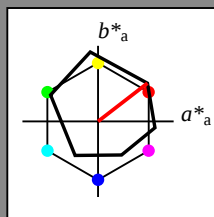


### Input: Colorimetric Reflective System ORS18

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

D65: hue O  
LCH\*Ma: 48 83 38  
rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 93$   
%Regularity  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$

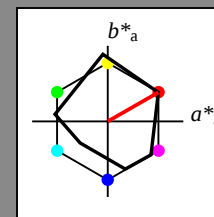
| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 30/360 = 0.083$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

D65: hue R  
LCH\*Ma: 50 77 30  
rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 91$   
%Regularity  
 $g^*_{H,\text{rel}} = 41$   
 $g^*_{C,\text{rel}} = 52$

| 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$   
blackness  $n^*$

chromaticness  $c^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness  $n^*$

chromaticness  $c^*$

TE600-7, 3 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 TE60; Colorimetric systems ORS18 & MRS18

D65: 3 and 5 step colour scales for 10 hues

input:  $\text{olv}^* \text{setrgbcolor}$

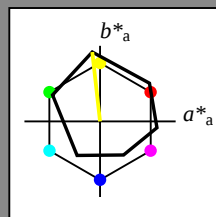
output:  $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$

### Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 96/360 = 0.268$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

D65: hue Y  
LCH\*Ma: 90 92 96  
rgb\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 93$   
%Regularity  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$

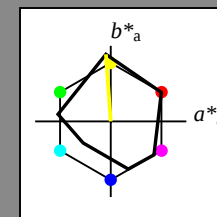
| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 94/360 = 0.261$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

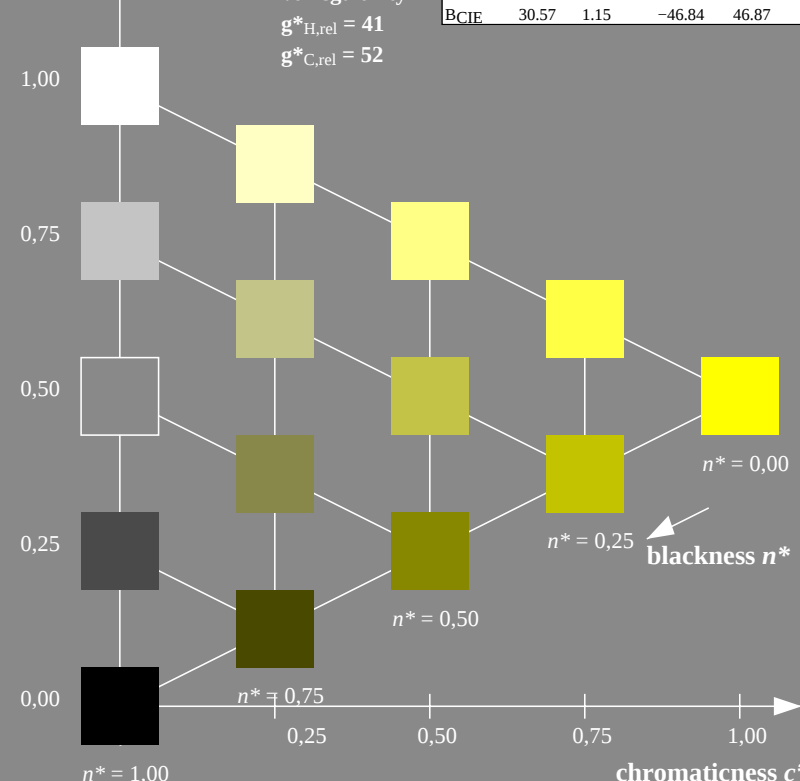
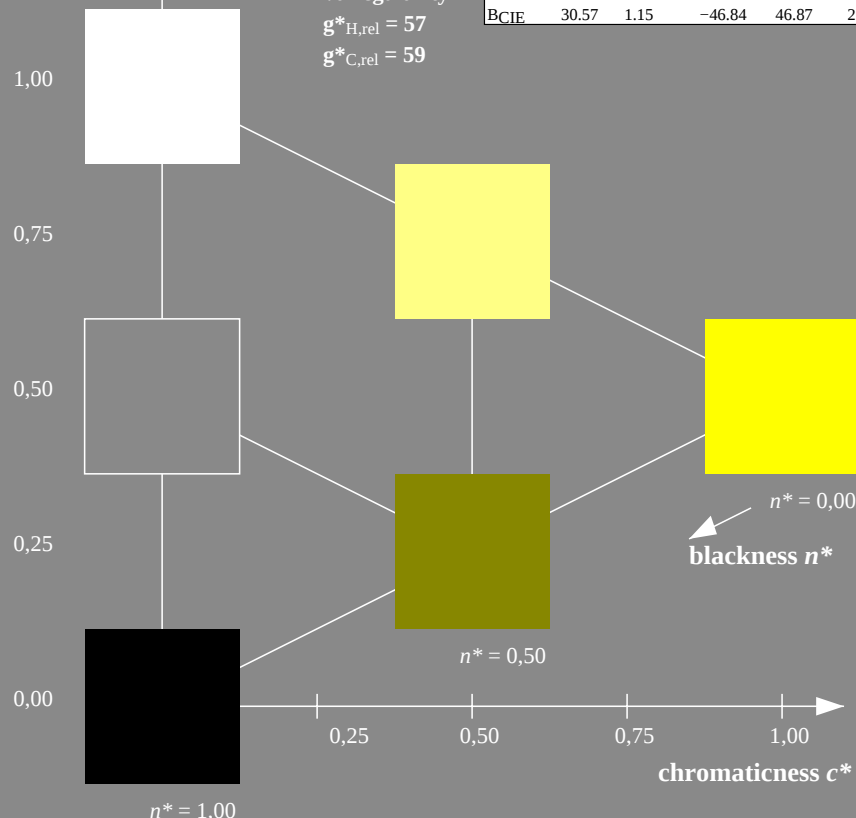
D65: hue J  
LCH\*Ma: 91 89 94  
rgb\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 91$   
%Regularity  
 $g^*_{H,\text{rel}} = 41$   
 $g^*_{C,\text{rel}} = 52$

| 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          |



TE600-7, 3 step scales for constant CIELAB hue 96/360 = 0.268 (left)

