

Input: Colorimetric Reflective System ORS18

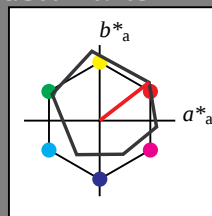
for hue  $h^* = lab \cdot h = 38/360 = 0.105$  $lab \cdot tch$  and  $lab \cdot nch$ 

D65: hue O

LCH\*Ma: 48 83 38

rgb\*Ma: 1.0 0.0 0.0

triangle lightness



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

%Regularity

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

1,00

0,75

 $n^* = 0,00$  $n^* = 0,25$  $n^* = 0,50$ blackness  $n^*$ chromaticness  $c^*$ 

Output: Colorimetric Reflective System MRS18

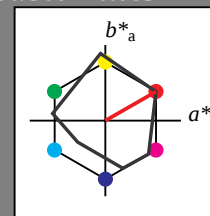
for hue  $h^* = lab \cdot h = 30/360 = 0.083$  $lab \cdot tch$  and  $lab \cdot nch$ 

D65: hue R

LCH\*Ma: 50 77 30

rgb\*Ma: 1.0 0.0 0.0

triangle lightness



MRS18; adapted (a) CIELAB data

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| 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          |

%Regularity

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$  $n^* = 0,00$  $n^* = 0,25$ blackness  $n^*$ chromaticness  $c^*$ 

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

BAM-test chart UE40; Colorimetric systems ORS18 &amp; ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input:  $cmy0^* \text{ setcmykcolor}$ 

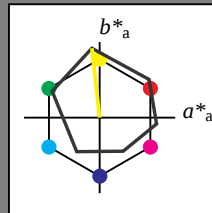
output: Startup (S) data dependend

## Input: Colorimetric Reflective System ORS18

for hue  $h^* = lab \cdot h = 96/360 = 0.268$  $lab \cdot tch$  and  $lab \cdot nch$ D65: hue Y  
LCH\*Ma: 90 92 96  
rgb\*Ma: 1.0 1.0 0.0

triangle lightness

1,00

 $u^*_{rel} = 93$ 

## 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          |
| 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   | 43.87        | 164          |
| BCIE | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

%Regularity

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

1,00

|                                  |  |
|----------------------------------|--|
| 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 -0.97 4.75         |  |
| LAB*Lab 95.41 0.0 0.0            |  |
| LAB*TCha 99.99 0.01 0.0          |  |
| relative CIELAB lab*             |  |
| lab*lab 1.0 0.0 0.0              |  |
| lab*tch 1.0 0.0 0.0              |  |
| lab*nch 0.0 0.0 0.0              |  |
| relative Natural Colour (NC)     |  |
| lab*trj 1.0 0.0 0.0              |  |
| lab*trc 1.0 0.0 0.0              |  |
| lab*ncc 0.0 0.0 0.0              |  |

|                                  |  |
|----------------------------------|--|
| relative Inform. Technology (IT) |  |
| olvi3* 0.75 0.75 0.75 (1.0)      |  |
| cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44          |  |
| LAB*Lab 76.06 0.0 0.0            |  |
| LAB*TCha 75.0 0.01 0.0           |  |
| relative CIELAB lab*             |  |
| lab*lab 0.75 0.0 0.0             |  |
| lab*tch 0.75 0.0 0.0             |  |
| lab*nch 0.25 0.0 0.0             |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.75 0.0 0.0             |  |
| lab*trc 0.25 0.0 0.0             |  |
| lab*ncc 0.25 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 (1.0)         |  |
| cmyn4* 0.0 0.0 0.0 (0.0)         |  |
| standard and adapted CIELAB      |  |
| LAB*LAB 56.71 0.23 2.14          |  |
| LAB*Lab 56.71 0.0 0.0            |  |
| LAB*TCha 50.0 0.01 0.0           |  |
| relative CIELAB lab*             |  |
| lab*lab 0.5 0.0 0.0              |  |
| lab*tch 0.5 0.0 0.0              |  |
| lab*nch 0.5 0.0 0.0              |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.5 0.0 0.0              |  |
| lab*trc 0.5 0.0 0.0              |  |
| lab*ncc 0.5 0.0 0.0              |  |

|                                  |  |
|----------------------------------|--|
| relative Inform. Technology (IT) |  |
| olvi3* 0.25 0.25 0.25 (1.0)      |  |
| cmyn3* 0.75 0.75 0.75 (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 37.36 0.13 0.83          |  |
| LAB*Lab 37.36 0.0 0.0            |  |
| LAB*TCha 25.0 0.01 0.0           |  |
| relative CIELAB lab*             |  |
| lab*lab 0.25 0.0 0.0             |  |
| lab*tch 0.25 0.0 0.0             |  |
| lab*nch 0.75 0.0 0.0             |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.25 0.0 0.0             |  |
| lab*trc 0.75 0.0 0.0             |  |
| lab*ncc 0.75 0.0 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 (1.0)         |  |
| cmyn4* 0.0 0.0 0.0 (1.0)         |  |
| standard and adapted CIELAB      |  |
| LAB*LAB 18.02 0.5 -0.46          |  |
| LAB*Lab 18.02 0.0 0.0            |  |
| LAB*TCha 0.01 0.01 0.0           |  |
| relative CIELAB lab*             |  |
| lab*lab 0.0 0.0 0.0              |  |
| lab*tch 0.0 0.0 0.0              |  |
| lab*nch 1.0 0.0 0.0              |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.0 0.0 0.0              |  |
| lab*trc 0.0 0.0 0.0              |  |
| lab*ncc 1.0 0.0 0.0              |  |

 $n^* = 1,0$ 

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

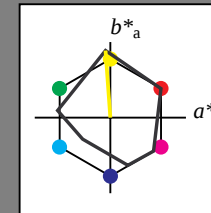
input:  $cm y 0^* set c m y k c o l o r$   
output: Startup (S) data dependend

## Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab \cdot h = 94/360 = 0.261$  $lab \cdot tch$  and  $lab \cdot nch$ D65: hue J  
LCH\*Ma: 91 89 94  
rgb\*Ma: 1.0 1.0 0.0

triangle lightness

1,00

 $u^*_{rel} = 91$ 

## MRS18; adapted (a) CIELAB data

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| 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          |

%Regularity

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

1,00

|                                  |  |
|----------------------------------|--|
| 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 94.22 -2.54 26.86        |  |
| LAB*Lab 94.22 -1.58 22.18        |  |
| LAB*TCha 87.5 22.24 94.1         |  |
| relative CIELAB lab*             |  |
| lab*lab 1.0 0.0 0.0              |  |
| lab*tch 0.875 0.25 0.261         |  |
| lab*nch 0.0 0.25 0.261           |  |
| relative Natural Colour (NC)     |  |
| lab*trj 1.0 0.0 0.0              |  |
| lab*trc 0.875 0.25 0.258         |  |
| lab*ncc 0.0 0.25 0.038           |  |

|                                  |  |
|----------------------------------|--|
| relative Inform. Technology (IT) |  |
| olvi3* 0.75 0.75 0.75 (1.0)      |  |
| cmyn3* 0.25 0.25 0.25 (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 74.88 -2.17 25.56        |  |
| LAB*Lab 74.88 -1.58 22.19        |  |
| LAB*TCha 62.5 22.24 94.1         |  |
| relative CIELAB lab*             |  |
| lab*lab 0.75 0.0 0.0             |  |
| lab*tch 0.75 0.25 0.261          |  |
| lab*nch 0.25 0.25 0.261          |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.75 0.0 0.0             |  |
| lab*trc 0.75 0.25 0.258          |  |
| lab*ncc 0.25 0.25 0.038          |  |

