

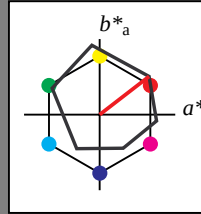
### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 38/360 = 0.105$

$lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L_a^*$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit  $c^*$

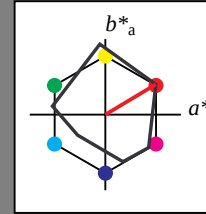
### Ausgabe: Farbmimetrisches Reflexions-System MRS18a

für Buntton  $h^* = lab^*h = 31/360 = 0.086$

$lab^*tch$  und  $lab^*nch$

D65: Buntton R  
LCH\*Ma: 50 78 31  
rgb\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit



| MRS18a; adaptierte CIELAB-Daten |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
|                                 | $L^*=L_a^*$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                             | 49.63       | 66.8    | 40.02   | 77.87        | 31           |
| JMa                             | 90.7        | -7.27   | 93.19   | 93.48        | 94           |
| GMa                             | 52.11       | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa                          | 45.03       | -36.65  | -27.13  | 45.61        | 217          |
| BMa                             | 36.65       | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa                          | 34.94       | 57.27   | -43.6   | 71.99        | 323          |
| NMa                             | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                            | 39.92       | 58.67   | 27.97   | 64.99        | 25           |
| JCIE                            | 81.26       | -2.91   | 71.56   | 71.62        | 92           |
| GCIE                            | 52.23       | -42.47  | 13.58   | 44.6         | 162          |
| BCIE                            | 30.57       | 1.33    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit  $c^*$

UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (links)

5 stufige Reihen für konstanten CIELAB Buntton 31/360 = 0.086 (rechts)

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18a

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne

input:  $cmY0^* setcmykcolor$

output: no change compared to input

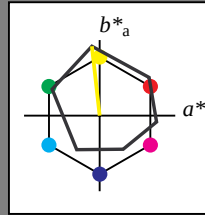
### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = \text{lab}^*h = 96/360 = 0.268$

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

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

Dreiecks-Helligkeit



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit  $c^*$

UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (links)

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne

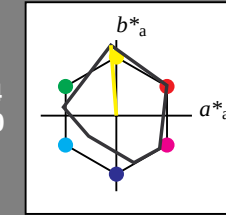
### Ausgabe: Farbmimetrisches Reflexions-System MRS18a

für Buntton  $h^* = \text{lab}^*h = 94/360 = 0.262$

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

D65: Buntton J  
LCH\*Ma: 91 93 94  
rgb\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 92$

| MRS18a; adaptierte CIELAB-Daten |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
|                                 | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                             | 49.63       | 66.8    | 40.02   | 77.87        | 31           |
| JMa                             | 90.7        | -7.27   | 93.19   | 93.48        | 94           |
| GMa                             | 52.11       | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa                          | 45.03       | -36.65  | -27.13  | 45.61        | 217          |
| BMa                             | 36.65       | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa                          | 34.94       | 57.27   | -43.6   | 71.99        | 323          |
| NMa                             | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                            | 39.92       | 58.67   | 27.97   | 64.99        | 25           |
| JCIE                            | 81.26       | -2.91   | 71.56   | 71.62        | 92           |
| GCIE                            | 52.23       | -42.47  | 13.58   | 44.6         | 162          |
| BCIE                            | 30.57       | 1.33    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit  $c^*$

5 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.262 (rechts)

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

output: no change compared to input

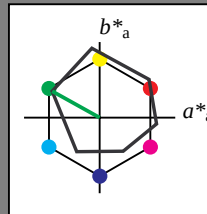
### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 151/360 = 0.419$   
 $lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit

1,00



% Umfang

$u^*_{rel} = 93$

### ORS18; adaptierte CIELAB-Daten

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

%Regularität

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

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

1,00

| relative Inform. Technology (IT) | $olvi3^*$  | 1.0   | 1.0  | 1.0 | (1.0) |
|----------------------------------|------------|-------|------|-----|-------|
| $cmyn3^*$                        | 0.0        | 0.0   | 0.0  | 0.0 | (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 | 0.01 | 0.0 |       |
| $LAB^*TCh$                       | 98.99      | 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 |       |
| $lab^*tce$                       | 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 | (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 | 0.03 | 0.0  |       |
| $LAB^*TCh$                       | 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  |       |
| $lab^*tce$                       | 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 | (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 | 0.05 | 0.0 |       |
| $LAB^*TCh$                       | 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 |       |
| $lab^*tce$                       | 0.5        | 0.0   | 0.0  |     |       |
| $lab^*nce$                       | 0.5        | 0.0   | 0.0  |     |       |