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

BAM-test chart TE60; Colorimetric systems ORS18 & MRS18  
D65: 3 and 5 step colour scales for 10 hues

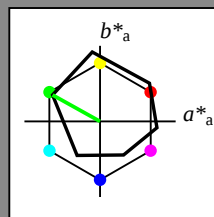
input:  $\text{olv}^* \text{setrgbcolor}$   
output:  $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$

### Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 151/360 = 0.419$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

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

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 93$   
%Regularity  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$

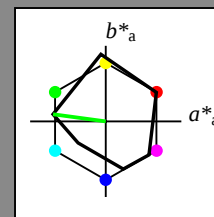
| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 172/360 = 0.479$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

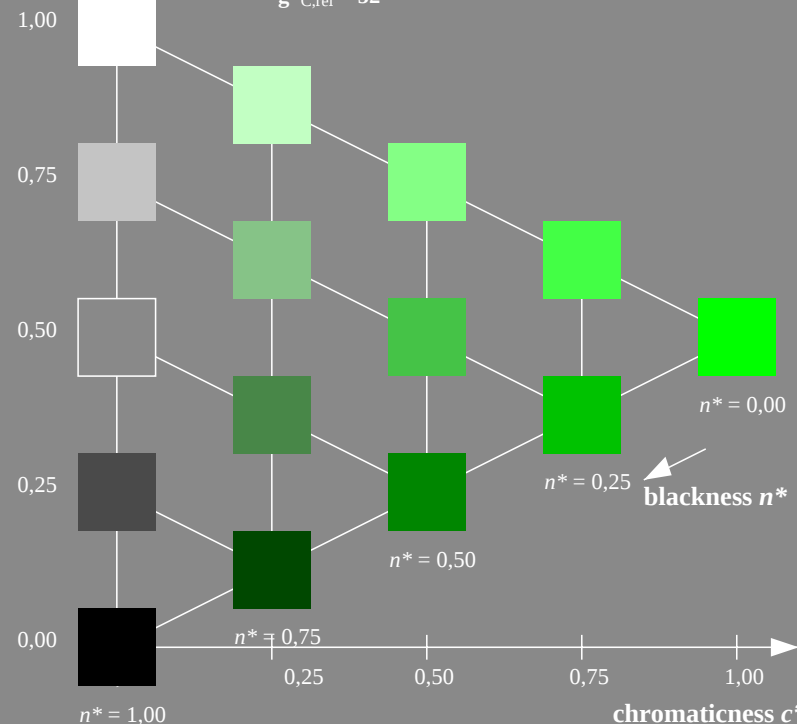
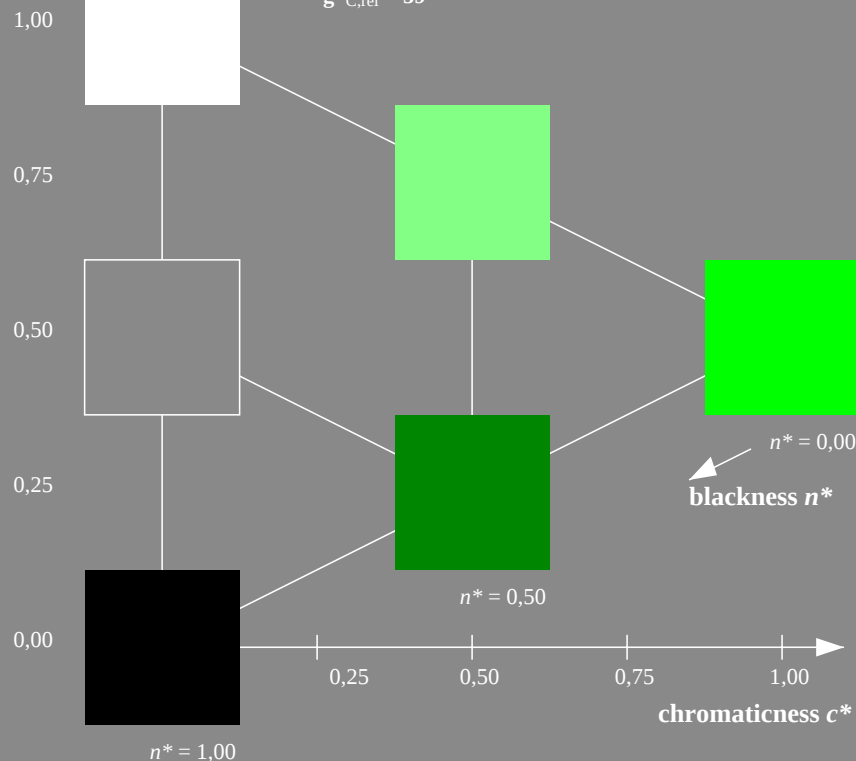
D65: hue G  
LCH\*Ma: 52 70 172  
rgb\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 91$   
%Regularity  
 $g^*_{H,\text{rel}} = 41$   
 $g^*_{C,\text{rel}} = 52$

| 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          |



TE600-7, 3 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 TE60; Colorimetric systems ORS18 & MRS18  
D65: 3 and 5 step colour scales for 10 hues