|                                  |  |
|----------------------------------|--|
| 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 (1.0)         |  |
| cmyn4* 0.0 0.0 0.0 (0.0)         |  |
| standard and adapted CIELAB      |  |
| LAB*LAB 55.53 -1.8 24.26         |  |
| LAB*Lab 55.53 -1.58 22.19        |  |
| LAB*TCha 37.5 22.24 94.1         |  |
| relative CIELAB lab*             |  |
| lab*lab 0.5 0.0 0.0              |  |
| lab*tch 0.5 0.25 0.261           |  |
| lab*nch 0.5 0.25 0.261           |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.5 0.0 0.0              |  |
| lab*trc 0.5 0.25 0.258           |  |
| lab*ncc 0.5 0.25 0.038           |  |

|                                  |  |
|----------------------------------|--|
| relative Inform. Technology (IT) |  |
| olvi3* 0.25 0.25 0.25 (1.0)      |  |
| cmyn3* 0.75 0.75 0.75 (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 34.75 -0.37 46.36        |  |
| LAB*Lab 34.75 -0.37 46.36        |  |
| LAB*TCha 25.01 44.48 94.1        |  |
| relative CIELAB lab*             |  |
| lab*lab 0.25 0.0 0.0             |  |
| lab*tch 0.25 0.5 0.261           |  |
| lab*nch 0.5 0.5 0.261            |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.25 0.0 0.0             |  |
| lab*trc 0.25 0.5 0.258           |  |
| lab*ncc 0.5 0.5 0.038            |  |

|                                  |  |
|----------------------------------|--|
| 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 (1.0)         |  |
| cmyn4* 0.0 0.0 0.0 (1.0)         |  |
| standard and adapted CIELAB      |  |
| LAB*LAB 18.02 0.5 -0.46          |  |
| LAB*Lab 18.02 0.0 0.0            |  |
| LAB*TCha 0.01 0.01 0.0           |  |
| relative CIELAB lab*             |  |
| lab*lab 0.0 0.0 0.0              |  |
| lab*tch 0.0 0.0 0.0              |  |
| lab*nch 1.0 0.0 0.0              |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.0 0.0 0.0              |  |
| lab*trc 0.0 0.0 0.0              |  |
| lab*ncc 1.0 0.0 0.0              |  |

 $n^* = 1,0$ 

|                                  |  |
|----------------------------------|--|
| 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 93.05 -4.11 48.97        |  |
| LAB*Lab 93.05 -3.17 44.37        |  |
| LAB*TCha 75.0 44.48 94.1         |  |
| relative CIELAB lab*             |  |
| lab*lab 0.969 -0.035 0.499       |  |
| lab*tch 0.75 0.5 0.261           |  |
| lab*nch 0.0 0.5 0.261            |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.969 -0.023 0.499       |  |
| lab*trc 0.75 0.5 0.258           |  |
| lab*ncc 0.0 0.5 0.038            |  |

|                                  |  |
|----------------------------------|--|
| relative Inform. Technology (IT) |  |
| olvi3* 0.75 0.75 0.75 (1.0)      |  |
| cmyn3* 0.25 0.25 0.25 (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 73.7 -3.74 47.67         |  |
| LAB*Lab 73.7 -3.17 44.38         |  |
| LAB*TCha 50.0 44.49 94.1         |  |
| relative CIELAB lab*             |  |
| lab*lab 0.72 -0.035 0.499        |  |
| lab*tch 0.5 0.5 0.261            |  |
| lab*nch 0.5 0.5 0.261            |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.72 -0.023 0.499        |  |
| lab*trc 0.75 0.5 0.258           |  |
| lab*ncc 0.5 0.5 0.038            |  |

|                                  |  |
|----------------------------------|--|
| 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 (1.0)         |  |
| cmyn4* 0.0 0.0 0.0 (0.0)         |  |
| standard and adapted CIELAB      |  |
| LAB*LAB 54.75 -0.37 46.36        |  |
| LAB*Lab 54.75 -0.37 46.36        |  |
| LAB*TCha 25.01 44.48 94.1        |  |
| relative CIELAB lab*             |  |
| lab*lab 0.49 -0.035 0.499        |  |
| lab*tch 0.25 0.5 0.261           |  |
| lab*nch 0.5 0.5 0.261            |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.49 -0.023 0.499        |  |
| lab*trc 0.25 0.5 0.258           |  |
| lab*ncc 0.5 0.5 0.038            |  |

|                                  |  |
|----------------------------------|--|
| relative Inform. Technology (IT) |  |
| olvi3* 0.25 0.25 0.25 (1.0)      |  |
| cmyn3* 0.75 0.75 0.75 (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 34.75 -0.37 46.36        |  |
| LAB*Lab 34.75 -0.37 46.36        |  |
| LAB*TCha 25.01 44.48 94.1        |  |
| relative CIELAB lab*             |  |
| lab*lab 0.25 0.0 0.0             |  |
| lab*tch 0.25 0.5 0.261           |  |
| lab*nch 0.5 0.5 0.261            |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.25 0.0 0.0             |  |
| lab*trc 0.25 0.5 0.258           |  |
| lab*ncc 0.5 0.5 0.038            |  |

|                                  |  |
|----------------------------------|--|
| 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 (1.0)         |  |
| cmyn4* 0.0 0.0 0.0 (1.0)         |  |
| standard and adapted CIELAB      |  |
| LAB*LAB 18.02 0.5 -0.46          |  |
| LAB*Lab 18.02 0.0 0.0            |  |
| LAB*TCha 0.01 0.01 0.0           |  |
| relative CIELAB lab*             |  |
| lab*lab 0.0 0.0 0.0              |  |
| lab*tch 0.0 0.0 0.0              |  |
| lab*nch 1.0 0.0 0.0              |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.0 0.0 0.0              |  |
| lab*trc 0.0 0.0 0.0              |  |
| lab*ncc 1.0 0.0 0.0              |  |

 $n^* = 1,0$ 

|                                  |  |
|----------------------------------|--|
| 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 91.87 -5.68 71.07        |  |
| LAB*Lab 91.87 -4.77 66.55        |  |
| LAB*TCha 62.5 66.73 94.1         |  |
| relative CIELAB lab*             |  |
| lab*lab 0.954 -0.036 0.749       |  |
| lab*tch 0.625 0.75 0.258         |  |
| lab*ncc 0.0 0.75 0.038           |  |

|                                  |  |
|----------------------------------|--|
| relative Inform. Technology (IT) |  |
| olvi3* 0.75 0.75 0.75 (1.0)      |  |
| cmyn3* 0.25 0.25 0.25 (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 72.53 -5.31 69.77        |  |
| LAB*Lab 72.53 -4.77 66.55        |  |
| LAB*TCha 37.51 66.73 94.1        |  |
| relative CIELAB lab*             |  |
| lab*lab 0.704 -0.053 0.748       |  |
| lab*tch 0.375 0.75 0.261         |  |
| lab*nch 0.25 0.75 0.261          |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.704 -0.036 0.749       |  |
| lab*trc 0.375 0.75 0.258         |  |
| lab*ncc 0.25 0.75 0.038          |  |

|                                  |  |
|----------------------------------|--|
| 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 (1.0)         |  |
| cmyn4* 0.0 0.0 0.0 (0.0)         |  |
| standard and adapted CIELAB      |  |
| LAB*LAB 54.75 -0.37 46.36        |  |
| LAB*Lab 54.75 -0.37 46.36        |  |
| LAB*TCha 25.01 44.48 94.1        |  |
| relative CIELAB lab*             |  |
| lab*lab 0.49 -0.035 0.499        |  |
| lab*tch 0.25 0.5 0.261           |  |
| lab*nch 0.5 0.5 0.261            |  |
| relative Natural Colour (NC)     |  |
| lab*trj 0.49 -0.023 0.499        |  |
| lab*trc 0.25 0.5 0.258           |  |
| lab*ncc 0.5 0.5 0.038            |  |

