

Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 38/360 = 0.105$

LAB\*LCH, LAB\*NCH

D65: hue O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0

CIELAB lightness  $L^*$

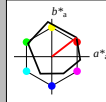
%Gamut

$u^*_{\text{rel}} = 93$

%Regularity

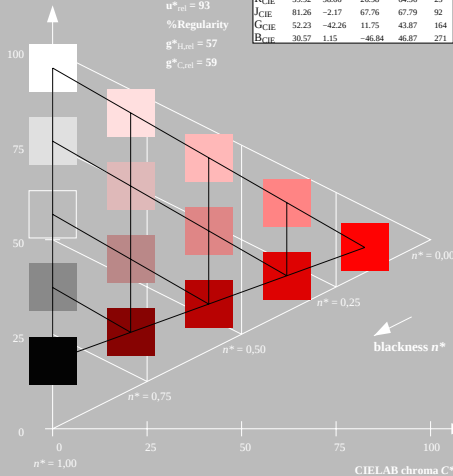
$g^*_{H,\text{rel}} = 57$

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



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           |
| LMa  | 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          |
| NMa  | 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   | 43.87        | 164          |
| BCIE | 30.57       | 1.15    | -46.84  | 46.87        | 271          |



TE320-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

Output: Colorimetric Reflective System NRS11

for hue  $h^* = \text{lab}^*h = 24/360 = 0.067$

LAB\*LCH, LAB\*NCH

D65: hue R

LCH\*Ma: 53 84 24

olv\*Ma: 1.0 0.0 0.0

CIELAB lightness  $L^*$

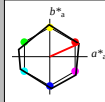
%Gamut

$u^*_{\text{rel}} = 119$

%Regularity

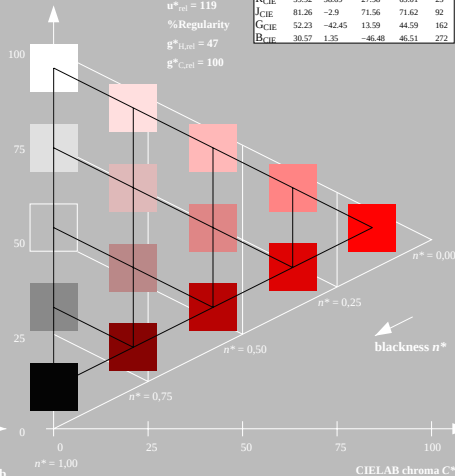
$g^*_{H,\text{rel}} = 47$

$g^*_{C,\text{rel}} = 100$



NRS11; adapted (a) CIELAB data

|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| RMa                | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa                | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa                | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50B <sub>Ma</sub> | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| B <sub>Ma</sub>    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50R <sub>Ma</sub> | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa                | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE               | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE               | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE               | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE               | 30.57       | 1.35    | -46.48  | 46.51        | 272          |



5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

BAM-test chart TE32; Colorimetric systems ORS18 & NRS11  
D65: Coordinate systems of 5 step colour scales for 10 hues

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