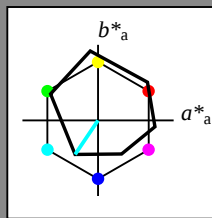
input:  $\text{olv}^* \text{setrgbcolor}$   
output:  $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$

### Input: Colorimetric Reflective System ORS18

for hue  $h^* = lab^*h = 236/360 = 0.656$   
 $lab^*ich$  and  $lab^*nch$

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

triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 93$   
 %Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

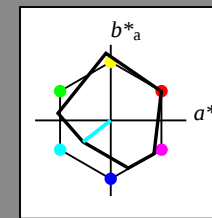
| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 218/360 = 0.605$   
 $lab^*ich$  and  $lab^*nch$

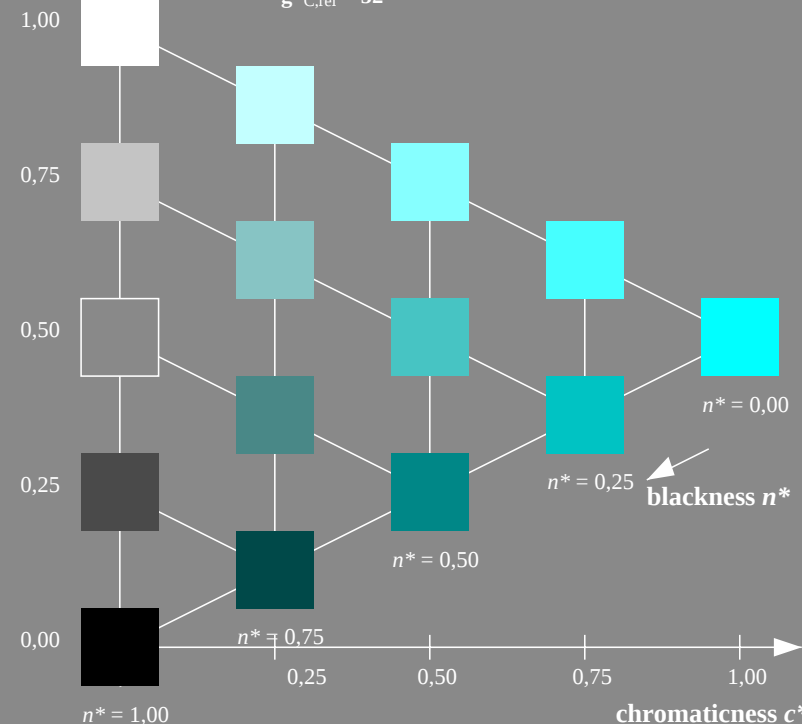
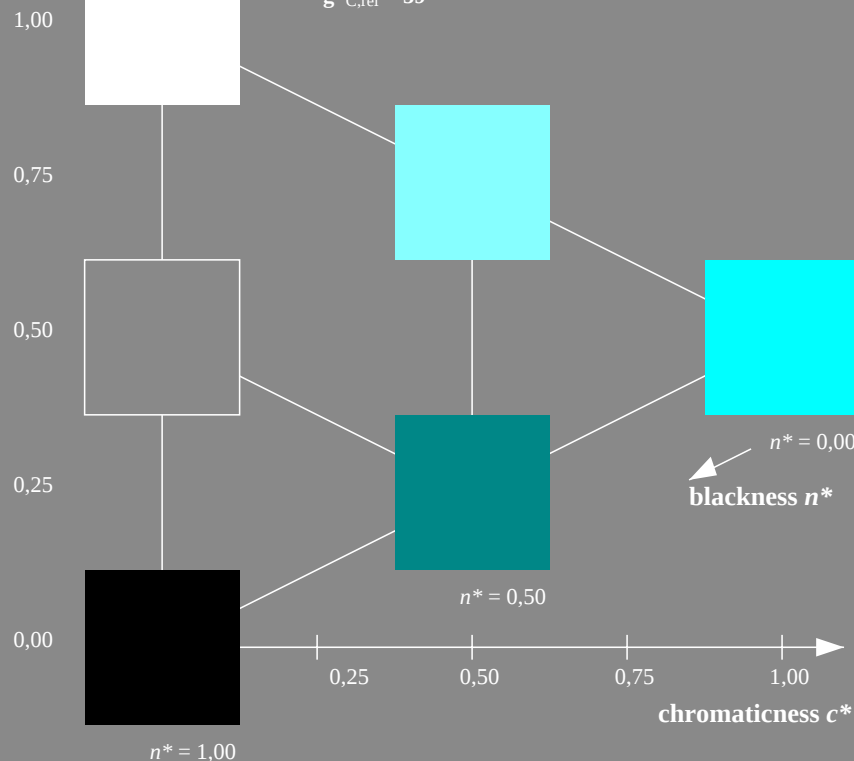
D65: hue G50B  
 LCH\*Ma: 45 46 218  
 rgb\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 91$   
 %Regularity  
 $g^*_{H,rel} = 41$   
 $g^*_{C,rel} = 52$

| MRS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |



TE600-7, 3 step scales for constant CIELAB hue 236/360 = 0.656 (left)

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

BAM-test chart TE60; Colorimetric systems ORS18 & MRS18  
 D65: 3 and 5 step colour scales for 10 hues

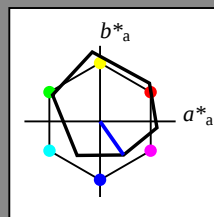
input: `olv* setrgbcolor`  
 output: `olv* setrgbcolor / w* setgray`

# Input: Colorimetric Reflective System ORS18

for hue  $h^* = lab^*h = 305/360 = 0.847$   
 $lab^*ich$  and  $lab^*nch$

D65: hue V  
LCH\*Ma: 26 54 305  
rgb\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 93$   
%Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