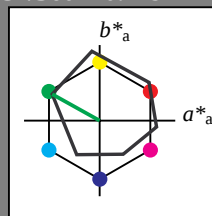
### Input: Colorimetric Reflective System ORS18

for hue  $h^* = lab \cdot h = 151/360 = 0.419$

$lab \cdot tch$  and  $lab \cdot nch$

D65: hue L  
LCH\*Ma: 51 72 151  
rgb\*Ma: 0.0 1.0 0.0

triangle lightness



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

%Regularity

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

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

1,00

0,75

blackness  $n^*$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness  $c^*$

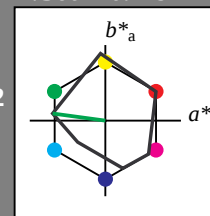
### Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab \cdot h = 172/360 = 0.479$

$lab \cdot tch$  and  $lab \cdot nch$

D65: hue G  
LCH\*Ma: 52 70 172  
rgb\*Ma: 0.0 1.0 0.0

triangle lightness



| MRS18; adapted (a) CIELAB data |               |         |         |              |              |
|--------------------------------|---------------|---------|---------|--------------|--------------|
|                                | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa                            | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa                            | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa                         | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa                            | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa                         | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| 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          |

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness  $c^*$

UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 172/360 = 0.479 (right)

BAM-test chart UE40; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input:  $cmy0^* \text{ setcmykcolor}$

output: *Startup (S) data dependent*

### Input: Colorimetric Reflective System ORS18

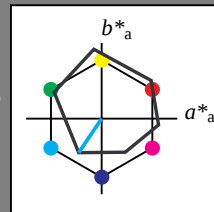
for hue  $h^* = lab \cdot h = 236/360 = 0.656$

$lab \cdot tch$  and  $lab \cdot nch$

D65: hue C  
LCH\*Ma: 59 54 236  
rgb\*Ma: 0.0 1.0 1.0

triangle lightness

1,00



% Gamut

$u^*_{rel} = 93$

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

% Regularity

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

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

1,00

| relative Inform. Technology (IT) |       |       |      |     |       |
|----------------------------------|-------|-------|------|-----|-------|
| olvi3*                           | 1.0   | 1.0   | 1.0  | 1.0 | (1.0) |
| cmyn3*                           | 0.0   | 0.0   | 0.0  | 0.0 | (0.0) |
| olvi4*                           | 1.0   | 1.0   | 1.0  | 1.0 | (1.0) |
| cmyn4*                           | 0.0   | 0.0   | 0.0  | 0.0 | (0.0) |
| standard and adapted CIELAB      |       |       |      |     |       |
| LAB*LAB                          | 95.41 | -0.97 | 4.75 |     |       |
| LAB*LABa                         | 95.41 | 0.0   | 0.0  |     |       |
| LAB*LABb                         | 95.41 | 0.0   | 0.0  |     |       |
| LAB*LABc                         | 95.41 | 0.0   | 0.0  |     |       |
| relative CIELAB lab*             |       |       |      |     |       |
| lab*lab                          | 1.0   | 0.0   | 0.0  |     |       |
| lab*tch                          | 1.0   | 0.0   | 0.0  |     |       |
| lab*nch                          | 0.0   | 0.0   | 0.0  |     |       |
| lab*trj                          | 1.0   | 0.0   | 0.0  |     |       |
| lab*tce                          | 1.0   | 0.0   | 0.0  |     |       |
| lab*nce                          | 0.0   | 0.0   | 0.0  |     |       |

| relative Inform. Technology (IT) |       |      |      |      |       |
|----------------------------------|-------|------|------|------|-------|
| olvi3*                           | 0.75  | 0.75 | 0.75 | 0.75 | (1.0) |
| cmyn3*                           | 0.25  | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4*                           | 1.0   | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4*                           | 0.0   | 0.0  | 0.0  | 0.0  | (0.0) |
| standard and adapted CIELAB      |       |      |      |      |       |
| LAB*LAB                          | 76.06 | -0.6 | 3.44 |      |       |
| LAB*LABa                         | 76.06 | 0.0  | 0.0  |      |       |
| LAB*LABb                         | 76.06 | 0.0  | 0.0  |      |       |
| LAB*LABc                         | 76.06 | 0.0  | 0.0  |      |       |
| relative CIELAB lab*             |       |      |      |      |       |
| lab*lab                          | 0.75  | 0.0  | 0.0  |      |       |
| lab*tch                          | 0.75  | 0.0  | 0.0  |      |       |
| lab*nch                          | 0.25  | 0.0  | 0.0  |      |       |
| lab*trj                          | 0.75  | 0.0  | 0.0  |      |       |
| lab*tce                          | 0.75  | 0.0  | 0.0  |      |       |
| lab*nce                          | 0.25  | 0.0  | 0.0  |      |       |

| relative Inform. Technology (IT) |       |       |      |     |       |
|----------------------------------|-------|-------|------|-----|-------|
| olvi3*                           | 0.5   | 0.5   | 0.5  | 0.5 | (1.0) |
| cmyn3*                           | 0.5   | 0.5   | 0.5  | 0.5 | (0.0) |
| olvi4*                           | 1.0   | 1.0   | 1.0  | 1.0 | (1.0) |
| cmyn4*                           | 0.0   | 0.0   | 0.0  | 0.0 | (0.0) |
| standard and adapted CIELAB      |       |       |      |     |       |
| LAB*LAB                          | 56.71 | -0.23 | 2.14 |     |       |
| LAB*LABa                         | 56.71 | 0.0   | 0.0  |     |       |
| LAB*LABb                         | 56.71 | 0.0   | 0.0  |     |       |
| LAB*LABc                         | 56.71 | 0.0   | 0.0  |     |       |
| relative CIELAB lab*             |       |       |      |     |       |
| lab*lab                          | 0.5   | 0.0   | 0.0  |     |       |
| lab*tch                          | 0.5   | 0.0   | 0.0  |     |       |
| lab*nch                          | 0.5   | 0.0   | 0.0  |     |       |
| lab*trj                          | 0.5   | 0.0   | 0.0  |     |       |
| lab*tce                          | 0.5   | 0.0   | 0.0  |     |       |
| lab*nce                          | 0.5   | 0.0   | 0.0  |     |       |