| relative CIELAB lab*         |      |     |     |
|------------------------------|------|-----|-----|
| lab*lab                      | 0.75 | 0.0 | 0.0 |
| lab*tch                      | 0.75 | 0.0 | -   |
| lab*nch                      | 0.25 | 0.0 | -   |
| relative Natural Colour (NC) |      |     |     |
| lab*lrj                      | 0.75 | 0.0 | 0.0 |
| lab*tce                      | 0.75 | 0.0 | -   |
| lab*nce                      | 0.25 | 0.0 | -   |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.1   | 0.1  | 0.1 | (1.0) |
|----------------------------------|------------|-------|------|-----|-------|
| $cmyn3^*$                        | 0.9        | 0.9   | 0.9  | 0.9 | (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 | 0.07 | 0.0 |       |
| $LAB^*TCh$                       | 37.36      | 0.07  | 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  |     |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 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) | $olvi3^*$  | 0.05  | 0.05 | 0.05 | (1.0) |
|----------------------------------|------------|-------|------|------|-------|
| $cmyn3^*$                        | 0.95       | 0.95  | 0.95 | 0.95 | (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      | $LAB^*LAB$ | 30.57 | 0.07 | 0.0  |       |
| $LAB^*TCh$                       | 30.57      | 0.07  | 0.0  |      |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.05  | 0.0  | 0.0  |       |
| $lab^*tch$                       | 0.05       | 0.0   | 0.0  |      |       |
| $lab^*nch$                       | 0.05       | 0.0   | 0.0  |      |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.05  | 0.0  | 0.0  |       |
| $lab^*tce$                       | 0.05       | 0.0   | 0.0  |      |       |
| $lab^*nce$                       | 0.05       | 0.0   | 0.0  |      |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.025 | 0.025 | 0.025 | (1.0) |
|----------------------------------|------------|-------|-------|-------|-------|
| $cmyn3^*$                        | 0.975      | 0.975 | 0.975 | 0.975 | (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      | $LAB^*LAB$ | 25.0  | 0.07  | 0.0   |       |
| $LAB^*TCh$                       | 25.0       | 0.07  | 0.0   |       |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.025 | 0.0   | 0.0   |       |
| $lab^*tch$                       | 0.025      | 0.0   | 0.0   |       |       |
| $lab^*nch$                       | 0.025      | 0.0   | 0.0   |       |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.025 | 0.0   | 0.0   |       |
| $lab^*tce$                       | 0.025      | 0.0   | 0.0   |       |       |
| $lab^*nce$                       | 0.025      | 0.0   | 0.0   |       |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.01  | 0.01 | 0.01 | (1.0) |
|----------------------------------|------------|-------|------|------|-------|
| $cmyn3^*$                        | 0.99       | 0.99  | 0.99 | 0.99 | (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 | 0.07 | 0.0  |       |
| $LAB^*TCh$                       | 18.02      | 0.07  | 0.0  |      |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.01  | 0.0  | 0.0  |       |
| $lab^*tch$                       | 0.01       | 0.0   | 0.0  |      |       |
| $lab^*nch$                       | 0.01       | 0.0   | 0.0  |      |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.01  | 0.0  | 0.0  |       |
| $lab^*tce$                       | 0.01       | 0.0   | 0.0  |      |       |
| $lab^*nce$                       | 0.01       | 0.0   | 0.0  |      |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.005 | 0.005 | 0.005 | (1.0) |
|----------------------------------|------------|-------|-------|-------|-------|
| $cmyn3^*$                        | 0.995      | 0.995 | 0.995 | 0.995 | (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      | $LAB^*LAB$ | 10.0  | 0.07  | 0.0   |       |
| $LAB^*TCh$                       | 10.0       | 0.07  | 0.0   |       |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.005 | 0.0   | 0.0   |       |
| $lab^*tch$                       | 0.005      | 0.0   | 0.0   |       |       |
| $lab^*nch$                       | 0.005      | 0.0   | 0.0   |       |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.005 | 0.0   | 0.0   |       |
| $lab^*tce$                       | 0.005      | 0.0   | 0.0   |       |       |
| $lab^*nce$                       | 0.005      | 0.0   | 0.0   |       |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.001 | 0.001 | 0.001 | (1.0) |
|----------------------------------|------------|-------|-------|-------|-------|
| $cmyn3^*$                        | 0.999      | 0.999 | 0.999 | 0.999 | (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      | $LAB^*LAB$ | 5.0   | 0.07  | 0.0   |       |
| $LAB^*TCh$                       | 5.0        | 0.07  | 0.0   |       |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.001 | 0.0   | 0.0   |       |
| $lab^*tch$                       | 0.001      | 0.0   | 0.0   |       |       |
| $lab^*nch$                       | 0.001      | 0.0   | 0.0   |       |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.001 | 0.0   | 0.0   |       |
| $lab^*tce$                       | 0.001      | 0.0   | 0.0   |       |       |
| $lab^*nce$                       | 0.001      | 0.0   | 0.0   |       |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.0005 | 0.0005 | 0.0005 | (1.0) |
|----------------------------------|------------|--------|--------|--------|-------|
| $cmyn3^*$                        | 0.9995     | 0.9995 | 0.9995 | 0.9995 | (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      | $LAB^*LAB$ | 2.5    | 0.07   | 0.0    |       |
| $LAB^*TCh$                       | 2.5        | 0.07   | 0.0    |        |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.0005 | 0.0    | 0.0    |       |
| $lab^*tch$                       | 0.0005     | 0.0    | 0.0    |        |       |
| $lab^*nch$                       | 0.0005     | 0.0    | 0.0    |        |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.0005 | 0.0    | 0.0    |       |
| $lab^*tce$                       | 0.0005     | 0.0    | 0.0    |        |       |
| $lab^*nce$                       | 0.0005     | 0.0    | 0.0    |        |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.0001 | 0.0001 | 0.0001 | (1.0) |
|----------------------------------|------------|--------|--------|--------|-------|
| $cmyn3^*$                        | 0.9999     | 0.9999 | 0.9999 | 0.9999 | (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      | $LAB^*LAB$ | 1.0    | 0.07   | 0.0    |       |
| $LAB^*TCh$                       | 1.0        | 0.07   | 0.0    |        |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.0001 | 0.0    | 0.0    |       |
| $lab^*tch$                       | 0.0001     | 0.0    | 0.0    |        |       |
| $lab^*nch$                       | 0.0001     | 0.0    | 0.0    |        |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.0001 | 0.0    | 0.0    |       |
| $lab^*tce$                       | 0.0001     | 0.0    | 0.0    |        |       |
| $lab^*nce$                       | 0.0001     | 0.0    | 0.0    |        |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.00005 | 0.00005 | 0.00005 | (1.0) |
|----------------------------------|------------|---------|---------|---------|-------|
| $cmyn3^*$                        | 0.99995    | 0.99995 | 0.99995 | 0.99995 | (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      | $LAB^*LAB$ | 0.5     | 0.07    | 0.0     |       |
| $LAB^*TCh$                       | 0.5        | 0.07    | 0.0     |         |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.00005 | 0.0     | 0.0     |       |
| $lab^*tch$                       | 0.00005    | 0.0     | 0.0     |         |       |
| $lab^*nch$                       | 0.00005    | 0.0     | 0.0     |         |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.00005 | 0.0     | 0.0     |       |
| $lab^*tce$                       | 0.00005    | 0.0     | 0.0     |         |       |
| $lab^*nce$                       | 0.00005    | 0.0     | 0.0     |         |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.00001 | 0.00001 | 0.00001 | (1.0) |
|----------------------------------|------------|---------|---------|---------|-------|
| $cmyn3^*$                        | 0.99999    | 0.99999 | 0.99999 | 0.99999 | (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      | $LAB^*LAB$ | 0.25    | 0.07    | 0.0     |       |
| $LAB^*TCh$                       | 0.25       | 0.07    | 0.0     |         |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.00001 | 0.0     | 0.0     |       |
| $lab^*tch$                       | 0.00001    | 0.0     | 0.0     |         |       |
| $lab^*nch$                       | 0.00001    | 0.0     | 0.0     |         |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.00001 | 0.0     | 0.0     |       |
| $lab^*tce$                       | 0.00001    | 0.0     | 0.0     |         |       |
| $lab^*nce$                       | 0.00001    | 0.0     | 0.0     |         |       |

