

## Eingabe: Farbmatisches Reflexions-System ORS18

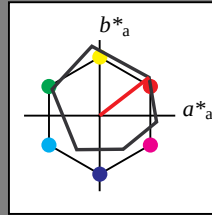
für Buntton  $h^* = lab^*h = 38/360 = 0.105$  $lab^*tch$  und  $lab^*nch$ 

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

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

## Ausgabe: Farbmatisches Reflexions-System NRS11

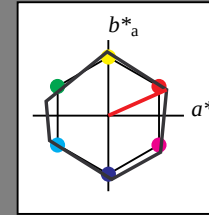
für Buntton  $h^* = lab^*h = 24/360 = 0.067$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton R

LCH\*Ma: 53 84 24

rgb\*Ma: 1.0 0.0 0.0

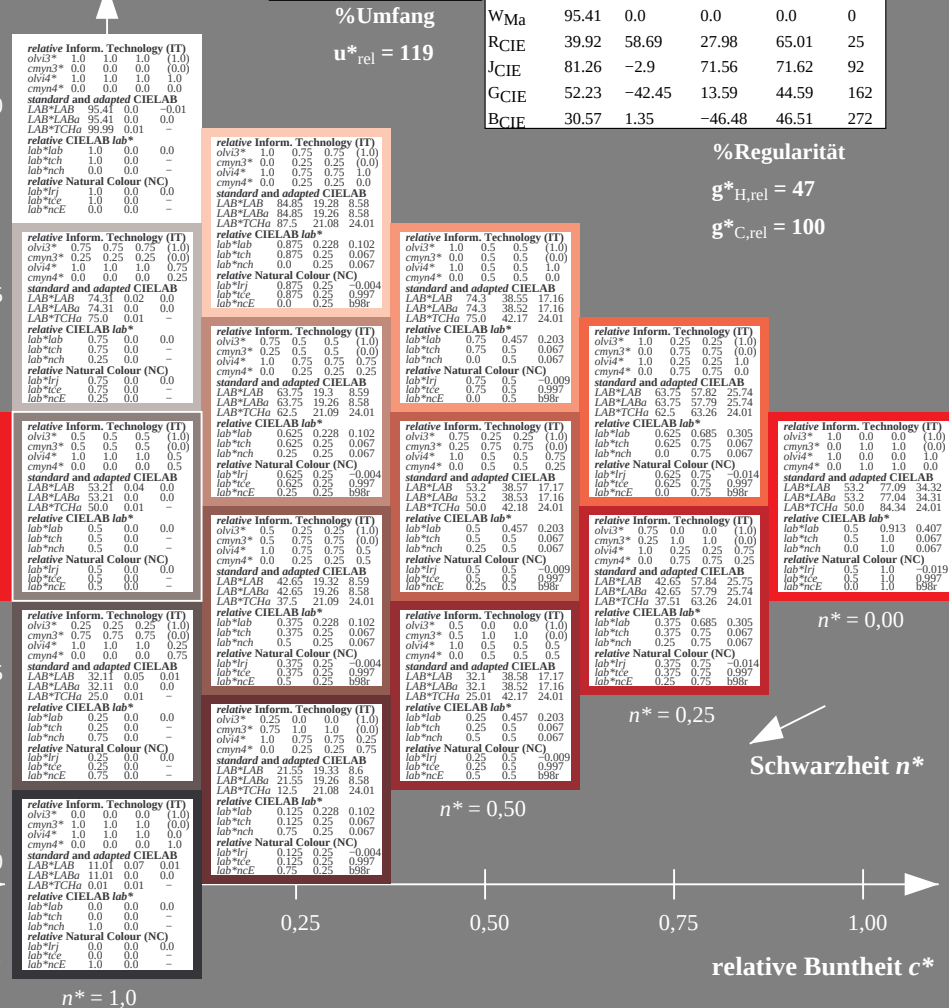
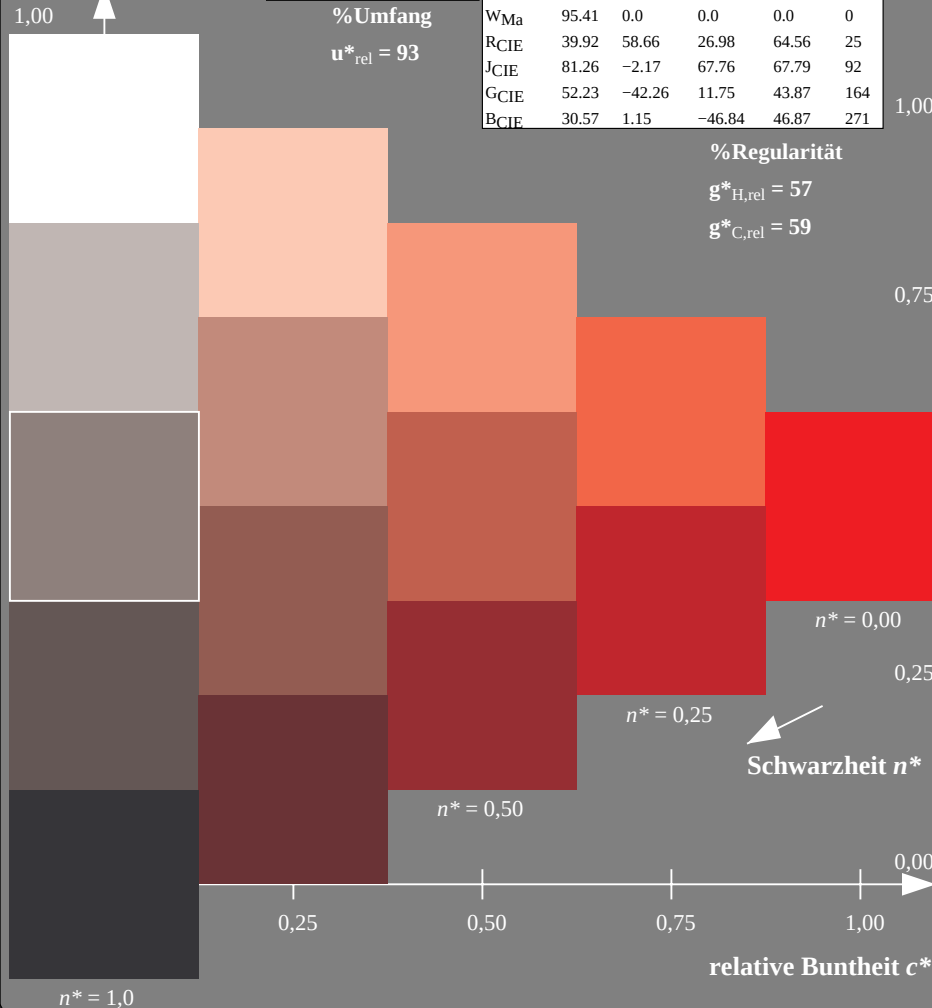
Dreiecks-Helligkeit