| relative Inform. Technology (IT) |       |       |      |      |       |
|----------------------------------|-------|-------|------|------|-------|
| olvi3*                           | 0.33  | 0.33  | 0.33 | 0.33 | (1.0) |
| cmyn3*                           | 0.33  | 0.33  | 0.33 | 0.33 | (0.0) |
| olvi4*                           | 1.0   | 1.0   | 1.0  | 1.0  | (1.0) |
| cmyn4*                           | 0.0   | 0.0   | 0.0  | 0.0  | (0.0) |
| standard and adapted CIELAB      |       |       |      |      |       |
| LAB*LAB                          | 44.11 | -0.13 | 1.81 |      |       |
| LAB*LABa                         | 44.11 | 0.0   | 0.0  |      |       |
| LAB*LABb                         | 44.11 | 0.0   | 0.0  |      |       |
| LAB*LABc                         | 44.11 | 0.0   | 0.0  |      |       |
| relative CIELAB lab*             |       |       |      |      |       |
| lab*lab                          | 0.33  | 0.0   | 0.0  |      |       |
| lab*tch                          | 0.33  | 0.0   | 0.0  |      |       |
| lab*nch                          | 0.33  | 0.0   | 0.0  |      |       |
| lab*trj                          | 0.33  | 0.0   | 0.0  |      |       |
| lab*tce                          | 0.33  | 0.0   | 0.0  |      |       |
| lab*nce                          | 0.33  | 0.0   | 0.0  |      |       |

| relative Inform. Technology (IT) |       |      |      |      |       |
|----------------------------------|-------|------|------|------|-------|
| olvi3*                           | 0.25  | 0.25 | 0.25 | 0.25 | (1.0) |
| cmyn3*                           | 0.25  | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4*                           | 1.0   | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4*                           | 0.0   | 0.0  | 0.0  | 0.0  | (0.0) |
| standard and adapted CIELAB      |       |      |      |      |       |
| LAB*LAB                          | 37.36 | 0.13 | 0.83 |      |       |
| LAB*LABa                         | 37.36 | 0.0  | 0.0  |      |       |
| LAB*LABb                         | 37.36 | 0.0  | 0.0  |      |       |
| LAB*LABc                         | 37.36 | 0.0  | 0.0  |      |       |
| relative CIELAB lab*             |       |      |      |      |       |
| lab*lab                          | 0.25  | 0.0  | 0.0  |      |       |
| lab*tch                          | 0.25  | 0.0  | 0.0  |      |       |
| lab*nch                          | 0.25  | 0.0  | 0.0  |      |       |
| lab*trj                          | 0.25  | 0.0  | 0.0  |      |       |
| lab*tce                          | 0.25  | 0.0  | 0.0  |      |       |
| lab*nce                          | 0.25  | 0.0  | 0.0  |      |       |

| relative Inform. Technology (IT) |       |       |      |      |       |
|----------------------------------|-------|-------|------|------|-------|
| olvi3*                           | 0.17  | 0.17  | 0.17 | 0.17 | (1.0) |
| cmyn3*                           | 0.17  | 0.17  | 0.17 | 0.17 | (0.0) |
| olvi4*                           | 1.0   | 1.0   | 1.0  | 1.0  | (1.0) |
| cmyn4*                           | 0.0   | 0.0   | 0.0  | 0.0  | (0.0) |
| standard and adapted CIELAB      |       |       |      |      |       |
| LAB*LAB                          | 31.52 | -0.03 | 1.37 |      |       |
| LAB*LABa                         | 31.52 | 0.0   | 0.0  |      |       |
| LAB*LABb                         | 31.52 | 0.0   | 0.0  |      |       |
| LAB*LABc                         | 31.52 | 0.0   | 0.0  |      |       |
| relative CIELAB lab*             |       |       |      |      |       |
| lab*lab                          | 0.17  | 0.0   | 0.0  |      |       |
| lab*tch                          | 0.17  | 0.0   | 0.0  |      |       |
| lab*nch                          | 0.17  | 0.0   | 0.0  |      |       |
| lab*trj                          | 0.17  | 0.0   | 0.0  |      |       |
| lab*tce                          | 0.17  | 0.0   | 0.0  |      |       |
| lab*nce                          | 0.17  | 0.0   | 0.0  |      |       |

| relative Inform. Technology (IT) |       |       |      |     |       |
|----------------------------------|-------|-------|------|-----|-------|
| olvi3*                           | 0.1   | 0.1   | 0.1  | 0.1 | (1.0) |
| cmyn3*                           | 0.1   | 0.1   | 0.1  | 0.1 | (0.0) |
| olvi4*                           | 1.0   | 1.0   | 1.0  | 1.0 | (1.0) |
| cmyn4*                           | 0.0   | 0.0   | 0.0  | 0.0 | (0.0) |
| standard and adapted CIELAB      |       |       |      |     |       |
| LAB*LAB                          | 24.77 | -0.13 | 1.12 |     |       |
| LAB*LABa                         | 24.77 | 0.0   | 0.0  |     |       |
| LAB*LABb                         | 24.77 | 0.0   | 0.0  |     |       |
| LAB*LABc                         | 24.77 | 0.0   | 0.0  |     |       |
| relative CIELAB lab*             |       |       |      |     |       |
| lab*lab                          | 0.1   | 0.0   | 0.0  |     |       |
| lab*tch                          | 0.1   | 0.0   | 0.0  |     |       |
| lab*nch                          | 0.1   | 0.0   | 0.0  |     |       |
| lab*trj                          | 0.1   | 0.0   | 0.0  |     |       |
| lab*tce                          | 0.1   | 0.0   | 0.0  |     |       |
| lab*nce                          | 0.1   | 0.0   | 0.0  |     |       |

| relative Inform. Technology (IT) |       |      |      |      |       |
|----------------------------------|-------|------|------|------|-------|
| olvi3*                           | 0.08  | 0.08 | 0.08 | 0.08 | (1.0) |
| cmyn3*                           | 0.08  | 0.08 | 0.08 | 0.08 | (0.0) |
| olvi4*                           | 1.0   | 1.0  | 1.0  | 1.0  | (1.0) |
| cmyn4*                           | 0.0   | 0.0  | 0.0  | 0.0  | (0.0) |
| standard and adapted CIELAB      |       |      |      |      |       |
| LAB*LAB                          | 18.02 | 0.0  | 0.0  |      |       |
| LAB*LABa                         | 18.02 | 0.0  | 0.0  |      |       |
| LAB*LABb                         | 18.02 | 0.0  | 0.0  |      |       |
| LAB*LABc                         | 18.02 | 0.0  | 0.0  |      |       |
| relative CIELAB lab*             |       |      |      |      |       |
| lab*lab                          | 0.08  | 0.0  | 0.0  |      |       |
| lab*tch                          | 0.08  | 0.0  | 0.0  |      |       |
| lab*nch                          | 0.08  | 0.0  | 0.0  |      |       |
| lab*trj                          | 0.08  | 0.0  | 0.0  |      |       |
| lab*tce                          | 0.08  | 0.0  | 0.0  |      |       |
| lab*nce                          | 0.08  | 0.0  | 0.0  |      |       |

