

# Input: Colorimetric Reflective System NRS11

for hue  $h^* = lab^*h = 24/360 = 0.067$

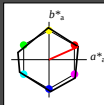
$lab^*ch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 53 84 24

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

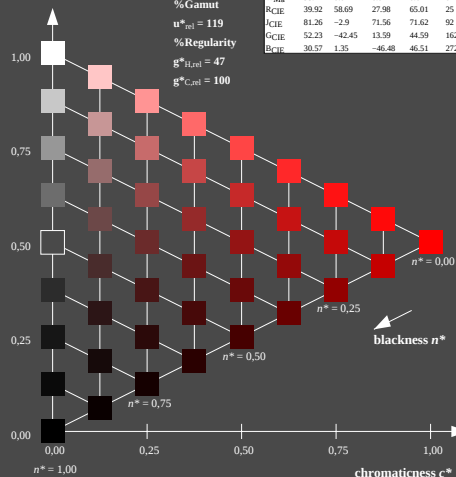
$u^*_{rel} = 119$

%Regularity

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

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

| 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  |
| YMa                            | 53.2    | -1.51   | 84.38        | 84.39        | 91  |
| GMa                            | 53.2    | -82.27  | 18.98        | 84.44        | 167 |
| G50BMa                         | 53.2    | -77.72  | -32.98       | 84.44        | 203 |
| BMa                            | 53.2    | 4.37    | -84.28       | 84.41        | 273 |
| B50RMa                         | 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  |
| ICIE                           | 81.26   | -2.9    | 71.56        | 71.62        | 92  |
| GCIE                           | 52.23   | -42.45  | 13.99        | 44.59        | 162 |
| BCIE                           | 30.57   | 1.35    | -46.48       | 46.51        | 272 |



# Output: Colorimetric Reflective System ORS18

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

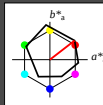
$lab^*ch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

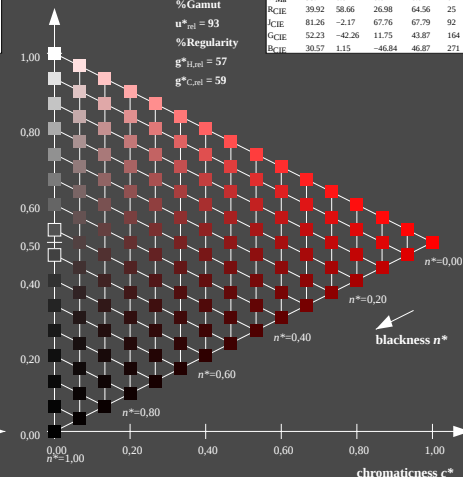
$u^*_{rel} = 93$

%Regularity

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

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

| ORS18; adapted (a) CIELAB data |         |         |              |              |     |
|--------------------------------|---------|---------|--------------|--------------|-----|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |     |
| 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 |
| WMa                            | 18.01   | 0.0     | 0.0          | 0.0          | 0   |
| RCIE                           | 39.92   | 58.66   | 26.98        | 64.56        | 25  |
| ICIE                           | 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 |



TE77-7, 9 step scales for constant CIELAB hue 24/360 = 0.067 (left)

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

BAM-test chart TE77; Colorimetric systems NRS11 & ORS18  
D65: 9 and 16 step colour scales for 10 hues

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