

# Input: Colorimetric Reflective System MRS18

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

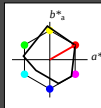
$lab^*ch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 50 77 30

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 91$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

MRS18; adapted (a) CIELAB data

|                     | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>     | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| Y <sub>Ma</sub>     | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>     | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| B <sub>Ma</sub>     | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B <sub>50R</sub> Ma | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>     | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>     | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>    | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| Y <sub>CIE</sub>    | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>    | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>    | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

# Output: Colorimetric Reflective System ORS18

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

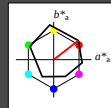
$lab^*ch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 93$

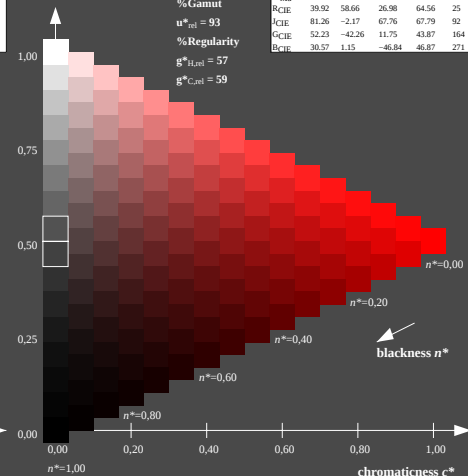
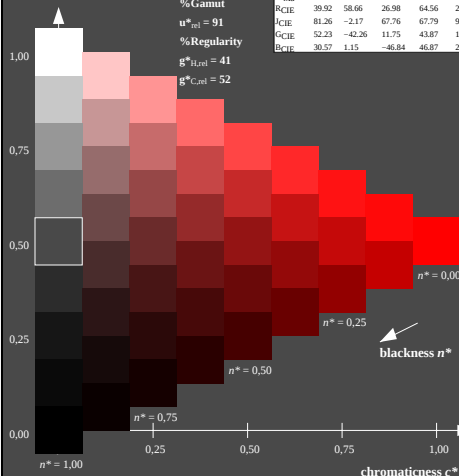
%Regularity

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

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

ORS18; adapted (a) CIELAB data

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| Y <sub>Ma</sub>  | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| L <sub>Ma</sub>  | 50.9        | -62.79  | 34.95   | 71.87        | 151          |
| C <sub>Ma</sub>  | 58.62       | -30.35  | -45.01  | 54.3         | 236          |
| V <sub>Ma</sub>  | 25.71       | 31.11   | -44.42  | 54.24        | 305          |
| M <sub>Ma</sub>  | 48.13       | 75.27   | -8.35   | 75.73        | 354          |
| N <sub>Ma</sub>  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.66   | 26.98   | 64.56        | 25           |
| Y <sub>CIE</sub> | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub> | 30.57       | 1.15    | -46.84  | 46.87        | 271          |



UE950-7, 9 step scales for constant CIELAB hue 30/360 = 0.083 (left)

16 step scales for constant CIELAB hue 38/360 = 0.105 (right)

BAM-test chart UE95; Colorimetric systems MRS18 & ORS18  
D65: 9 and 16 step colour scales for 10 hues

input: `cmy0* setcmycolor`  
output: `olv* setrgbcolor / w* setgray`