| relative Inform. Technology (IT) |      |     |     |     |       |
|----------------------------------|------|-----|-----|-----|-------|
| olvi3*                           | 0.0  | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3*                           | 0.0  | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4*                           | 1.0  | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn4*                           | 0.0  | 0.0 | 0.0 | 0.0 | (0.0) |
| standard and adapted CIELAB      |      |     |     |     |       |
| LAB*LAB                          | 12.5 | 0.0 | 0.0 |     |       |
| LAB*LABa                         | 12.5 | 0.0 | 0.0 |     |       |
| LAB*LABb                         | 12.5 | 0.0 | 0.0 |     |       |
| LAB*LABc                         | 12.5 | 0.0 | 0.0 |     |       |
| relative CIELAB lab*             |      |     |     |     |       |
| lab*lab                          | 0.0  | 0.0 | 0.0 |     |       |
| lab*tch                          | 0.0  | 0.0 | 0.0 |     |       |
| lab*nch                          | 0.0  | 0.0 | 0.0 |     |       |
| lab*trj                          | 0.0  | 0.0 | 0.0 |     |       |
| lab*tce                          | 0.0  | 0.0 | 0.0 |     |       |
| lab*nce                          | 0.0  | 0.0 | 0.0 |     |       |

| relative Inform. Technology (IT) |     |     |     |     |       |
|----------------------------------|-----|-----|-----|-----|-------|
| olvi3*                           | 0.0 | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3*                           | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4*                           | 1.0 | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn4*                           | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) |
| standard and adapted CIELAB      |     |     |     |     |       |
| LAB*LAB                          | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABa                         | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABb                         | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABc                         | 0.0 | 0.0 | 0.0 |     |       |
| relative CIELAB lab*             |     |     |     |     |       |
| lab*lab                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*tch                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*nch                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*trj                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*tce                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*nce                          | 0.0 | 0.0 | 0.0 |     |       |

| relative Inform. Technology (IT) |     |     |     |     |       |
|----------------------------------|-----|-----|-----|-----|-------|
| olvi3*                           | 0.0 | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3*                           | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4*                           | 1.0 | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn4*                           | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) |
| standard and adapted CIELAB      |     |     |     |     |       |
| LAB*LAB                          | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABa                         | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABb                         | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABc                         | 0.0 | 0.0 | 0.0 |     |       |
| relative CIELAB lab*             |     |     |     |     |       |
| lab*lab                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*tch                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*nch                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*trj                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*tce                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*nce                          | 0.0 | 0.0 | 0.0 |     |       |

| relative Inform. Technology (IT) |     |     |     |     |       |
|----------------------------------|-----|-----|-----|-----|-------|
| olvi3*                           | 0.0 | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3*                           | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4*                           | 1.0 | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn4*                           | 0.0 | 0.0 | 0.0 | 0.0 | (0.0) |
| standard and adapted CIELAB      |     |     |     |     |       |
| LAB*LAB                          | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABa                         | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABb                         | 0.0 | 0.0 | 0.0 |     |       |
| LAB*LABc                         | 0.0 | 0.0 | 0.0 |     |       |
| relative CIELAB lab*             |     |     |     |     |       |
| lab*lab                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*tch                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*nch                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*trj                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*tce                          | 0.0 | 0.0 | 0.0 |     |       |
| lab*nce                          | 0.0 | 0.0 | 0.0 |     |       |

5 step scales for constant CIELAB hue 218/360 = 0.605 (right)

## Input: Colorimetric Reflective System ORS18

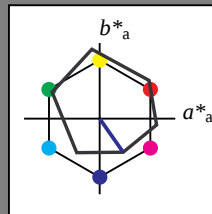
for hue  $h^* = \text{lab} \cdot h = 305/360 = 0.847$  $\text{lab} \cdot \text{tch}$  and  $\text{lab} \cdot \text{nch}$ 

D65: hue V

LCH\*Ma: 26 54 305

rgb\*Ma: 0.0 0.0 1.0

triangle lightness



## 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          |
| 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   | 43.87        | 164          |
| BCIE | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

%Regularity

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

1,00

0,75

 $n^* = 0,00$ 

0,25

 $n^* = 0,25$  $n^* = 0,50$ chromaticness  $c^*$ 

## Output: Colorimetric Reflective System MRS18

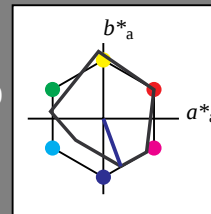
for hue  $h^* = \text{lab} \cdot h = 290/360 = 0.806$  $\text{lab} \cdot \text{tch}$  and  $\text{lab} \cdot \text{nch}$ 

D65: hue B

LCH\*Ma: 37 67 290

rgb\*Ma: 0.0 0.0 1.0

triangle lightness



## MRS18; adapted (a) CIELAB data

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa    | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa    | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| 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          |

%Regularity

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

1,00

0,75

 $n^* = 0,00$ 

0,25

 $n^* = 0,25$  $n^* = 0,50$ chromaticness  $c^*$ 

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 290/360 = 0.806 (right)

BAM-test chart UE40; Colorimetric systems ORS18 &amp; ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input:  $\text{cmy}0^* \text{ setcmykcolor}$ 