## NRS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

UG420-7, 5 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (links)

5 stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.067 (rechts)

BAM-Prüfvorlage UG42; Farbmatrik-Systeme ORS18 & ORS18input: *cmY0\* setcmykcolor*D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *Startup (S) data dependend*

## Eingabe: Farbmatisches Reflexions-System ORS18

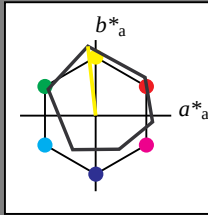
für Buntton  $h^* = lab^*h = 96/360 = 0.268$  $lab^*tch$  und  $lab^*nch$ 

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

relative Buntheit  $c^*$ 

## Ausgabe: Farbmatisches Reflexions-System NRS11

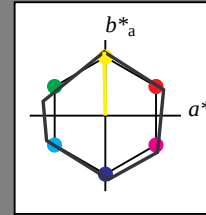
für Buntton  $h^* = lab^*h = 91/360 = 0.253$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton J

LCH\*Ma: 53 84 91

rgb\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit



%Umfang

 $u^*_{rel} = 119$ 

## NRS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

1,00

n\* = 0,00

0,25

n\* = 0,25

n\* = 0,50

relative Buntheit  $c^*$ 

UG420-7, 5 stufige Reihen für konstanten CIELAB Buntton 96/360 = 0.268 (links)

5 stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.253 (rechts)

BAM-Prüfvorlage UG42; Farbmatrik-Systeme ORS18 & ORS18input: `cmY0* setcmykcolor`D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: `Startup (S) data dependend`

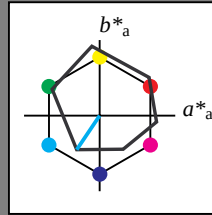


## Eingabe: Farbmatisches Reflexions-System ORS18

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



## 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

 $n^* = 0,25$  $n^* = 0,50$ Schwarzheit  $n^*$ 

0,00

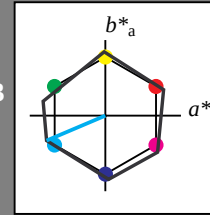
relative Buntheit  $c^*$ 

## Ausgabe: Farbmatisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 203/360 = 0.564$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton G50B  
LCH\*Ma: 53 84 203  
rgb\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit



%Umfang

 $u^*_{rel} = 119$ 

## NRS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

0,75

 $n^* = 0,00$ 

0,25

 $n^* = 0,25$ Schwarzheit  $n^*$ 

0,00

relative Buntheit  $c^*$ 

UG420-7, 5 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links)

5 stufige Reihen für konstanten CIELAB Buntton 203/360 = 0.564 (rechts)

BAM-Prüfvorlage UG42; Farbmatrik-Systeme ORS18 & ORS18input: *cmY0\* setcmykcolor*D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *Startup (S) data dependend*

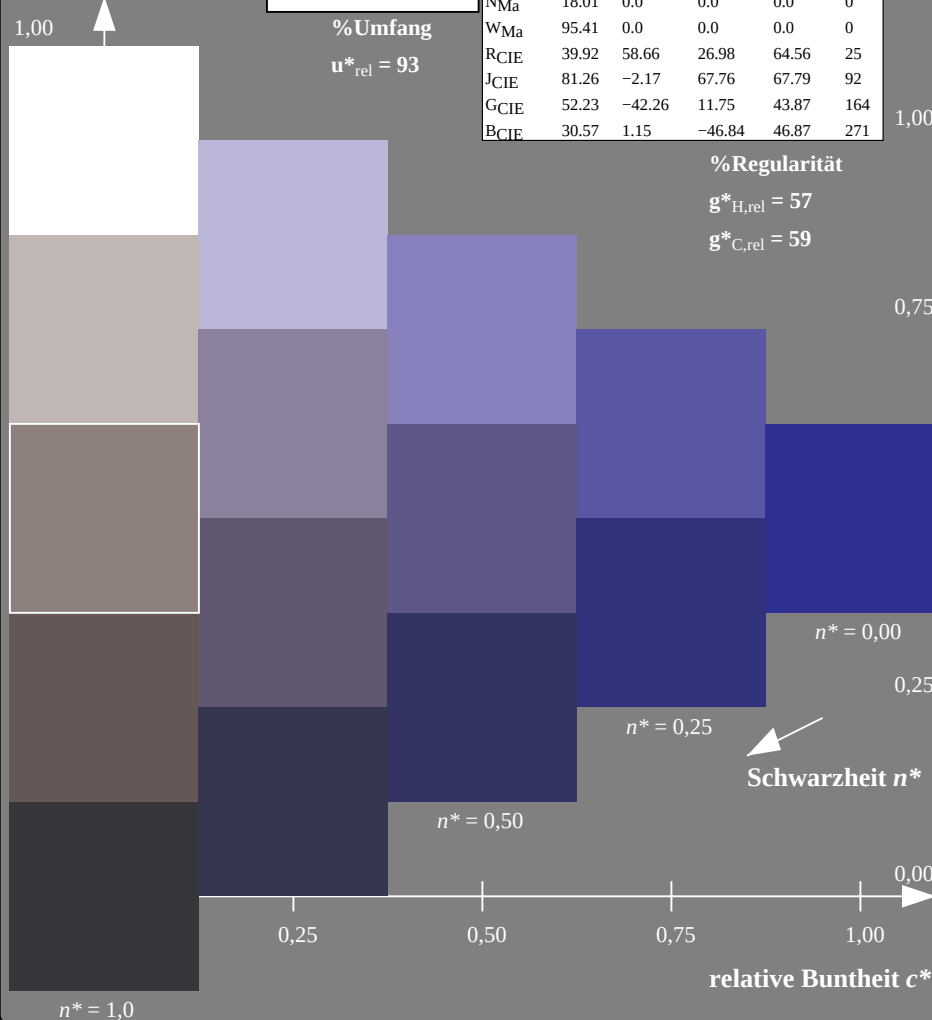


## Eingabe: Farbmatisches Reflexions-System ORS18

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



UG420-7, 5 stufige Reihen für konstanten CIE LAB Buntton 305/360 = 0.847 (links)