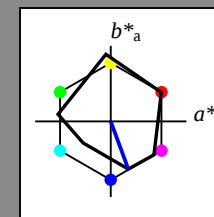
| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 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            |
| 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          |

# Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 290/360 = 0.806$   
 $lab^*ich$  and  $lab^*nch$

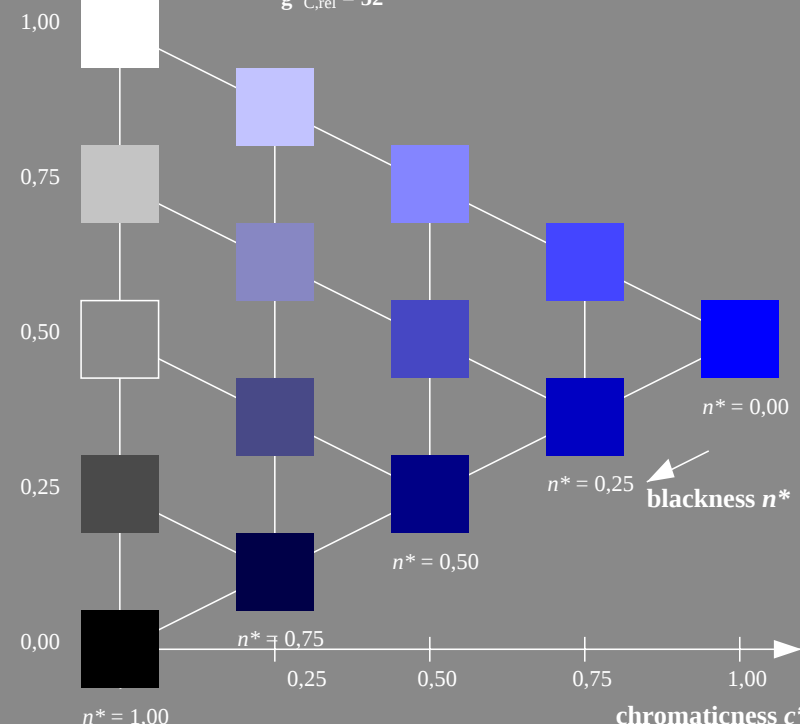
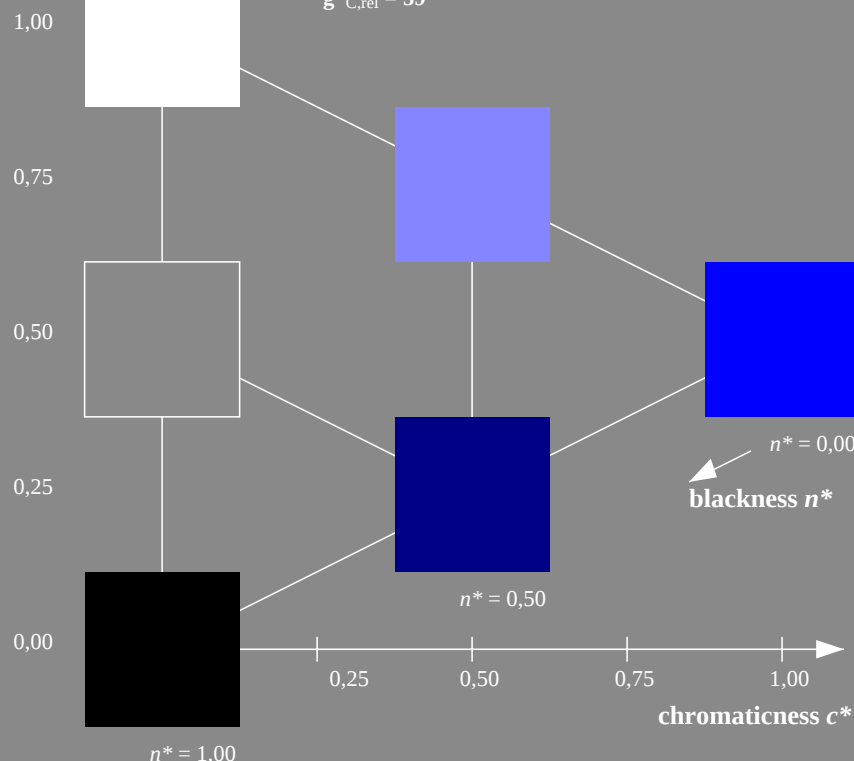
D65: hue B  
LCH\*Ma: 37 67 290  
rgb\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{rel} = 91$   
%Regularity  
 $g^*_{H,rel} = 41$   
 $g^*_{C,rel} = 52$

| MRS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |



TE600-7, 3 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 TE60; Colorimetric systems ORS18 & MRS18  
D65: 3 and 5 step colour scales for 10 hues

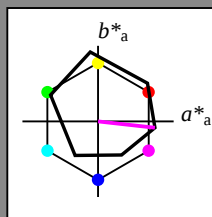
input:  $olv^* setrgbcolor$   
output:  $olv^* setrgbcolor / w^* setgray$

### Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 354/360 = 0.982$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

D65: hue M  
LCH\*Ma: 48 76 354  
rgb\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 93$   
%Regularity  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$

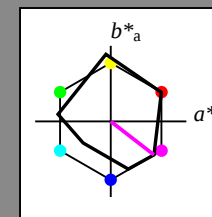
| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 322/360 = 0.895$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