| relative Inform. Technology (IT) | $olvi3^*$  | 0.000005 | 0.000005 | 0.000005 | (1.0) |
|----------------------------------|------------|----------|----------|----------|-------|
| $cmyn3^*$                        | 0.999995   | 0.999995 | 0.999995 | 0.999995 | (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      | $LAB^*LAB$ | 0.125    | 0.07     | 0.0      |       |
| $LAB^*TCh$                       | 0.125      | 0.07     | 0.0      |          |       |
| relative CIELAB lab*             | $lab^*lab$ | 0.000005 | 0.0      | 0.0      |       |
| $lab^*tch$                       | 0.000005   | 0.0      | 0.0      |          |       |
| $lab^*nch$                       | 0.000005   | 0.0      | 0.0      |          |       |
| relative Natural Colour (NC)     | $lab^*trj$ | 0.000005 | 0.0      | 0.0      |       |
| $lab^*tce$                       | 0.000005   | 0.0      | 0.0      |          |       |
| $lab^*nce$                       | 0.000005   | 0.0      | 0.0      |          |       |

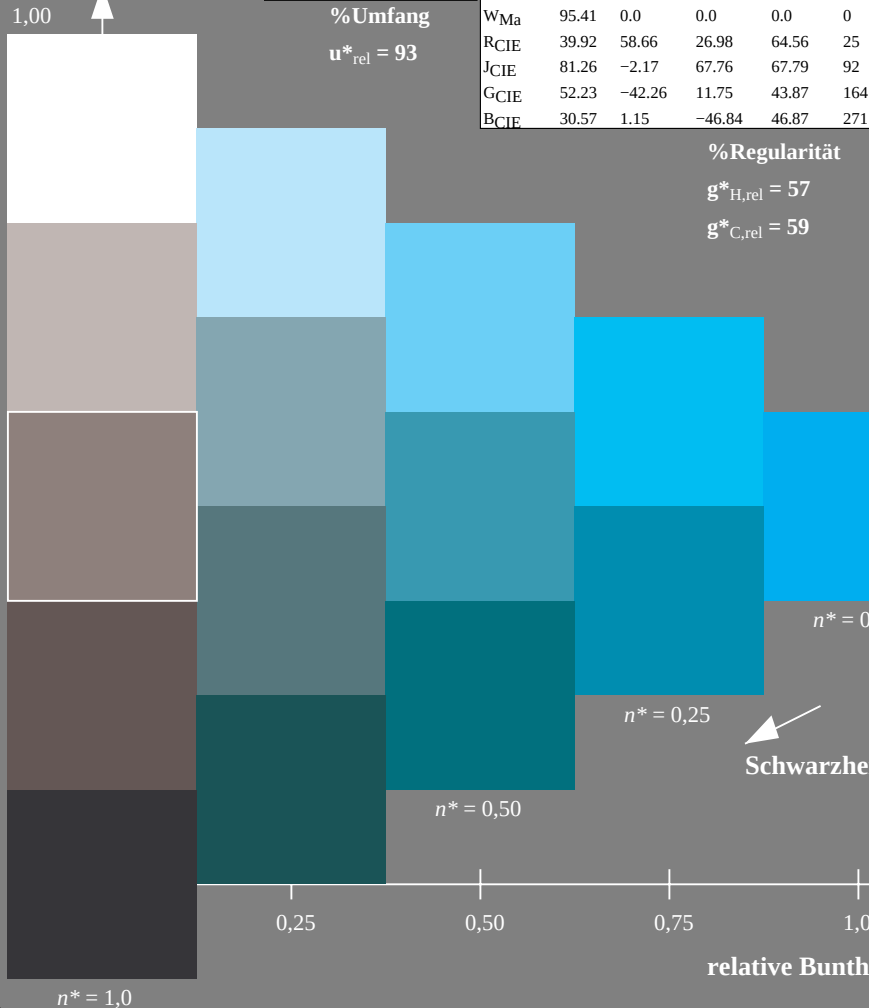
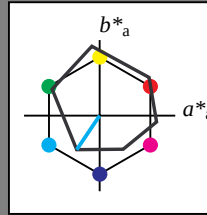
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|--|---|
|  | 0 |
|--|---|

### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 236/360 = 0.656$   
 $lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit



UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links)

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18

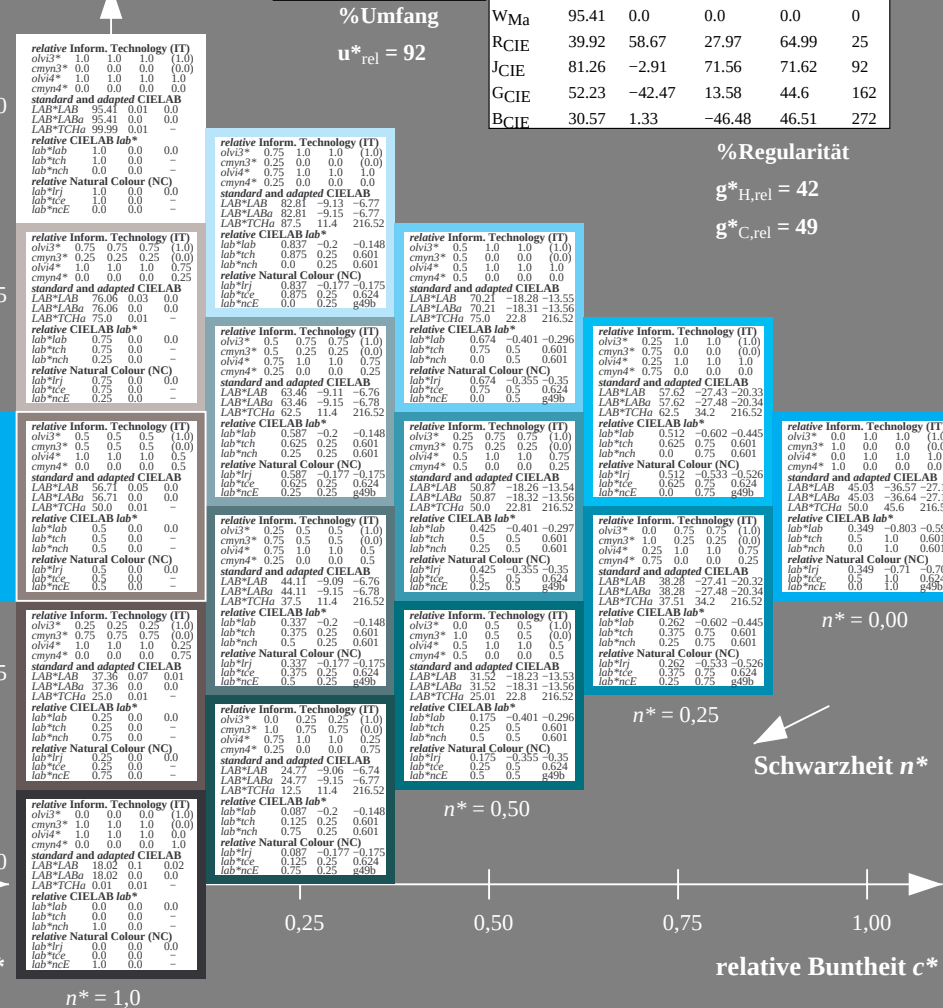
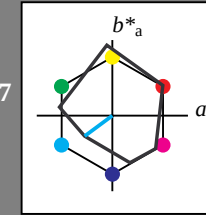
D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne

### Ausgabe: Farbmimetrisches Reflexions-System MRS18a

für Buntton  $h^* = lab^*h = 217/360 = 0.601$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton G50B  
LCH\*Ma: 45 46 217  
rgb\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit



5 stufige Reihen für konstanten CIELAB Buntton 217/360 = 0.601 (rechts)

input: cmy0\* setcmykcolor

output: no change compared to input



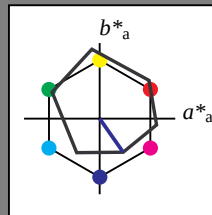
### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 305/360 = 0.847$   
 $lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit

1,00



%Umfang

$u^*_{rel} = 93$

### ORS18; adaptierte CIELAB-Daten

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

%Regularität

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

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

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 | 0.01 | 0.0 |       |
| LAB*LABa                         | 95.41 | 0.01 | 0.0 |       |
| LAB*LABb                         | 95.41 | 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 |       |
| 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 | (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 | 0.03 | 0.0  |       |
| LAB*LABa                         | 76.06 | 0.03 | 0.0  |       |
| LAB*LABb                         | 76.06 | 0.03 | 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 | (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 | 0.05 | 0.0 |       |
| LAB*LABa                         | 56.71 | 0.05 | 0.0 |       |
| LAB*LABb                         | 56.71 | 0.05 | 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*                           | 0.25  | 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 | 0.07 | 0.0  |       |
| LAB*LABa                         | 37.36 | 0.07 | 0.0  |       |
| LAB*LABb                         | 37.36 | 0.07 | 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  |       |
| lab*trj                          | 0.25  | 0.0  | 0.0  |       |
| lab*tce                          | 0.25  | 0.0  | 0.0  |       |
| lab*nce                          | 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  | (0.0) |
| standard and adapted CIELAB      |       |     |      |       |
| LAB*LAB                          | 18.02 | 0.1 | 0.02 |       |
| LAB*LABa                         | 18.02 | 0.1 | 0.02 |       |
| LAB*LABb                         | 18.02 | 0.1 | 0.02 |       |
| 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  |       |
| lab*trj                          | 0.0   | 0.0 | 0.0  |       |
| lab*tce                          | 0.0   | 0.0 | 0.0  |       |
| lab*nce                          | 1.0   | 0.0 | 0.0  |       |