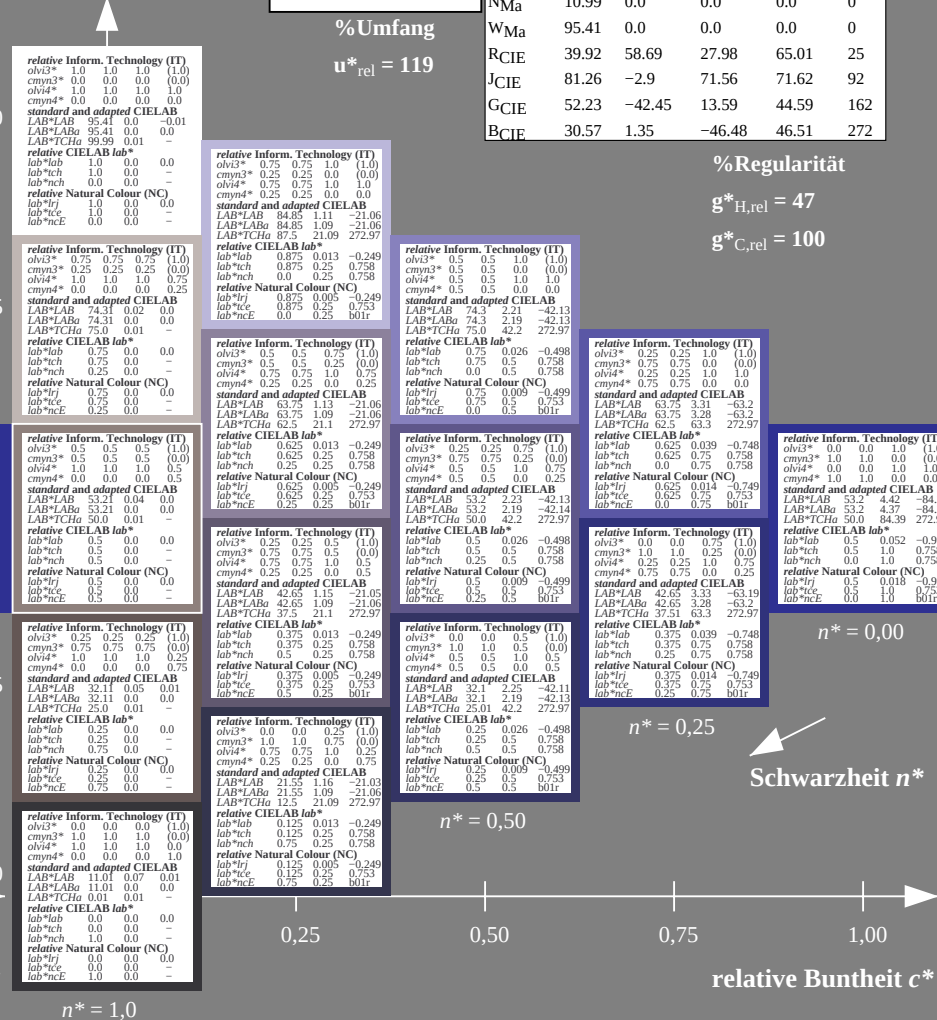
BAM-Prüfvorlage UG42; Farbmatrik-Systeme ORS18 & ORS18input: *cmY0\* setcmykcolor*D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *Startup (S) data dependend*

## Ausgabe: Farbmatisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 273/360 = 0.758$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton B  
LCH\*Ma: 53 84 273  
rgb\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit



5 stufige Reihen für konstanten CIE LAB Buntton 273/360 = 0.758 (rechts)

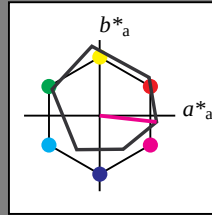
## Eingabe: Farbmatisches Reflexions-System ORS18

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

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 0.0 -0.01   |
| LAB*LABa                         | 95.41 0.0 0.0     |
| LAB*TCha                         | 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 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.0 0.0 (0.0)    |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 74.31 0.02 0.0       |
| LAB*LABa                         | 74.31 0.0 0.0        |
| LAB*TCha                         | 75.0 0.01 0.0        |
| relative CIELAB lab*             |                      |
| lab*lab                          | 0.75 0.0 0.0         |
| lab*tch                          | 0.75 0.0 0.0         |
| lab*nch                          | 0.25 0.0 0.0         |
| relative Natural Colour (NC)     |                      |
| lab*trj                          | 0.75 0.0 0.0         |
| lab*tce                          | 0.25 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                          | 53.21 0.04 0.0    |
| LAB*LABa                         | 53.21 0.0 0.0     |
| LAB*TCha                         | 50.0 0.01 0.0     |
| relative CIELAB lab*             |                   |
| lab*lab                          | 0.5 0.0 0.0       |
| lab*tch                          | 0.5 0.0 0.0       |
| lab*nch                          | 0.5 0.0 0.0       |
| relative Natural Colour (NC)     |                   |
| lab*trj                          | 0.5 0.0 0.0       |
| lab*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                          | 32.11 0.05 0.01      |
| LAB*LABa                         | 32.11 0.0 0.0        |
| LAB*TCha                         | 25.0 0.01 0.0        |
| relative CIELAB lab*             |                      |
| lab*lab                          | 0.25 0.0 0.0         |
| lab*tch                          | 0.25 0.0 0.0         |
| lab*nch                          | 0.75 0.0 0.0         |
| relative Natural Colour (NC)     |                      |
| lab*trj                          | 0.25 0.0 0.0         |
| lab*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 (1.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*TCha                         | 0.01 0.01 0.0     |
| relative CIELAB lab*             |                   |
| lab*lab                          | 0.0 0.0 0.0       |
| lab*tch                          | 0.0 0.0 0.0       |
| lab*nch                          | 1.0 0.0 0.0       |
| relative Natural Colour (NC)     |                   |
| lab*trj                          | 0.0 0.0 0.0       |
| lab*tce                          | 0.0 0.0 0.0       |
| lab*nce                          | 1.0 0.0 0.0       |