output: Startup (S) data dependend

### Input: Colorimetric Reflective System ORS18

```
for hue  $h^* = lab^*h = 354/360 = 0.982$ 
```

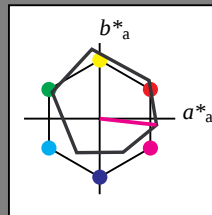
**lab\*tch and lab\*nch**

D65: hue M

LCH\*Ma: 48 76 354

rgb\*Ma: 1.0 0.0 1.0

triangle lightness

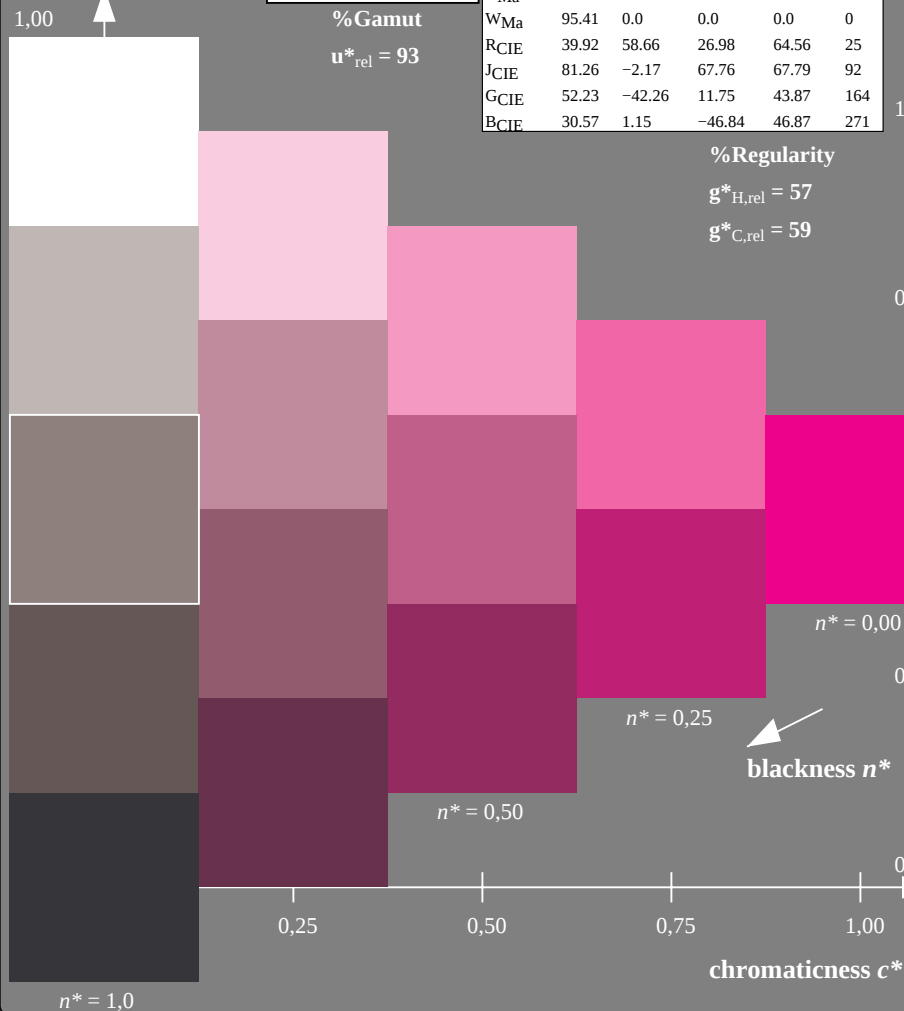


% Gamut

$$U_{vol}^* = 93$$

| ORS18; adapted (a) CIELAB data |         |         |         |              |              |
|--------------------------------|---------|---------|---------|--------------|--------------|
|                                | $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |
| 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   | 43.87        | 164          |
| BCIE                           | 30.57   | 1.15    | -46.84  | 46.87        | 271          |

### %Regularity

 $\sigma^*_{\text{II,rel}} = 57$ 
$$g^*_{C,rel} = 59$$


UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

BAM-test chart UE40; Colorimetric systems ORS18 &amp; ORS18

D65: 5 step colour scales and coordinate data for 10 hues

## Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 322/360 = 0.895$

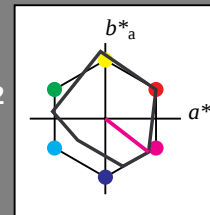
*lab\*tch* and *lab\*nch*

D65: hue B50R

LCH\*Ma: 35 72 322

rgb\*Ma: 1.0 0.0 1.0

triangle lightness

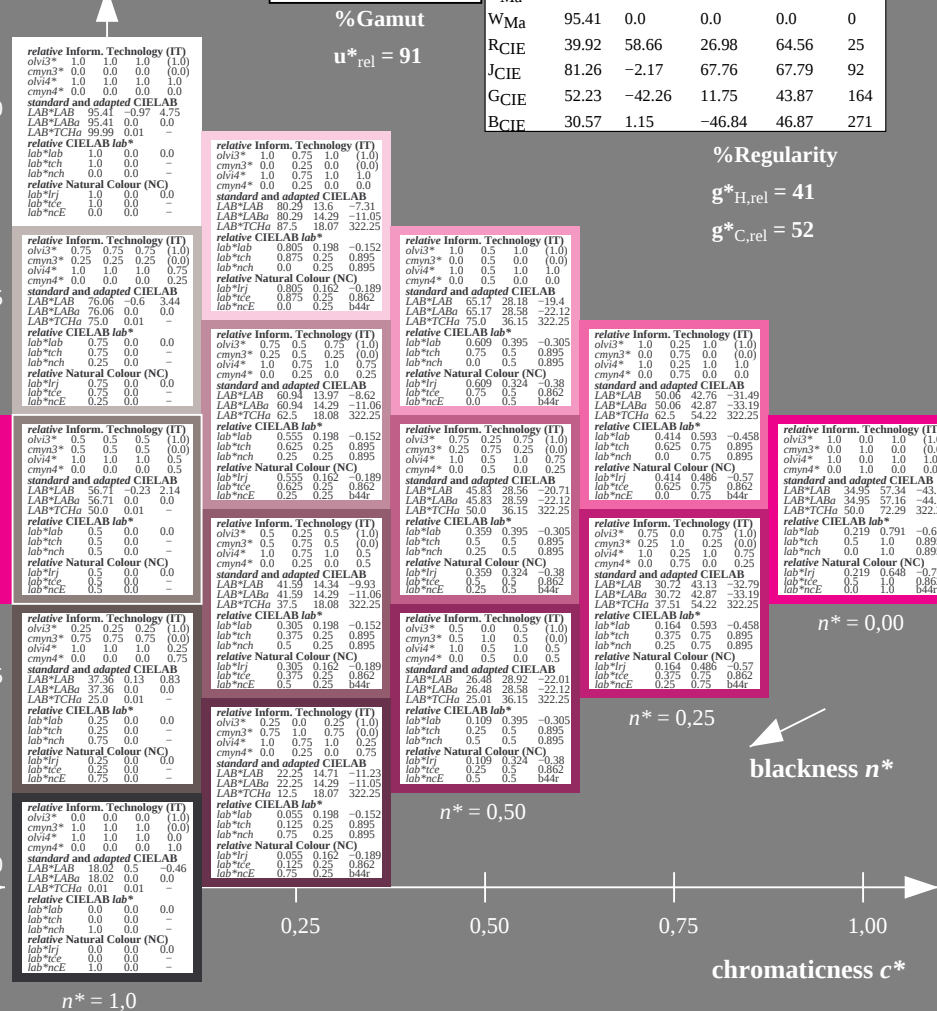


%Gamut

$$u^*_{\text{rel}} = 91$$

| MRS18; adapted (a) CIELAB data |         |         |         |              |            |  |
|--------------------------------|---------|---------|---------|--------------|------------|--|
|                                | $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab}$ |  |
| R <sub>Ma</sub>                | 49.63   | 66.96   | 38.37   | 77.18        | 30         |  |
| J <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        |  |
| G50B <sub>Ma</sub>             | 45.03   | -36.57  | -28.47  | 46.36        | 218        |  |
| B <sub>Ma</sub>                | 36.65   | 23.19   | -63.05  | 67.18        | 290        |  |
| B50R <sub>Ma</sub>             | 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         |  |
| 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        |  |

### %Regularity

 $\sigma^*_{II,vol} = 41$ 
$$g^*_{C,rel} = 52$$


5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

input: *cmy0\** *setcmykcolor*

output: *Startup (S) data dependend*

Input: Colorimetric Reflective System ORS18

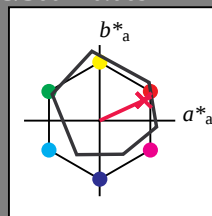
for hue  $h^* = lab \cdot h = 25/360 = 0.069$  $lab \cdot tch$  and  $lab \cdot nch$ 

D65: hue R

LCH\*Ma: 48 75 25

rgb\*Ma: 1.0 0.0 0.32

triangle lightness



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

%Regularity

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

Output: Colorimetric Reflective System MRS18

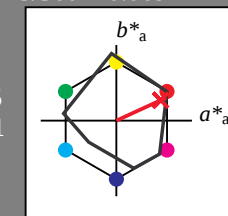
for hue  $h^* = lab \cdot h = 25/360 = 0.069$  $lab \cdot tch$  and  $lab \cdot nch$ 