$n^* = 1,0$

relative Natural Colour (NC)

lab\*trj

lab\*tce

lab\*nce

lab\*trj

lab\*tce

lab\*nce

lab\*trj

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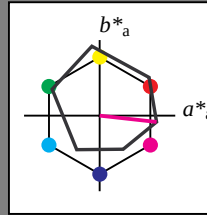
lab\*tce

### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 354/360 = 0.982$   
 $lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |

%Regularität

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

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

1,00

0,75

Schwarzheit  $n^*$

relative Buntheit  $c^*$

UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (links)

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18

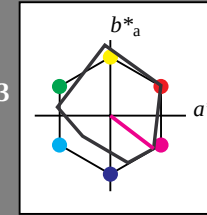
D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne

### Ausgabe: Farbmimetrisches Reflexions-System MRS18a

für Buntton  $h^* = lab^*h = 323/360 = 0.896$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton B50R  
LCH\*Ma: 35 72 323  
rgb\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit



| MRS18a; adaptierte CIELAB-Daten |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
|                                 | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                             | 49.63       | 66.8    | 40.02   | 77.87        | 31           |
| JMa                             | 90.7        | -7.27   | 93.19   | 93.48        | 94           |
| GMa                             | 52.11       | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa                          | 45.03       | -36.65  | -27.13  | 45.61        | 217          |
| BMa                             | 36.65       | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa                          | 34.94       | 57.27   | -43.6   | 71.99        | 323          |
| NMa                             | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                            | 39.92       | 58.67   | 27.97   | 64.99        | 25           |
| JCIE                            | 81.26       | -2.91   | 71.56   | 71.62        | 92           |
| GCIE                            | 52.23       | -42.47  | 13.58   | 44.6         | 162          |
| BCIE                            | 30.57       | 1.33    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1,00

0,75

Schwarzheit  $n^*$

relative Buntheit  $c^*$

5 stufige Reihen für konstanten CIELAB Buntton 323/360 = 0.896 (rechts)

input:  $cmY0^* setcmykcolor$

output:  $no change compared to input$

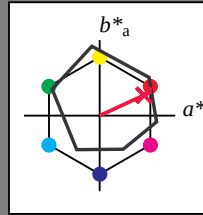
### Eingabe: Farbmatisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 25/360 = 0.069$

$lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit  $c^*$

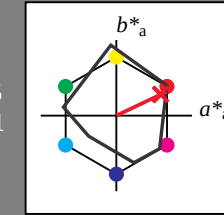
### Ausgabe: Farbmatisches Reflexions-System MRS18a

für Buntton  $h^* = lab^*h = 25/360 = 0.071$

$lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit



| MRS18a; adaptierte CIELAB-Daten |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
|                                 | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                             | 49.63       | 66.8    | 40.02   | 77.87        | 31           |
| JMa                             | 90.7        | -7.27   | 93.19   | 93.48        | 94           |
| GMa                             | 52.11       | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa                          | 45.03       | -36.65  | -27.13  | 45.61        | 217          |
| BMa                             | 36.65       | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa                          | 34.94       | 57.27   | -43.6   | 71.99        | 323          |
| NMa                             | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                            | 39.92       | 58.67   | 27.97   | 64.99        | 25           |
| JCIE                            | 81.26       | -2.91   | 71.56   | 71.62        | 92           |
| GCIE                            | 52.23       | -42.47  | 13.58   | 44.6         | 162          |
| BCIE                            | 30.57       | 1.33    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit  $c^*$

UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)

5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (rechts)

BAM-Prüfvorlage UG41; Farbmatrik-Systeme ORS18 & MRS18a

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne  
input:  $cmy0^* setcmykcolor$   
output:  $no\ change\ compared\ to\ input$

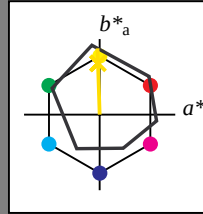
### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 92/360 = 0.255$

$lab^*tch$  und  $lab^*nch$

D65: Buntton J  
LCH\*Ma: 86 88 92  
rgb\*Ma: 1.0 0.9 0.0

Dreiecks-Helligkeit



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit  $c^*$

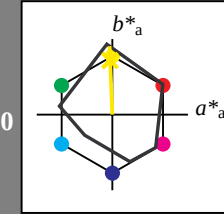
### Ausgabe: Farbmimetrisches Reflexions-System MRS18a

für Buntton  $h^* = lab^*h = 92/360 = 0.256$

$lab^*tch$  und  $lab^*nch$

D65: Buntton J  
LCH\*Ma: 89 91 92  
rgb\*Ma: 1.0 0.95 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 92$

| MRS18a; adaptierte CIELAB-Daten |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
|                                 | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                             | 49.63       | 66.8    | 40.02   | 77.87        | 31           |
| JMa                             | 90.7        | -7.27   | 93.19   | 93.48        | 94           |
| GMa                             | 52.11       | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa                          | 45.03       | -36.65  | -27.13  | 45.61        | 217          |
| BMa                             | 36.65       | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa                          | 34.94       | 57.27   | -43.6   | 71.99        | 323          |
| NMa                             | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                            | 39.92       | 58.67   | 27.97   | 64.99        | 25           |
| JCIE                            | 81.26       | -2.91   | 71.56   | 71.62        | 92           |
| GCIE                            | 52.23       | -42.47  | 13.58   | 44.6         | 162          |
| BCIE                            | 30.57       | 1.33    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit  $c^*$

UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (links)

5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (rechts)

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18a

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne

input:  $cmy0^* setcmykcolor$

output: no change compared to input

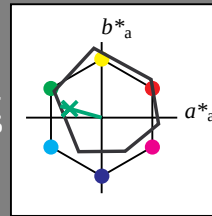


### Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 164/360 = 0.457$   
 $lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L_a^*$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |

%Regularität

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

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

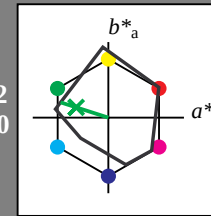
1,00

### Ausgabe: Farbmimetrisches Reflexions-System MRS18a

für Buntton  $h^* = lab^*h = 162/360 = 0.451$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton G  
LCH\*Ma: 56 66 162  
rgb\*Ma: 0.11 1.0 0.0

Dreiecks-Helligkeit



| MRS18a; adaptierte CIELAB-Daten |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
|                                 | $L^*=L_a^*$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                             | 49.63       | 66.8    | 40.02   | 77.87        | 31           |
| JMa                             | 90.7        | -7.27   | 93.19   | 93.48        | 94           |
| GMa                             | 52.11       | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa                          | 45.03       | -36.65  | -27.13  | 45.61        | 217          |
| BMa                             | 36.65       | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa                          | 34.94       | 57.27   | -43.6   | 71.99        | 323          |
| NMa                             | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| WMa                             | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                            | 39.92       | 58.67   | 27.97   | 64.99        | 25           |
| JCIE                            | 81.26       | -2.91   | 71.56   | 71.62        | 92           |
| GCIE                            | 52.23       | -42.47  | 13.58   | 44.6         | 162          |
| BCIE                            | 30.57       | 1.33    | -46.48  | 46.51        | 272          |

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

0,75

| 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 | 0.01 | 0.0 |       |  |
| LAB*LABa                         | 95.41 | 0.01 | 0.0 |       |  |
| LAB*LABb                         | 95.41 | 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 |       |  |
| lab*trj                          | 1.0   | 0.0  | 0.0 |       |  |
| relative Natural Colour (NC)     |       |      |     |       |  |
| lab*nce                          | 1.0   | 0.0  | 0.0 |       |  |
| lab*nce                          | 0.0   | 0.0  | 0.0 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.777 | 1.0  | 0.75  | (1.0) |  |
| cmyn3*                           | 0.223 | 0.0  | 0.25  | (0.0) |  |
| olvi4*                           | 0.777 | 1.0  | 0.75  | (1.0) |  |
| cmyn4*                           | 0.223 | 0.0  | 0.25  | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 85.63 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 85.63 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 85.63 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.875 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.0   | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.875 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.875 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.0   | 0.25 | 0.451 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.554 | 1.0  | 0.5   | (1.0) |  |
| cmyn3*                           | 0.446 | 0.0  | 0.5   | (0.0) |  |
| olvi4*                           | 0.554 | 1.0  | 0.5   | (1.0) |  |
| cmyn4*                           | 0.446 | 0.0  | 0.5   | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 75.86 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 75.86 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 75.86 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.747 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.0   | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.747 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.747 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.0   | 0.25 | 0.451 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.332 | 1.0  | 0.332 | (1.0) |  |
| cmyn3*                           | 0.668 | 0.0  | 0.332 | (0.0) |  |
| olvi4*                           | 0.332 | 1.0  | 0.332 | (1.0) |  |
| cmyn4*                           | 0.668 | 0.0  | 0.332 | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 66.08 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 66.08 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 66.08 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.621 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.0   | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.621 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.621 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.0   | 0.25 | 0.451 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.109 | 1.0  | 0.0   | (1.0) |  |
| cmyn3*                           | 0.891 | 0.0  | 1.0   | (0.0) |  |
| olvi4*                           | 0.109 | 1.0  | 0.0   | (1.0) |  |
| cmyn4*                           | 0.891 | 0.0  | 1.0   | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 56.31 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 56.31 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 56.31 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.495 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.0   | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.495 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.495 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.0   | 0.25 | 0.451 |       |  |

