | 46.51        | 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 | 1.0 | 1.0 | (1.0) |  |  |
| cmyn4*                           | 0.0 | 0.0 | 0.0 | (0.0) |  |  |

| standard and adapted CIELAB |       |      |     |  |  |  |
|-----------------------------|-------|------|-----|--|--|--|
| LAB*LAB                     | 95.41 | 0.01 | 0.0 |  |  |  |
| LAB*LABa                    | 95.41 | 0.0  | 0.0 |  |  |  |
| LAB*TCHa                    | 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 | -   |  |  |  |
| 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 | (0.0) |  |  |
| olvi4*                           | 1.0 | 1.0 | 1.0 | 0.5   |  |  |
| cmyn4*                           | 0.0 | 0.0 | 0.0 | 0.5   |  |  |

| standard and adapted CIELAB |       |      |     |  |  |  |
|-----------------------------|-------|------|-----|--|--|--|
| LAB*LAB                     | 56.71 | 0.05 | 0.0 |  |  |  |
| LAB*LABa                    | 56.71 | 0.0  | 0.0 |  |  |  |
| LAB*TCHa                    | 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 | -   |  |  |  |
| 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                     | 18.02 | 0.1  | 0.02 |  |  |  |
| LAB*LABa                    | 18.02 | 0.0  | 0.0  |  |  |  |
| LAB*TCHa                    | 0.01  | 0.01 | -    |  |  |  |

| 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 | 1.0   |  |  |
| cmyn4*                           | 0.0 | 0.5 | 0.5 | 0.0   |  |  |

| standard and adapted CIELAB |       |       |       |  |  |  |
|-----------------------------|-------|-------|-------|--|--|--|
| LAB*LAB                     | 72.52 | 33.43 | 20.01 |  |  |  |
| LAB*LABa                    | 72.52 | 33.39 | 20.01 |  |  |  |
| LAB*TCHa                    | 75.0  | 38.93 | 30.93 |  |  |  |

| relative CIELAB lab* |       |       |       |  |  |  |
|----------------------|-------|-------|-------|--|--|--|
| lab*lab              | 0.704 | 0.429 | 0.257 |  |  |  |
| lab*tch              | 0.75  | 0.5   | 0.086 |  |  |  |
| lab*nch              | 0.0   | 0.5   | 0.086 |  |  |  |
| lab*lrj              | 0.704 | 0.496 | 0.064 |  |  |  |
| lab*tce              | 0.75  | 0.5   | 0.02  |  |  |  |
| lab*nce              | 0.0   | 0.5   | 0.086 |  |  |  |

| 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 | 0.5   |  |  |

| standard and adapted CIELAB |       |       |       |  |  |  |
|-----------------------------|-------|-------|-------|--|--|--|
| LAB*LAB                     | 33.85 | 33.47 | 20.03 |  |  |  |
| LAB*LABa                    | 33.82 | 33.39 | 20.01 |  |  |  |
| LAB*TCHa                    | 25.01 | 38.93 | 30.93 |  |  |  |

| relative CIELAB lab* |       |       |       |  |  |  |
|----------------------|-------|-------|-------|--|--|--|
| lab*lab              | 0.204 | 0.429 | 0.257 |  |  |  |
| lab*tch              | 0.25  | 0.5   | 0.086 |  |  |  |
| lab*nch              | 0.5   | 1.0   | 0.086 |  |  |  |
| lab*lrj              | 0.204 | 0.496 | 0.064 |  |  |  |
| lab*tce              | 0.25  | 0.5   | 0.02  |  |  |  |
| lab*nce              | 0.5   | 0.5   | 0.086 |  |  |  |

| 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 | 1.0 | 1.0 | 0.0   |  |  |

| standard and adapted CIELAB |       |       |       |  |  |  |
|-----------------------------|-------|-------|-------|--|--|--|
| LAB*LAB                     | 49.63 | 66.84 | 40.03 |  |  |  |
| LAB*LABa                    | 49.63 | 66.78 | 40.02 |  |  |  |
| LAB*TCHa                    | 50.0  | 77.85 | 30.93 |  |  |  |

| relative CIELAB lab* |       |       |       |  |  |  |
|----------------------|-------|-------|-------|--|--|--|
| lab*lab              | 0.409 | 0.858 | 0.514 |  |  |  |
| lab*tch              | 0.409 | 0.992 | 0.128 |  |  |  |
| lab*nch              | 0.5   | 1.0   | 0.02  |  |  |  |
| lab*lrj              | 0.5   | 1.0   | 0.02  |  |  |  |
| lab*tce              | 0.5   | 1.0   | 0.02  |  |  |  |
| lab*nce              | 0.0   | 1.0   | 0.086 |  |  |  |

| relative Natural Colour (NC) |       |       |       |  |  |  |
|------------------------------|-------|-------|-------|--|--|--|
| lab*lrj                      | 0.409 | 0.992 | 0.128 |  |  |  |
| lab*tce                      | 0.5   | 1.0   | 0.02  |  |  |  |
| lab*nce                      | 0.0   | 1.0   | 0.086 |  |  |  |

010-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)

BAM-test chart TE01; Colorimetric systems ORS18 & MRS18a  
D65: 3 step colour scales and coordinate data for 10 hues

3 step scales for constant CIELAB hue 31/360 = 0.086 (right)

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