 $n^* = 1,0$ 

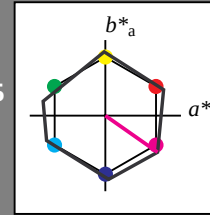
## Ausgabe: Farbmatisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 325/360 = 0.903$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton B50R  
LCH\*Ma: 53 84 325  
rgb\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit

1,00



%Umfang

 $u^*_{rel} = 119$ 

## NRS11; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 53.2          | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2          | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2          | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2          | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2          | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2          | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

|                                  |                    |
|----------------------------------|--------------------|
| relative Inform. Technology (IT) |                    |
| olvi3*                           | 1.0 0.75 1.0 (1.0) |
| cmyn3*                           | 0.0 0.25 0.0 (0.0) |
| olvi4*                           | 1.0 0.75 1.0 (1.0) |
| cmyn4*                           | 0.0 0.25 0.0 (0.0) |
| standard and adapted CIELAB      |                    |
| LAB*LAB                          | 84.85 17.28 -12.09 |
| LAB*LABa                         | 84.85 17.27 -12.09 |
| LAB*TCha                         | 87.5 21.08 324.98  |
| relative CIELAB lab*             |                    |
| lab*lab                          | 0.875 0.205 -0.142 |
| lab*tch                          | 0.875 0.25 0.903   |
| lab*nch                          | 0.0 0.25 0.903     |
| relative Natural Colour (NC)     |                    |
| lab*trj                          | 0.875 0.168 -0.184 |
| lab*tce                          | 0.875 0.25 0.867   |
| lab*nce                          | 0.0 0.25 0.867     |

|                                  |                     |
|----------------------------------|---------------------|
| relative Inform. Technology (IT) |                     |
| olvi3*                           | 0.75 0.5 0.75 (1.0) |
| cmyn3*                           | 0.25 0.5 0.25 (0.0) |
| olvi4*                           | 1.0 0.75 1.0 (1.0)  |
| cmyn4*                           | 0.0 0.25 0.0 (0.0)  |
| standard and adapted CIELAB      |                     |
| LAB*LAB                          | 63.75 17.31 -12.09  |
| LAB*LABa                         | 63.75 17.27 -12.1   |
| LAB*TCha                         | 62.5 21.09 324.98   |
| relative CIELAB lab*             |                     |
| lab*lab                          | 0.625 0.205 -0.142  |
| lab*tch                          | 0.625 0.25 0.903    |
| lab*nch                          | 0.25 0.25 0.903     |
| relative Natural Colour (NC)     |                     |
| lab*trj                          | 0.625 0.168 -0.184  |
| lab*tce                          | 0.625 0.25 0.867    |
| lab*nce                          | 0.25 0.25 0.867     |

|                                  |                    |
|----------------------------------|--------------------|
| 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 0.75 1.0 (1.0) |
| cmyn4*                           | 0.0 0.25 0.0 (0.0) |
| standard and adapted CIELAB      |                    |
| LAB*LAB                          | 42.65 17.32 -12.08 |
| LAB*LABa                         | 42.65 17.27 -12.1  |
| LAB*TCha                         | 37.5 21.09 324.98  |
| relative CIELAB lab*             |                    |
| lab*lab                          | 0.375 0.205 -0.142 |
| lab*tch                          | 0.375 0.25 0.903   |
| lab*nch                          | 0.5 0.25 0.903     |
| relative Natural Colour (NC)     |                    |
| lab*trj                          | 0.375 0.168 -0.184 |
| lab*tce                          | 0.375 0.25 0.867   |
| lab*nce                          | 0.5 0.25 0.867     |

|                                  |                     |
|----------------------------------|---------------------|
| relative Inform. Technology (IT) |                     |
| olvi3*                           | 0.25 0.5 0.25 (1.0) |
| cmyn3*                           | 0.75 1.0 0.75 (0.0) |
| olvi4*                           | 1.0 0.75 1.0 (1.0)  |
| cmyn4*                           | 0.0 0.25 0.0 (0.0)  |
| standard and adapted CIELAB      |                     |
| LAB*LAB                          | 21.55 17.27 -12.09  |
| LAB*LABa                         | 21.55 17.27 -12.09  |
| LAB*TCha                         | 12.5 21.08 324.98   |
| relative CIELAB lab*             |                     |
| lab*lab                          | 0.125 0.205 -0.142  |
| lab*tch                          | 0.125 0.25 0.903    |
| lab*nch                          | 0.75 0.25 0.903     |
| relative Natural Colour (NC)     |                     |
| lab*trj                          | 0.125 0.168 -0.184  |
| lab*tce                          | 0.125 0.25 0.867    |
| lab*nce                          | 0.75 0.25 0.867     |

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olvi3*                           | 0.0 0.0 0.0 (1.0) |
| cmyn3*                           | 1.0 1.0 1.0 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (1.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*TCha                         | 0.01 0.01 0.0     |
| relative CIELAB lab*             |                   |
| lab*lab                          | 0.0 0.0 0.0       |
| lab*tch                          | 0.0 0.0 0.0       |
| lab*nch                          | 1.0 0.0 0.0       |
| relative Natural Colour (NC)     |                   |
| lab*trj                          | 0.0 0.0 0.0       |
| lab*tce                          | 0.0 0.0 0.0       |
| lab*nce                          | 1.0 0.0 0.0       |