0,25

| 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 | 0.05 | 0.0 |       |  |
| LAB*LABa                         | 56.71 | 0.05 | 0.0 |       |  |
| LAB*LABb                         | 56.71 | 0.05 | 0.0 |       |  |
| relative CIELAB lab*             |       |      |     |       |  |
| lab*lab                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*tch                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*nch                          | 0.0   | 0.0  | 0.0 |       |  |
| lab*trj                          | 0.5   | 0.0  | 0.0 |       |  |
| relative Natural Colour (NC)     |       |      |     |       |  |
| lab*nce                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*nce                          | 0.0   | 0.0  | 0.0 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.527 | 0.5  | 0.5   | (1.0) |  |
| cmyn3*                           | 0.473 | 0.5  | 0.5   | (0.0) |  |
| olvi4*                           | 0.777 | 1.0  | 0.75  | (1.0) |  |
| cmyn4*                           | 0.223 | 0.0  | 0.25  | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 66.28 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 66.28 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 66.28 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.624 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.25  | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.624 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.624 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.25  | 0.25 | 0.451 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.304 | 0.5  | 0.25  | (1.0) |  |
| cmyn3*                           | 0.696 | 0.25 | 0.75  | (0.0) |  |
| olvi4*                           | 0.554 | 1.0  | 0.5   | (1.0) |  |
| cmyn4*                           | 0.446 | 0.0  | 0.5   | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 56.51 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 56.51 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 56.51 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.497 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.0   | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.497 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.497 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.0   | 0.25 | 0.451 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.182 | 0.5  | 0.0   | (1.0) |  |
| cmyn3*                           | 0.818 | 0.25 | 1.0   | (0.0) |  |
| olvi4*                           | 0.332 | 1.0  | 0.25  | (1.0) |  |
| cmyn4*                           | 0.668 | 0.0  | 0.75  | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 46.73 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 46.73 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 46.73 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.521 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.0   | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.521 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.521 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.0   | 0.25 | 0.451 |       |  |

| relative Inform. Technology (IT) |       |      |       |       |  |
|----------------------------------|-------|------|-------|-------|--|
| olvi3*                           | 0.082 | 0.5  | 0.0   | (1.0) |  |
| cmyn3*                           | 0.918 | 0.25 | 1.0   | (0.0) |  |
| olvi4*                           | 0.109 | 1.0  | 0.0   | (1.0) |  |
| cmyn4*                           | 0.891 | 0.0  | 1.0   | (0.0) |  |
| standard and adapted CIELAB      |       |      |       |       |  |
| LAB*LAB                          | 36.31 | 0.01 | 0.0   |       |  |
| LAB*LABa                         | 36.31 | 0.01 | 0.0   |       |  |
| LAB*LABb                         | 36.31 | 0.01 | 0.0   |       |  |
| relative CIELAB lab*             |       |      |       |       |  |
| lab*lab                          | 1.0   | 0.0  | 0.0   |       |  |
| lab*tch                          | 0.495 | 0.25 | 0.451 |       |  |
| lab*nch                          | 0.0   | 0.25 | 0.451 |       |  |
| lab*trj                          | 0.495 | 0.25 | 0.451 |       |  |
| relative Natural Colour (NC)     |       |      |       |       |  |
| lab*nce                          | 0.495 | 0.25 | 0.451 |       |  |
| lab*nce                          | 0.0   | 0.25 | 0.451 |       |  |

0,00

| 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  | (0.75) |
| standard and adapted CIELAB      |       |      |      |        |
| LAB*LAB                          | 37.36 | 0.07 | 0.01 |        |
| LAB*LABa                         | 37.36 | 0.0  | 0.0  |        |
| LAB*TCHa                         | 25.0  | 0.01 | -    |        |
| relative CIELAB LAB*             |       |      |      |        |
| lab*lab                          | 0.25  | 0.0  | 0.0  |        |
| lab*ich                          | 0.25  | 0.0  | -    |        |
| lab*mch                          | 0.75  | 0.0  | -    |        |
| relative Natural Colour (NC)     |       |      |      |        |
| lab*lrj                          | 0.25  | 0.0  | 0.0  |        |
| lab*icc                          | 0.25  | 0.0  | -    |        |

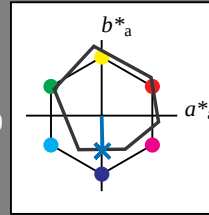
## Eingabe: Farbmétrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 271/360 = 0.754$