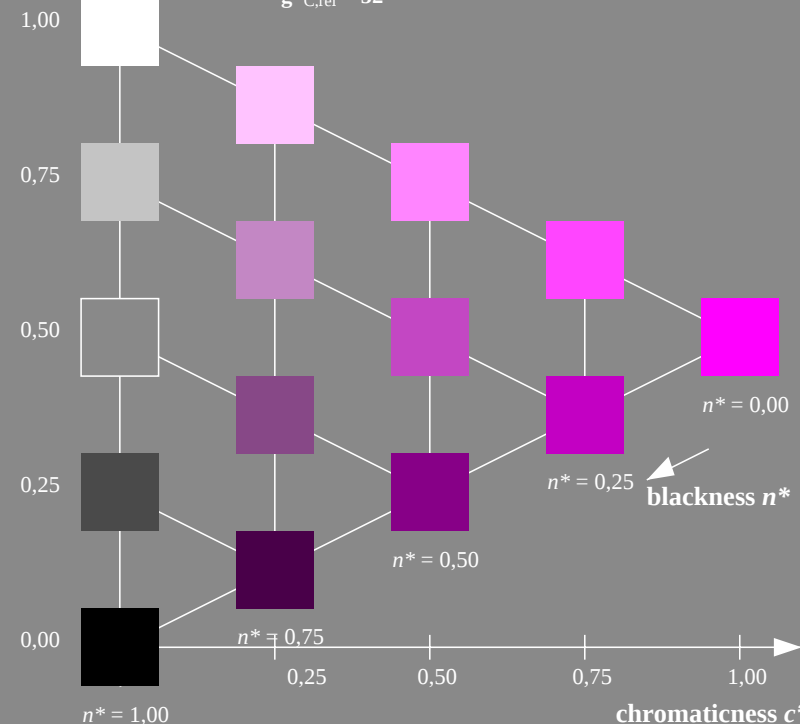
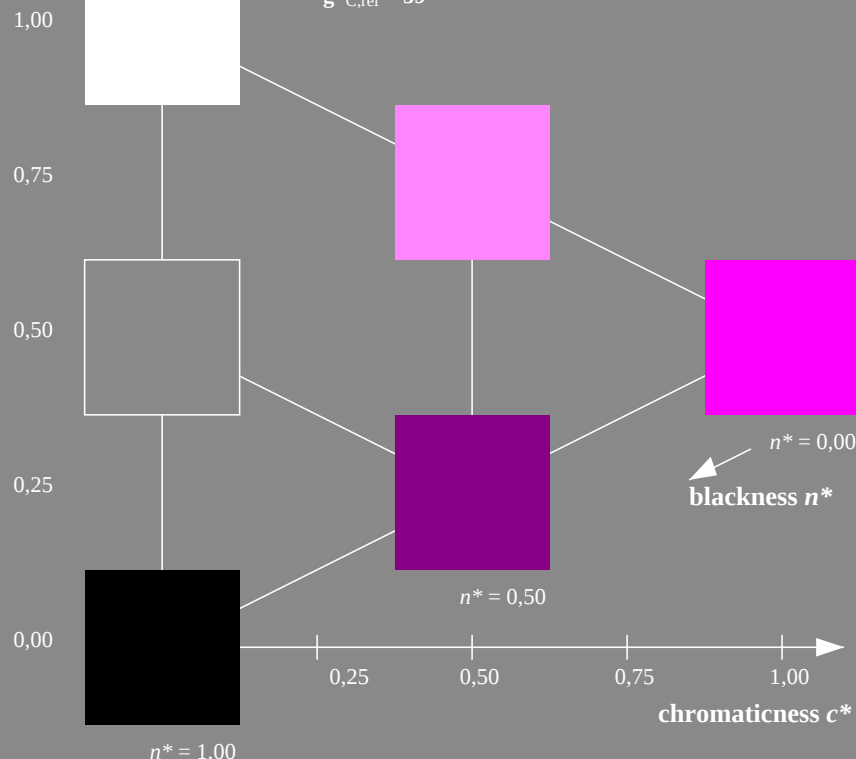
D65: hue B50R  
LCH\*Ma: 35 72 322  
rgb\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 91$   
%Regularity  
 $g^*_{H,\text{rel}} = 41$   
 $g^*_{C,\text{rel}} = 52$

| 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          |



TE600-7, 3 step scales for constant CIELAB hue 354/360 = 0.982 (left)

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

BAM-test chart TE60; Colorimetric systems ORS18 & MRS18  
D65: 3 and 5 step colour scales for 10 hues

input:  $\text{olv}^* \text{setrgbcolor}$   
output:  $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$

See for similar files: <http://www.ps.bam.de/TE60/>  
Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ



BAM registration: 20060101-TE60/10L/L60E06FP.PS/.PDF BAM material: code=rh4ta  
application for evaluation and measurement of printer or monitor systems, Yr=2.5, XYZ  
/TE60 Form: 7/10, Serie: 1/1, Page: 7 Page count: 7

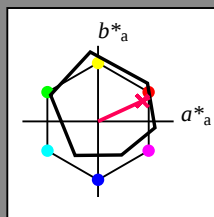


### Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 25/360 = 0.069$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

