

# Input: Colorimetric Reflective System MRS18a

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

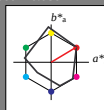
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 50 78 31

rgb\*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            |
| R <sub>CIE</sub> | 39.92         | 58.66   | 27.97   | 64.99        | 25           |
| J <sub>CIE</sub> | 81.26         | -2.91   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23         | -42.47  | 13.58   | 44.6         | 162          |
| B <sub>CIE</sub> | 30.57         | 1.33    | -46.48  | 46.51        | 272          |

# Output: Colorimetric Reflective System ORS18

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

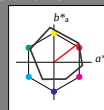
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 83 38

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 93$

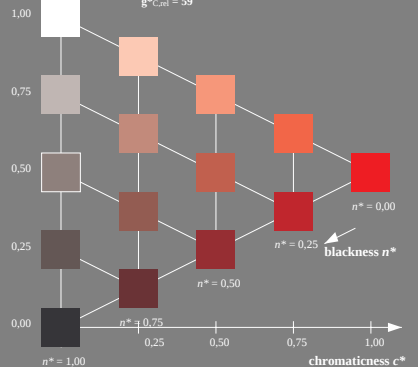
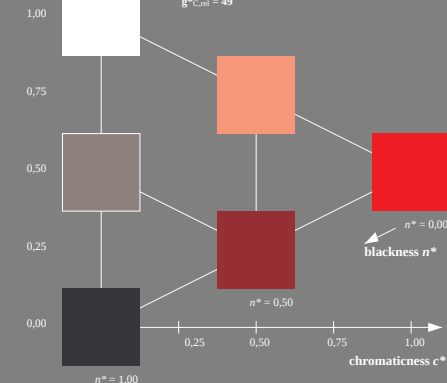
%Regularity

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

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

## ORS18; adapted (a) CIELAB data

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| RMa              | 47.94         | 65.37   | 50.52   | 82.62        | 38           |
| JMa              | 90.37         | -10.27  | 91.77   | 92.34        | 96           |
| GMa              | 50.9          | -62.79  | 34.95   | 71.87        | 151          |
| G50BMa           | 58.62         | -30.35  | -45.01  | 54.3         | 236          |
| BMa              | 25.71         | 31.11   | -44.42  | 54.24        | 305          |
| B50RMa           | 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            |
| R <sub>CIE</sub> | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| J <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          |



UE660-7, 3 step scales for constant CIELAB hue 31/360 = 0.086 (left)

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

BAM-test chart UE66; Colorimetric systems MRS18a & ORS18 input: cmy0\* setcmycolor  
D65: 3 and 5 step colour scales for 10 hues

output: no change compared to input