D65: hue R

LCH\*Ma: 48 73 25

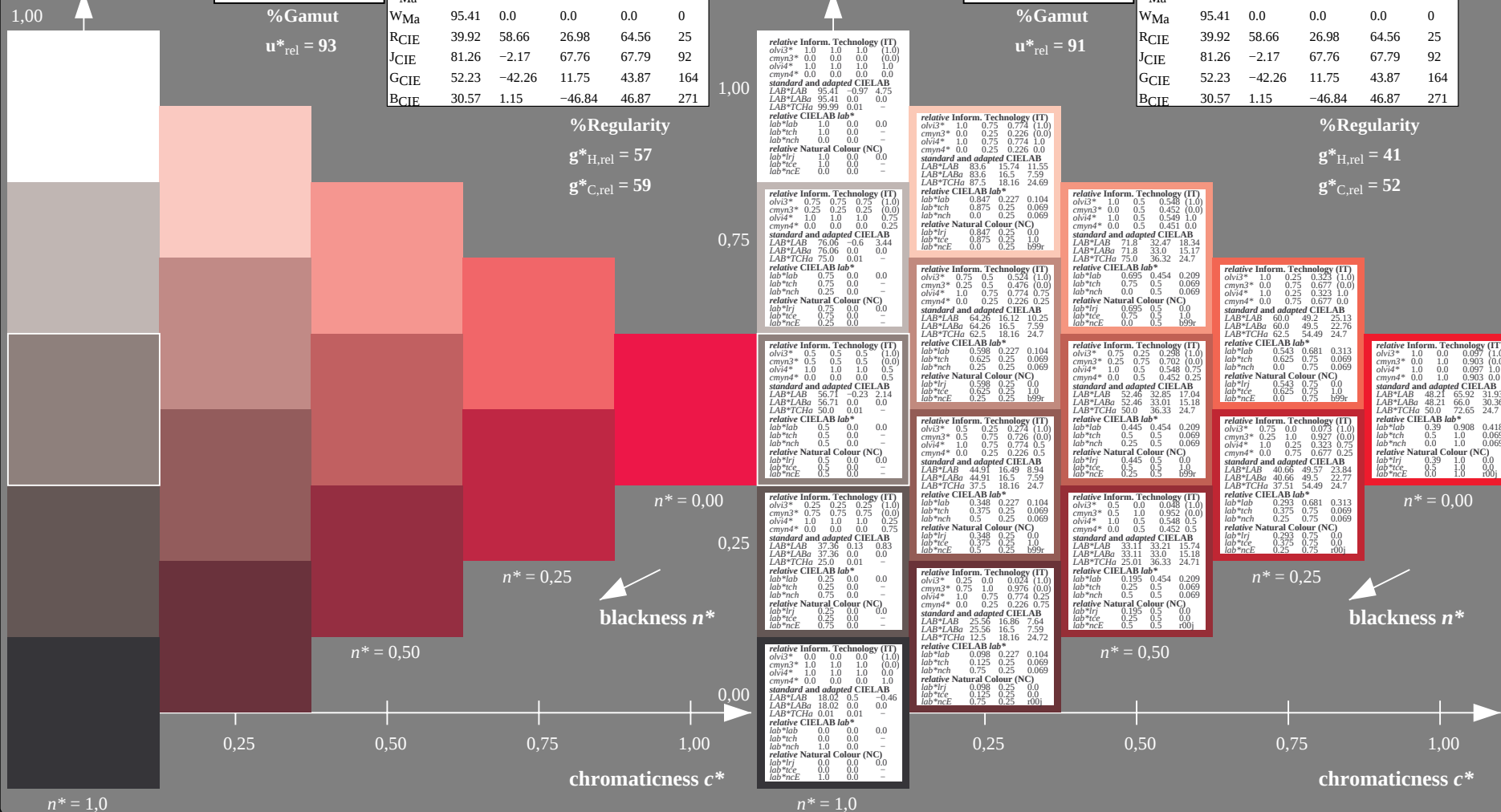
rgb\*Ma: 1.0 0.0 0.1

triangle lightness



| MRS18; adapted (a) CIELAB data |               |         |         |              |              |
|--------------------------------|---------------|---------|---------|--------------|--------------|
|                                | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa                            | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa                            | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa                         | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa                            | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa                         | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| 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          |

%Regularity

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart UE40; Colorimetric systems ORS18 &amp; ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input:  $cmy0^* \text{ setcmykcolor}$ 

output: Startup (S) data dependend

Input: Colorimetric Reflective System ORS18

for hue  $h^* = lab \cdot h = 92/360 = 0.255$  $lab \cdot tch$  and  $lab \cdot nch$ 

D65: hue J

LCH\*Ma: 86 88 92

rgb\*Ma: 1.0 0.9 0.0

triangle lightness

1,00

↑

%

Gamut

u\*<sub>rel</sub> = 93

%

Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

%

Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

%

Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

%

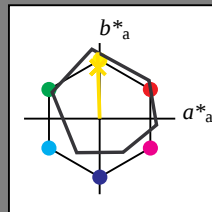
Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

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

%Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

%

Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

%

Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

%

Regularity

g\*<sub>H,rel</sub> = 57g\*<sub>C,rel</sub> = 59

0,75

%

Gamut

u\*<sub>rel</sub> = 93

%

Regularity

Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab \cdot h = 92/360 = 0.255$  $lab \cdot tch$  and  $lab \cdot nch$ 

D65: hue J

LCH\*Ma: 89 86 92

rgb\*Ma: 1.0 0.95 0.0

triangle lightness

1,00

↑

%

Gamut

u\*<sub>rel</sub> = 91

%

Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

%

Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

%

Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

%

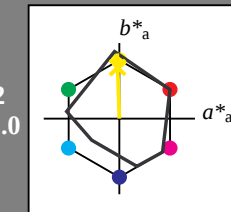
Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

| MRS18; adapted (a) CIELAB data |               |         |         |              |              |
|--------------------------------|---------------|---------|---------|--------------|--------------|
|                                | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa                            | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa                            | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa                         | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| BMa                            | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa                         | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| 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          |

%Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

%

Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

%

Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

%

Regularity

g\*<sub>H,rel</sub> = 41g\*<sub>C,rel</sub> = 52

0,75

%

Gamut

u\*<sub>rel</sub> = 91

%

Regularity

UE400-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)