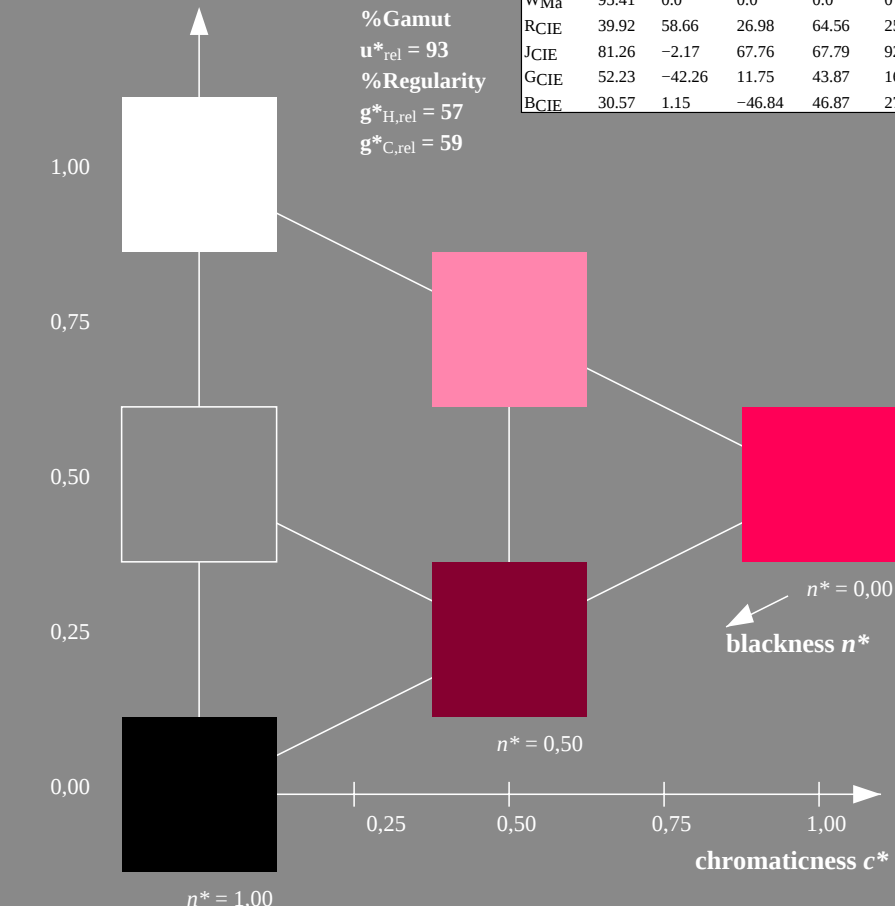
D65: hue R  
LCH\*Ma: 48 75 25  
rgb\*Ma: 1.0 0.0 0.32

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 93$   
%Regularity  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$

| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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            |
| 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          |



TE600-7, 3 step scales for constant CIELAB hue 25/360 = 0.069 (left)



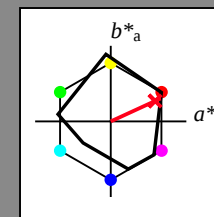
BAM-test chart TE60; Colorimetric systems ORS18 & MRS18  
D65: 3 and 5 step colour scales for 10 hues

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 25/360 = 0.069$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

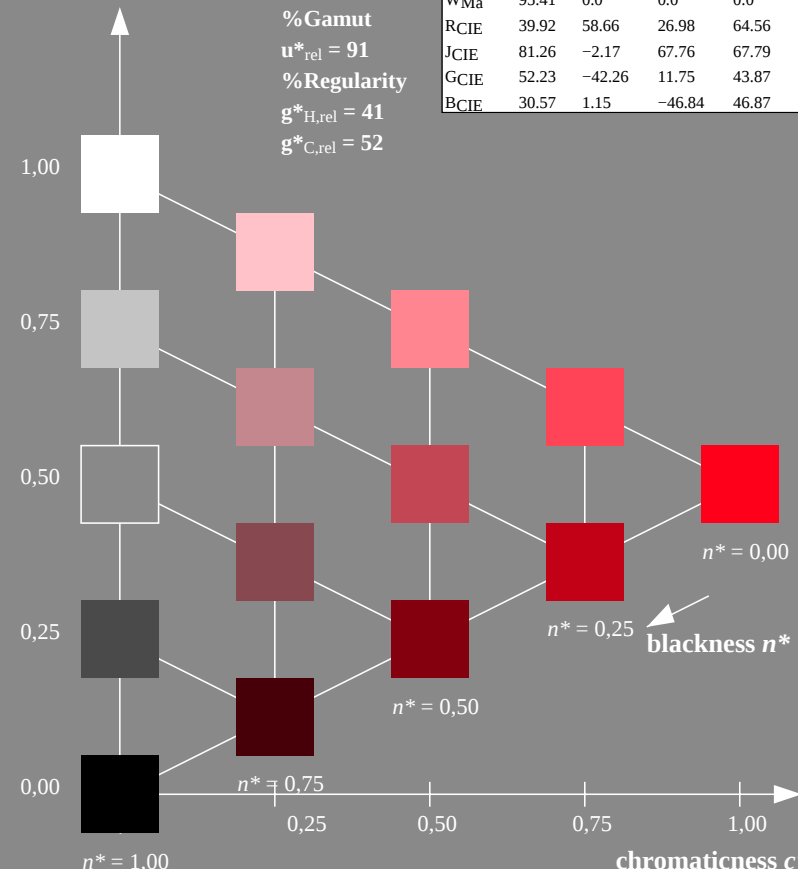
D65: hue R  
LCH\*Ma: 48 73 25  
rgb\*Ma: 1.0 0.0 0.1

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 91$   
%Regularity  
 $g^*_{H,\text{rel}} = 41$   
 $g^*_{C,\text{rel}} = 52$

| 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          |



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

input:  $\text{olv}^* \text{setrgbcolor}$   
output:  $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$



### Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 92/360 = 0.255$

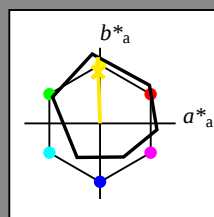
$\text{lab}^*ich$  and  $\text{lab}^*nch$

D65: hue J

LCH\*Ma: 86 88 92

rgb\*Ma: 1.0 0.9 0.0

triangle lightness  $t^*$



%Gamut

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

%Regularity

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

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

### ORS18; adapted (a) CIELAB data

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 92/360 = 0.255$

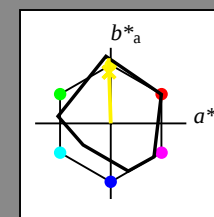
$\text{lab}^*ich$  and  $\text{lab}^*nch$