**lab\*tch und lab\*nch**

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

## Dreiecks-Helligkeit

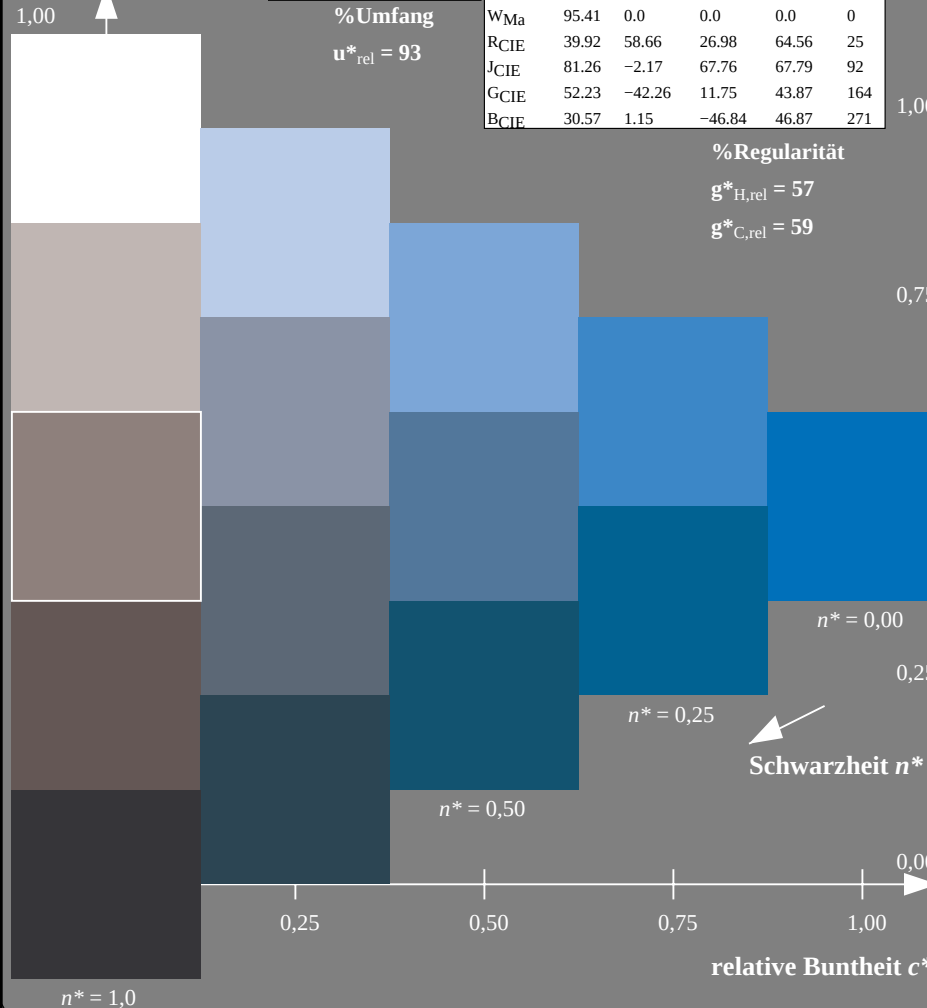


**%Umfang**

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

| ORS18; adaptierte CIELAB-Daten |         |         |         |              |              |
|--------------------------------|---------|---------|---------|--------------|--------------|
|                                | $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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          |

**%Regularität**

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


UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton  $271/360 = 0.754$  (links)

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18input: cmy0\* setcmykcolor

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *no change compared to input*

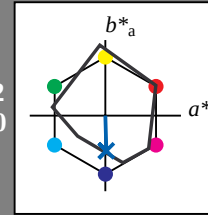
**Ausgabe: Farbmétrisches Reflexions-System MRS18a**

für Buntton  $h^* = lab^*h = 272/360 = 0.755$

**lab\*tch und lab\*nch**

D65: Buntton B  
LCH\*Ma: 40 49 272  
rgb\*Ma: 0.0 0.36 1.0

## Dreiecks-Helligkeit



**%Umfan**

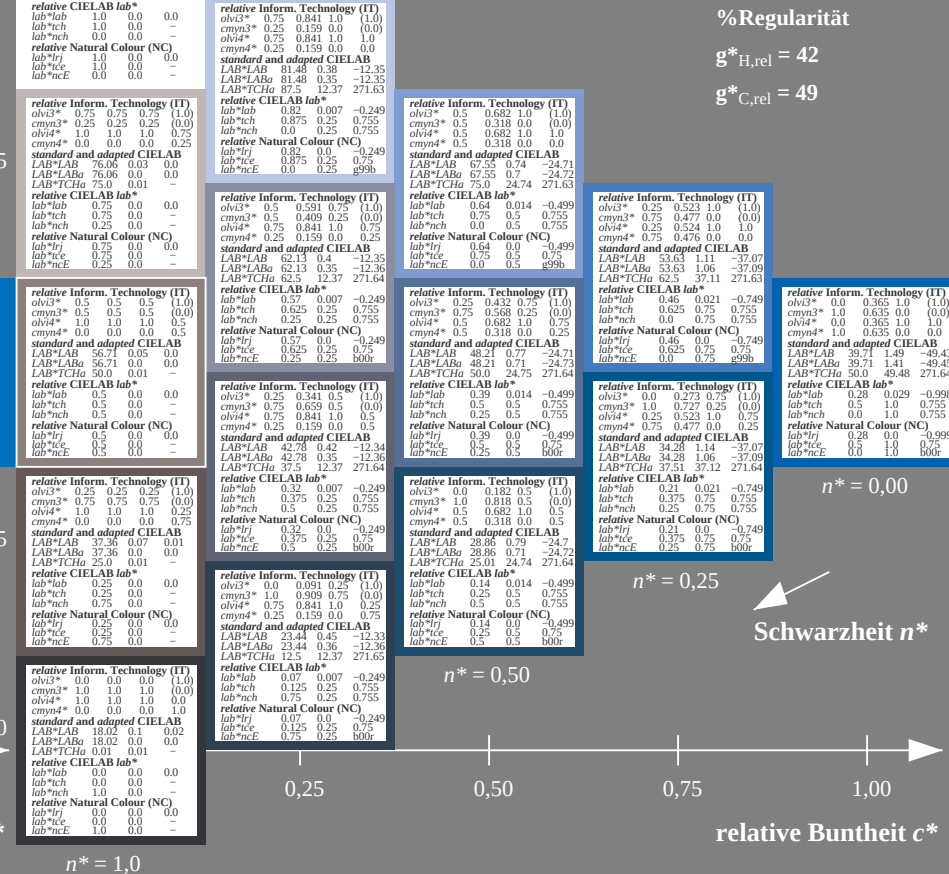
$$\mathbf{u}_{\text{rel}}^* = 9\%$$

| 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 | 0.01 | 0.0 |       |
| LAB*LABa                         | 95.41 | 0.0  | 0.0 |       |
| LAB*LABb                         | 95.41 | 0.0  | 0.0 |       |

| relative Inform. Technology |      |       |     |
|-----------------------------|------|-------|-----|
| olvi3*                      | 0.75 | 0.841 | 1.0 |
| cmu3*                       | 0.25 | 0.159 | 0.0 |

*standard and adapted*

LAB\*LABa 81.48  
LAB\*TCHa 87.5  
relative CIELAB lab

5 stufige Reihen für konstanten CIELAB Buntton  $272/360 = 0.755$  (rechts)

```
8 & MRS18input: cmy0* setcmykcolor
```

10 Bunttöneoutput: *no change* compared to input