 $n^* = 1,0$ 

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olvi3*                           | 1.0 0.5 1.0 (1.0) |
| cmyn3*                           | 0.0 0.5 0.0 (0.0) |
| olvi4*                           | 1.0 0.5 1.0 (1.0) |
| cmyn4*                           | 0.0 0.5 0.0 (0.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 74.3 34.57 -24.19 |
| LAB*LABa                         | 74.3 34.54 -24.2  |
| LAB*TCha                         | 75.0 42.18 324.98 |
| relative CIELAB lab*             |                   |
| lab*lab                          | 0.75 0.409 -0.286 |
| lab*tch                          | 0.75 0.5 0.903    |
| lab*nch                          | 0.0 0.5 0.903     |
| relative Natural Colour (NC)     |                   |
| lab*trj                          | 0.75 0.336 -0.37  |
| lab*tce                          | 0.75 0.5 0.867    |
| lab*nce                          | 0.0 0.5 0.867     |

|                                  |                      |
|----------------------------------|----------------------|
| relative Inform. Technology (IT) |                      |
| olvi3*                           | 0.75 0.25 0.75 (1.0) |
| cmyn3*                           | 0.25 0.75 0.25 (0.0) |
| olvi4*                           | 1.0 0.5 1.0 (1.0)    |
| cmyn4*                           | 0.0 0.25 0.0 (0.0)   |
| standard and adapted CIELAB      |                      |
| LAB*LAB                          | 53.2 34.59 -24.19    |
| LAB*LABa                         | 53.2 34.55 -24.2     |
| LAB*TCha                         | 50.0 42.19 324.98    |
| relative CIELAB lab*             |                      |
| lab*lab                          | 0.625 0.409 -0.286   |
| lab*tch                          | 0.625 0.5 0.903      |
| lab*nch                          | 0.25 0.5 0.903       |
| relative Natural Colour (NC)     |                      |
| lab*trj                          | 0.625 0.336 -0.37    |
| lab*tce                          | 0.625 0.5 0.867      |
| lab*nce                          | 0.25 0.5 0.867       |

|                                  |                    |
|----------------------------------|--------------------|
| 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 0.75 1.0 (1.0) |
| cmyn4*                           | 0.0 0.25 0.0 (0.0) |
| standard and adapted CIELAB      |                    |
| LAB*LAB                          | 32.1 34.6 24.18    |
| LAB*LABa                         | 32.1 34.54 -24.2   |
| LAB*TCha                         | 25.01 42.18 324.98 |
| relative CIELAB lab*             |                    |
| lab*lab                          | 0.375 0.409 -0.286 |
| lab*tch                          | 0.375 0.5 0.903    |
| lab*nch                          | 0.5 0.5 0.903      |
| relative Natural Colour (NC)     |                    |
| lab*trj                          | 0.375 0.336 -0.37  |
| lab*tce                          | 0.375 0.5 0.867    |
| lab*nce                          | 0.5 0.5 0.867      |

|                                  |                     |
|----------------------------------|---------------------|
| relative Inform. Technology (IT) |                     |
| olvi3*                           | 0.25 0.5 0.25 (1.0) |
| cmyn3*                           | 0.75 1.0 0.75 (0.0) |
| olvi4*                           | 1.0 0.75 1.0 (1.0)  |
| cmyn4*                           | 0.0 0.25 0.0 (0.0)  |
| standard and adapted CIELAB      |                     |
| LAB*LAB                          | 21.55 17.27 -12.09  |
| LAB*LABa                         | 21.55 17.27 -12.09  |
| LAB*TCha                         | 12.5 21.08 324.98   |
| relative CIELAB lab*             |                     |
| lab*lab                          | 0.125 0.409 -0.286  |
| lab*tch                          | 0.125 0.5 0.903     |
| lab*nch                          | 0.75 0.5 0.903      |
| relative Natural Colour (NC)     |                     |
| lab*trj                          | 0.125 0.336 -0.37   |
| lab*tce                          | 0.125 0.5 0.867     |
| lab*nce                          | 0.75 0.5 0.867      |

|                                  |                   |
|----------------------------------|-------------------|
| relative Inform. Technology (IT) |                   |
| olvi3*                           | 0.0 0.0 0.0 (1.0) |
| cmyn3*                           | 1.0 1.0 1.0 (0.0) |
| olvi4*                           | 1.0 1.0 1.0 (1.0) |
| cmyn4*                           | 0.0 0.0 0.0 (1.0) |
| standard and adapted CIELAB      |                   |
| LAB*LAB                          | 11.01 0.07 0.01   |
| LAB*LABa                         | 11.01 0.0 0.0     |
| LAB*TCha                         | 0.01 0.01 0.0     |
| relative CIELAB lab*             |                   |
| lab*lab                          | 0.0 0.0 0.0       |
| lab*tch                          | 0.0 0.0 0.0       |
| lab*nch                          | 1.0 0.0 0.0       |
| relative Natural Colour (NC)     |                   |
| lab*trj                          | 0.0 0.0 0.0       |
| lab*tce                          | 0.0 0.0 0.0       |
| lab*nce                          | 1.0 0.0 0.0       |

 $n^* = 1,0$ 

|                                  |                     |
|----------------------------------|---------------------|
| relative Inform. Technology (IT) |                     |
| olvi3*                           | 0.75 0.0 0.75 (1.0) |
| cmyn3*                           | 0.0 0.75 0.0 (0.0)  |
| olvi4*                           | 1.0 0.25 1.0 (1.0)  |
| cmyn4*                           | 0.0 0.75 0.0 (0.0)  |
| standard and adapted CIELAB      |                     |
| LAB*LAB                          | 63.75 51.85 -36.29  |
| LAB*LABa                         | 63.75 51.81 -36.3   |
| LAB*TCha                         | 62.5 63.27 324.98   |
| relative CIELAB lab*             |                     |
| lab*lab                          | 0.625 0.614 -0.429  |
| lab*tch                          | 0.625 0.75 0.903    |
| lab*nch                          | 0.0 0.75 0.903      |
| relative Natural Colour (NC)     |                     |
| lab*trj                          | 0.625 0.503 -0.555  |
| lab*tce                          | 0.625 0.75 0.867    |
| lab*nce                          | 0.0 0.75 0.867      |

|                                  |                    |
|----------------------------------|--------------------|
| 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 0.75 1.0 (1.0) |
| cmyn4*                           | 0.0 0.25 0.0 (0.0) |
| standard and adapted CIELAB      |                    |
| LAB*LAB                          | 53.2 69.12 -48.39  |
| LAB*LABa                         | 53.2 69.08 -48.4   |
| LAB*TCha                         | 50.0 84.35 324.98  |
| relative CIELAB lab*             |                    |
| lab*lab                          | 0.5 0.819 -0.573   |
| lab*tch                          | 0.5 0.75 0.903     |
| lab*nch                          | 0.0 0.75 0.903     |
| relative Natural Colour (NC)     |                    |
| lab*trj                          | 0.5 0.671 -0.74    |
| lab*tce                          | 0.5 0.75 0.867     |
| lab*nce                          | 0.0 0.75 0.867     |