D65: hue J

LCH\*Ma: 89 86 92

rgb\*Ma: 1.0 0.95 0.0

triangle lightness  $t^*$



%Gamut

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

%Regularity

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

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

### 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

blackness  $n^*$

$n^* = 0,00$

chromaticness  $c^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

blackness  $n^*$

$n^* = 0,00$

chromaticness  $c^*$

TE600-7, 3 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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

BAM-test chart TE60; Colorimetric systems ORS18 & MRS18

D65: 3 and 5 step colour scales for 10 hues

input:  $\text{olv}^* \text{setrgbcolor}$

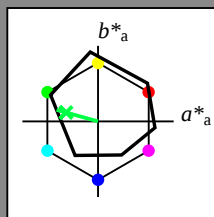
output:  $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$

### Input: Colorimetric Reflective System ORS18

for hue  $h^* = \text{lab}^*h = 164/360 = 0.457$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

D65: hue G  
LCH\*Ma: 53 57 164  
rgb\*Ma: 0.0 1.0 0.25

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 93$   
%Regularity  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$

### ORS18; adapted (a) CIELAB data

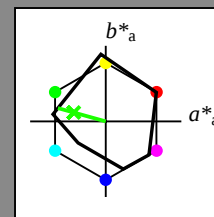
|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.94       | 65.37   | 50.52   | 82.62        | 38           |
| JMa    | 90.37       | -10.27  | 91.77   | 92.34        | 96           |
| 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

for hue  $h^* = \text{lab}^*h = 164/360 = 0.457$   
 $\text{lab}^*ich$  and  $\text{lab}^*nch$

D65: hue G  
LCH\*Ma: 56 66 164  
rgb\*Ma: 0.1 1.0 0.0

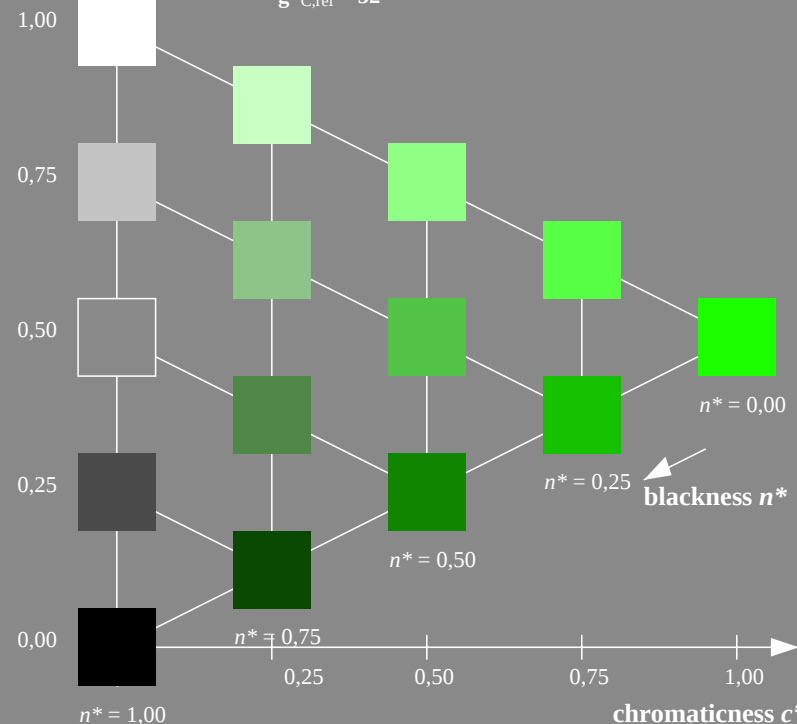
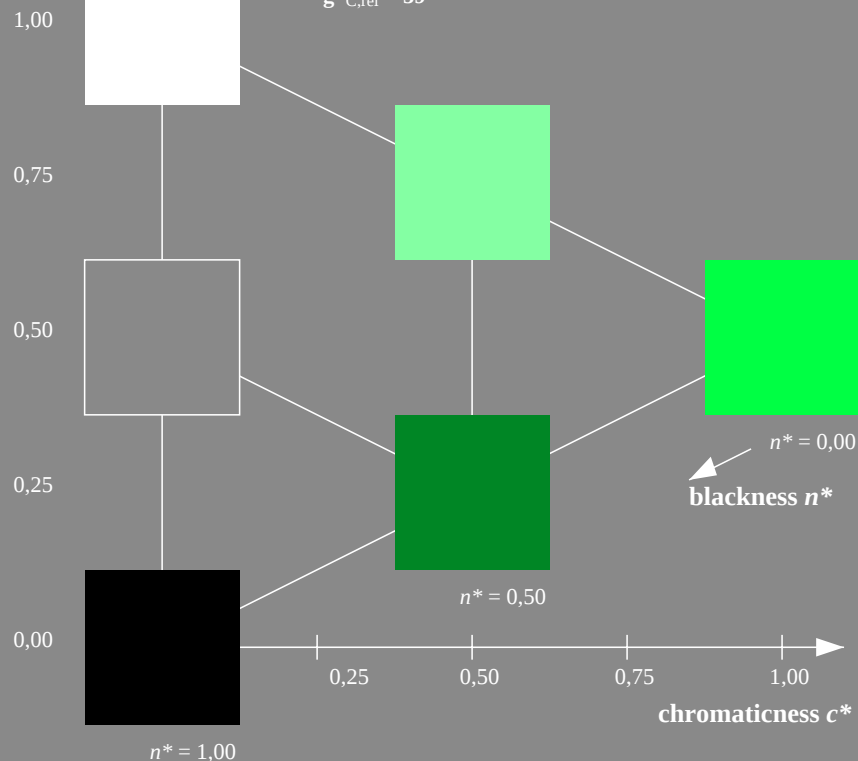
triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 91$   
%Regularity  
 $g^*_{H,\text{rel}} = 41$   
 $g^*_{C,\text{rel}} = 52$