BAM-test chart UE40; Colorimetric systems ORS18 &amp; ORS18

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

input: *cmY0\* setcmykcolor*output: *Startup (S) data dependend*

**Input: Colorimetric Reflective System ORS18**

for hue  $h^* = lab^*h = 164/360 = 0.457$

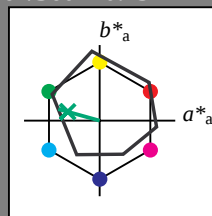
**lab\*tch and lab\*nch**

D65: hue G

LCH\*Ma: 53 57 164

rgb\*Ma: 0.0 1.0 0.25

## triangle lightness

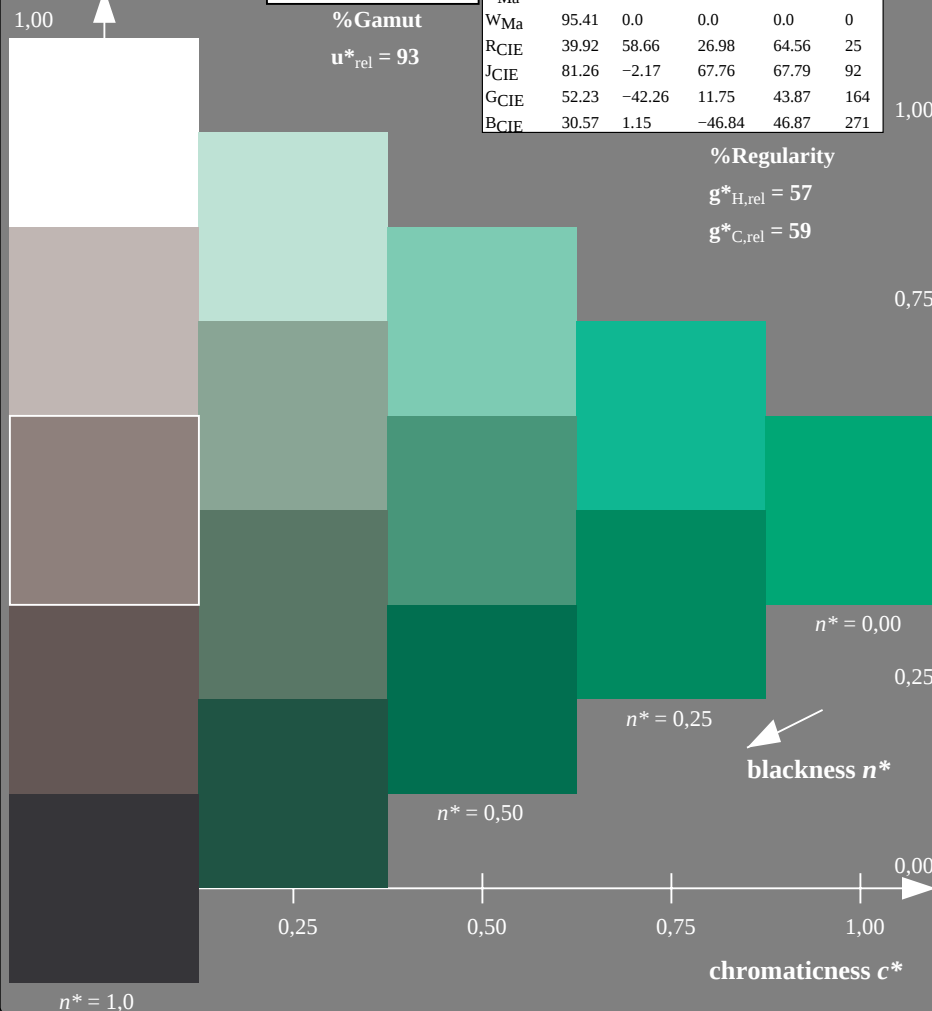


%Gamut

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

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

### %Regularity

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


UE400-7, 5 step scales for constant CIELAB hue  $164/360 = 0.457$  (left)

BAM-test chart UE40; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 164/360 = 0.457$

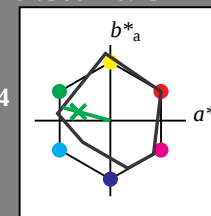
*lab\*tch* and *lab\*nch*

D65: hue G

LCH\*Ma: 56 66 164

rgb\*Ma: 0.1 1.0 0.0

## triangle lightness

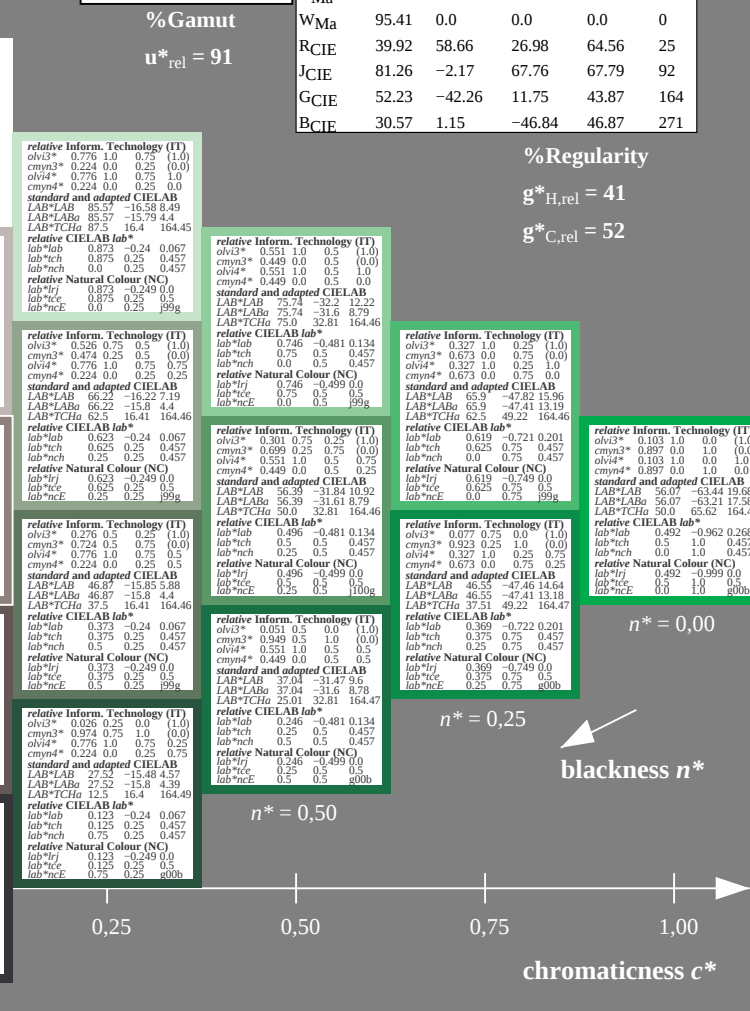


%Gamut

$$u^*_{rel} = 91$$

| MRS18; adapted (a) CIELAB data |         |         |         |              |          |  |
|--------------------------------|---------|---------|---------|--------------|----------|--|
|                                | $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_ab$ |  |
| R <sub>Ma</sub>                | 49.63   | 66.96   | 38.37   | 77.18        | 30       |  |
| J <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      |  |
| G50B <sub>Ma</sub>             | 45.03   | -36.57  | -28.47  | 46.36        | 218      |  |
| B <sub>Ma</sub>                | 36.65   | 23.19   | -63.05  | 67.18        | 290      |  |
| B50R <sub>Ma</sub>             | 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       |  |
| 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      |  |

### %Regularity

$$g^*_{H\text{rel}} = 41$$
$$g^*_{C,rel} = 52$$


5 step scales for constant CIELAB hue  $164/360 = 0.457$  (right)

input: *cmv0\** *setcmvcolor*

output: *Startup (S) data depend*

Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 271/360 = 0.754$

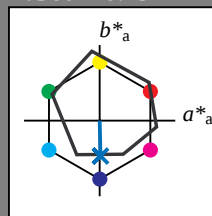
$\text{lab}^*tch$  and  $\text{lab}^*nch$

D65: hue B

LCH\*Ma: 42 45 271

rgb\*Ma: 0.0 0.49 1.0

triangle lightness



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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness  $c^*$

Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 271/360 = 0.754$

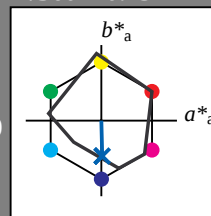
$\text{lab}^*tch$  and  $\text{lab}^*nch$

D65: hue B

LCH\*Ma: 40 50 271

rgb\*Ma: 0.0 0.37 1.0

triangle lightness



| MRS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| JMa                            | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| GMa                            | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50BMa                         | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| BMa                            | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50RMa                         | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| 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          |

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness  $c^*$

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart UE40; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input:  $\text{cmy}0^* \text{ setcmykcolor}$

output: Startup (S) data dependend