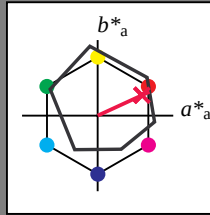
|                                  |                     |
|----------------------------------|---------------------|
| relative Inform. Technology (IT) |                     |
| olvi3*                           | 0.25 0.5 0.25 (1.0) |
| cmyn3*                           | 0.75 1.0 0.75 (0.0) |
| olvi4*                           | 1.0 0.75 1.0 (1.0)  |
| cmyn4*                           | 0.0 0.25 0.0 (0.0)  |
| standard and adapted CIELAB      |                     |
| LAB*LAB                          | 21.55 17.27 -12.09  |
| LAB*LABa                         | 21.55 17.27 -12.09  |
| LAB*TCha                         | 12.5 21.08 324.98   |
| relative CIELAB lab*             |                     |
| lab*lab                          | 0.125 0.409 -0.286  |
| lab*tch                          | 0.125 0.5 0.903     |
| lab*nch                          | 0.75 0.5 0.903      |
| relative Natural Colour (NC)     |                     |
| lab*trj                          | 0.125 0.33          |

## 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

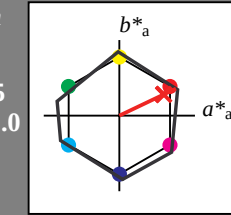
 $g^*_{H,rel} = 57$  $g^*_{C,rel} = 59$ 

## Ausgabe: Farbmatisches Reflexions-System NRS11

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

D65: Buntton R  
LCH\*Ma: 53 83 25  
rgb\*Ma: 1.0 0.03 0.0

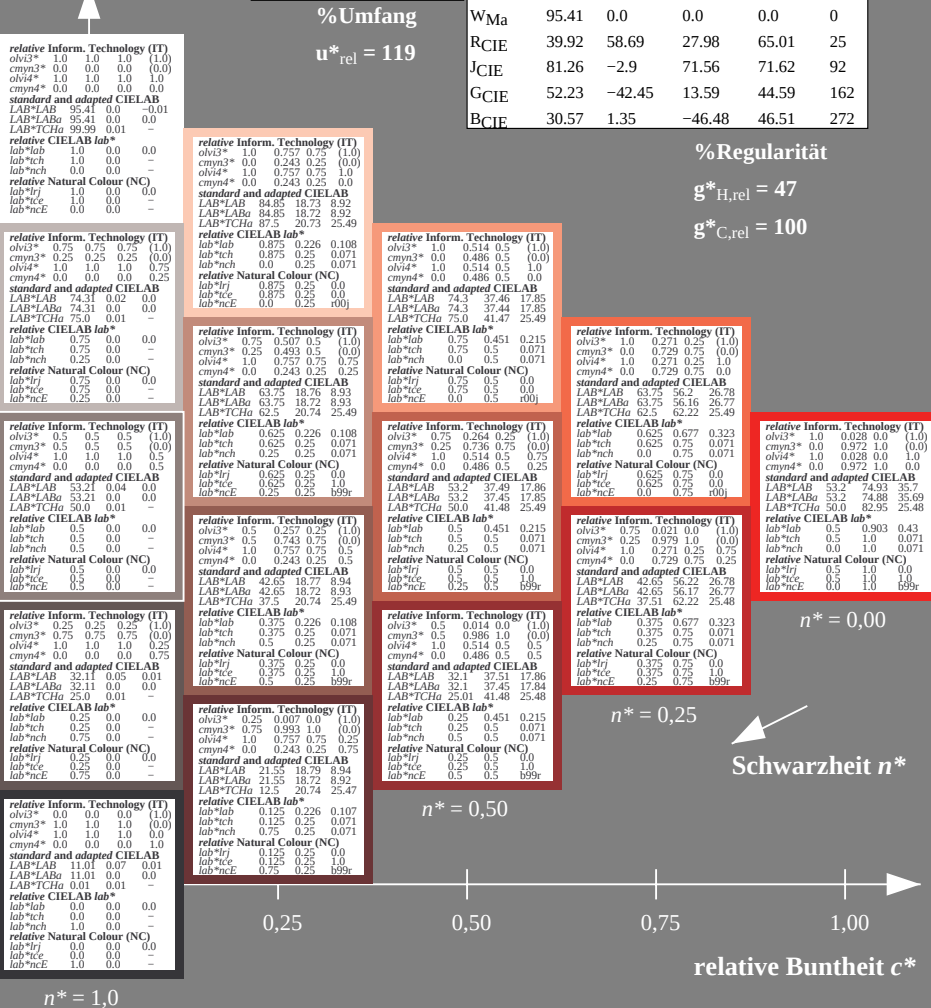
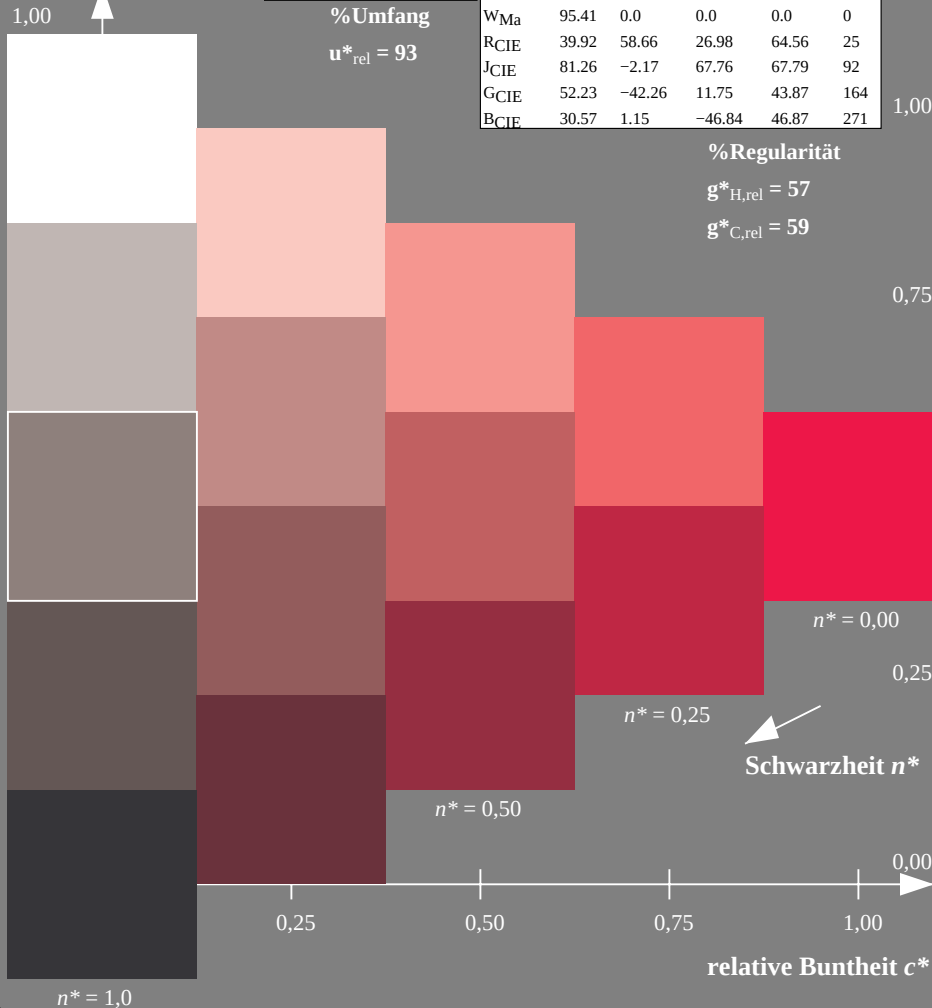
Dreiecks-Helligkeit