### 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          |



TE600-7, 3 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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

BAM-test chart TE60; Colorimetric systems ORS18 & MRS18  
D65: 3 and 5 step colour scales for 10 hues

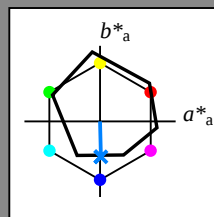
input:  $\text{olv}^* \text{setrgbcolor}$   
output:  $\text{olv}^* \text{setrgbcolor} / w^* \text{setgray}$

### Input: Colorimetric Reflective System ORS18

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

D65: hue B  
LCH\*Ma: 42 45 271  
rgb\*Ma: 0.0 0.49 1.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 93$   
%Regularity  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$

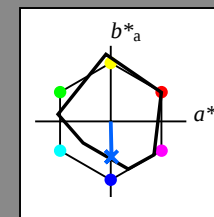
| ORS18; adapted (a) CIELAB data |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 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            |
| 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          |

### Output: Colorimetric Reflective System MRS18

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

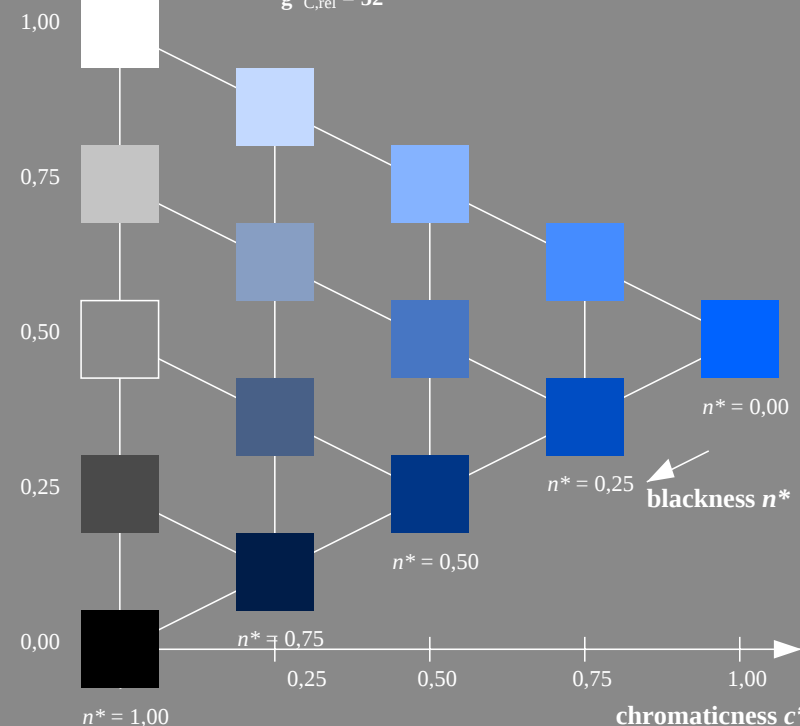
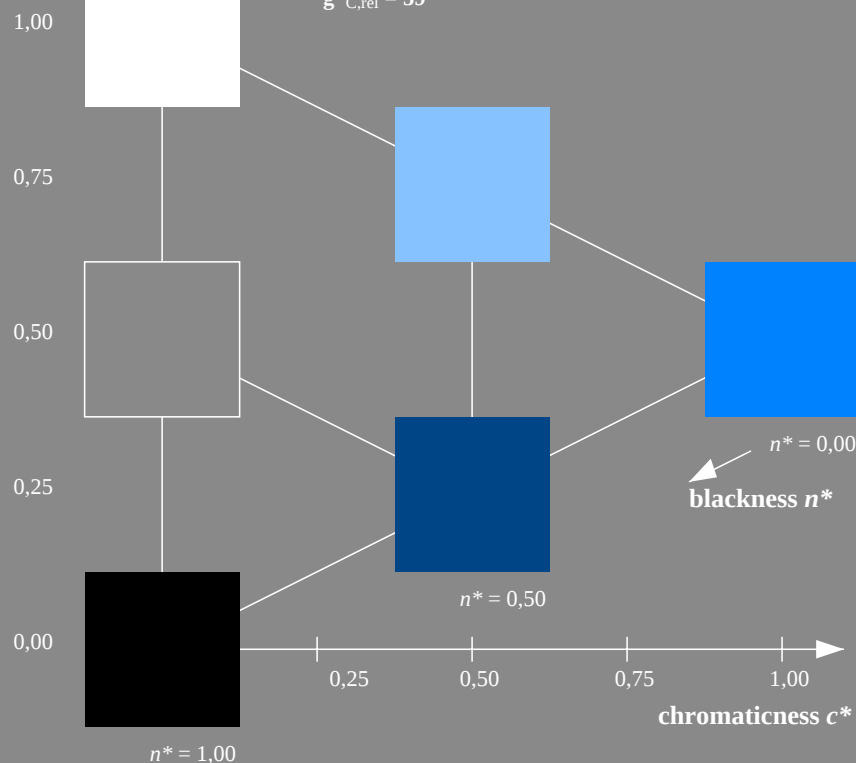
D65: hue B  
LCH\*Ma: 40 50 271  
rgb\*Ma: 0.0 0.37 1.0

triangle lightness  $t^*$



%Gamut  
 $u^*_{\text{rel}} = 91$   
%Regularity  
 $g^*_{H,\text{rel}} = 41$   
 $g^*_{C,\text{rel}} = 52$

| 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          |



TE600-7, 3 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 TE60; Colorimetric systems ORS18 & MRS18  
D65: 3 and 5 step colour scales for 10 hues

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