## NRS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

UG420-7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)

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

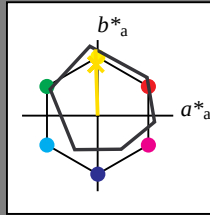
BAM-Prüfvorlage UG42; Farbmatrik-Systeme ORS18 & ORS18input: *cmY0\* setcmykcolor*D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *Startup (S) data dependend*

## Eingabe: Farbmatisches 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

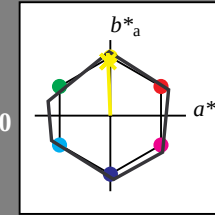
| relative Inform. Technology (IT) | $lab^*lab$ | $lab^*tch$ | $lab^*nch$ |
|----------------------------------|------------|------------|------------|
| olvi3*                           | 1.0        | 1.0        | 1.0        |
| olvi4*                           | 0.0        | 0.0        | 0.0        |
| olvi5*                           | 0.0        | 0.0        | 0.0        |
| olvi6*                           | 0.0        | 0.0        | 0.0        |
| olvi7*                           | 0.0        | 0.0        | 0.0        |
| olvi8*                           | 0.0        | 0.0        | 0.0        |
| olvi9*                           | 0.0        | 0.0        | 0.0        |
| olvi10*                          | 0.0        | 0.0        | 0.0        |
| olvi11*                          | 0.0        | 0.0        | 0.0        |
| olvi12*                          | 0.0        | 0.0        | 0.0        |
| olvi13*                          | 0.0        | 0.0        | 0.0        |
| olvi14*                          | 0.0        | 0.0        | 0.0        |
| olvi15*                          | 0.0        | 0.0        | 0.0        |
| olvi16*                          | 0.0        | 0.0        | 0.0        |
| olvi17*                          | 0.0        | 0.0        | 0.0        |
| olvi18*                          | 0.0        | 0.0        | 0.0        |
| olvi19*                          | 0.0        | 0.0        | 0.0        |
| olvi20*                          | 0.0        | 0.0        | 0.0        |
| olvi21*                          | 0.0        | 0.0        | 0.0        |
| olvi22*                          | 0.0        | 0.0        | 0.0        |
| olvi23*                          | 0.0        | 0.0        | 0.0        |
| olvi24*                          | 0.0        | 0.0        | 0.0        |
| olvi25*                          | 0.0        | 0.0        | 0.0        |
| olvi26*                          | 0.0        | 0.0        | 0.0        |
| olvi27*                          | 0.0        | 0.0        | 0.0        |
| olvi28*                          | 0.0        | 0.0        | 0.0        |
| olvi29*                          | 0.0        | 0.0        | 0.0        |
| olvi30*                          | 0.0        | 0.0        | 0.0        |
| olvi31*                          | 0.0        | 0.0        | 0.0        |
| olvi32*                          | 0.0        | 0.0        | 0.0        |
| olvi33*                          | 0.0        | 0.0        | 0.0        |
| olvi34*                          | 0.0        | 0.0        | 0.0        |
| olvi35*                          | 0.0        | 0.0        | 0.0        |
| olvi36*                          | 0.0        | 0.0        | 0.0        |
| olvi37*                          | 0.0        | 0.0        | 0.0        |
| olvi38*                          | 0.0        | 0.0        | 0.0        |
| olvi39*                          | 0.0        | 0.0        | 0.0        |
| olvi40*                          | 0.0        | 0.0        | 0.0        |
| olvi41*                          | 0.0        | 0.0        | 0.0        |
| olvi42*                          | 0.0        | 0.0        | 0.0        |
| olvi43*                          | 0.0        | 0.0        | 0.0        |
| olvi44*                          | 0.0        | 0.0        | 0.0        |
| olvi45*                          | 0.0        | 0.0        | 0.0        |
| olvi46*                          | 0.0        | 0.0        | 0.0        |
| olvi47*                          | 0.0        | 0.0        | 0.0        |
| olvi48*                          | 0.0        | 0.0        | 0.0        |
| olvi49*                          | 0.0        | 0.0        | 0.0        |
| olvi50*                          | 0.0        | 0.0        | 0.0        |
| olvi51*                          | 0.0        | 0.0        | 0.0        |
| olvi52*                          | 0.0        | 0.0        | 0.0        |
| olvi53*                          | 0.0        | 0.0        | 0.0        |
| olvi54*                          | 0.0        | 0.0        | 0.0        |
| olvi55*                          | 0.0        | 0.0        | 0.0        |
| olvi56*                          | 0.0        | 0.0        | 0.0        |
| olvi57*                          | 0.0        | 0.0        | 0.0        |
| olvi58*                          | 0.0        | 0.0        | 0.0        |
| olvi59*                          | 0.0        | 0.0        | 0.0        |
| olvi60*                          | 0.0        | 0.0        | 0.0        |
| olvi61*                          | 0.0        | 0.0        | 0.0        |
| olvi62*                          | 0.0        | 0.0        | 0.0        |
| olvi63*                          | 0.0        | 0.0        | 0.0        |
| olvi64*                          | 0.0        | 0.0        | 0.0        |
| olvi65*                          | 0.0        | 0.0        | 0.0        |
| olvi66*                          | 0.0        | 0.0        | 0.0        |
| olvi67*                          | 0.0        | 0.0        | 0.0        |
| olvi68*                          | 0.0        | 0.0        | 0.0        |
| olvi69*                          | 0.0        | 0.0        | 0.0        |
| olvi70*                          | 0.0        | 0.0        | 0.0        |
| olvi71*                          | 0.0        | 0.0        | 0.0        |
| olvi72*                          | 0.0        | 0.0        | 0.0        |
| olvi73*                          | 0.0        | 0.0        | 0.0        |
| olvi74*                          | 0.0        | 0.0        | 0.0        |
| olvi75*                          | 0.0        | 0.0        | 0.0        |
| olvi76*                          | 0.0        | 0.0        | 0.0        |
| olvi77*                          | 0.0        | 0.0        | 0.0        |
| olvi78*                          | 0.0        | 0.0        | 0.0        |
| olvi79*                          | 0.0        | 0.0        | 0.0        |
| olvi80*                          | 0.0        | 0.0        | 0.0        |
| olvi81*                          | 0.0        | 0.0        | 0.0        |
| olvi82*                          | 0.0        | 0.0        | 0.0        |
| olvi83*                          | 0.0        | 0.0        | 0.0        |
| olvi84*                          | 0.0        | 0.0        | 0.0        |
| olvi85*                          | 0.0        | 0.0        | 0.0        |
| olvi86*                          | 0.0        | 0.0        | 0.0        |
| olvi87*                          | 0.0        | 0.0        | 0.0        |
| olvi88*                          | 0.0        | 0.0        | 0.0        |
| olvi89*                          | 0.0        | 0.0        | 0.0        |
| olvi90*                          | 0.0        | 0.0        | 0.0        |
| olvi91*                          | 0.0        | 0.0        | 0.0        |
| olvi92*                          | 0.0        | 0.0        | 0.0        |
| olvi93*                          | 0.0        | 0.0        | 0.0        |
| olvi94*                          | 0.0        | 0.0        | 0.0        |
| olvi95*                          | 0.0        | 0.0        | 0.0        |
| olvi96*                          | 0.0        | 0.0        | 0.0        |
| olvi97*                          | 0.0        | 0.0        | 0.0        |
| olvi98*                          | 0.0        | 0.0        | 0.0        |
| olvi99*                          | 0.0        | 0.0        | 0.0        |
| olvi100*                         | 0.0        | 0.0        | 0.0        |

## Ausgabe: Farbmatisches Reflexions-System NRS11

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

D65: Buntton J  
LCH\*Ma: 53 83 92  
rgb\*Ma: 0.98 1.0 0.0

Dreiecks-Helligkeit



%Umfang

 $u^*_{rel} = 119$ 

## NRS11; adaptierte CIELAB-Daten

|        | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa    | 53.2          | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2          | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2          | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2          | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2          | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2          | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

| relative Inform. Technology (IT) | $lab^*lab$ | $lab^*tch$ | $lab^*nch$ |
|----------------------------------|------------|------------|------------|
| olvi3*                           | 1.0        | 1.0        | 1.0        |
| olvi4*                           | 0.0        | 0.0        | 0.0        |
| olvi5*                           | 0.0        | 0.0        | 0.0        |
| olvi6*                           | 0.0        | 0.0        | 0.0        |
| olvi7*                           | 0.0        | 0.0        | 0.0        |
| olvi8*                           | 0.0        | 0.0        | 0.0        |
| olvi9*                           | 0.0        | 0.0        | 0.0        |
| olvi10*                          | 0.0        | 0.0        | 0.0        |
| olvi11*                          | 0.0        | 0.0        | 0.0        |
| olvi12*                          | 0.0        | 0.0        | 0.0        |
| olvi13*                          | 0.0        | 0.0        | 0.0        |
| olvi14*                          | 0.0        | 0.0        | 0.0        |
| olvi15*                          | 0.0        | 0.0        | 0.0        |
| olvi16*                          | 0.0        | 0.0        | 0.0        |
| olvi17*                          | 0.0        | 0.0        | 0.0        |
| olvi18*                          | 0.0        | 0.0        | 0.0        |
| olvi19*                          | 0.0        | 0.0        | 0.0        |
| olvi20*                          | 0.0        | 0.0        | 0.0        |
| olvi21*                          | 0.0        | 0.0        | 0.0        |
| olvi22*                          | 0.0        | 0.0        | 0.0        |
| olvi23*                          | 0.0        | 0.0        | 0.0        |
| olvi24*                          | 0.0        | 0.0        | 0.0        |
| olvi25*                          | 0.0        | 0.0        | 0.0        |
| olvi26*                          | 0.0        | 0.0        | 0.0        |
| olvi27*                          | 0.0        | 0.0        | 0.0        |
| olvi28*                          | 0.0        | 0.0        | 0.0        |
| olvi29*                          | 0.0        | 0.0        | 0.0        |
| olvi30*                          | 0.0        | 0.0        | 0.0        |
| olvi31*                          | 0.0        | 0.0        | 0.0        |
| olvi32*                          | 0.0        | 0.0        | 0.0        |
| olvi33*                          | 0.0        | 0.0        | 0.0        |
| olvi34*                          | 0.0        | 0.0        | 0.0        |
| olvi35*                          | 0.0        | 0.0        | 0.0        |
| olvi36*                          | 0.0        | 0.0        | 0.0        |
| olvi37*                          | 0.0        | 0.0        | 0.0        |
| olvi38*                          | 0.0        | 0.0        | 0.0        |
| olvi39*                          | 0.0        | 0.0        | 0.0        |
| olvi40*                          | 0.0        | 0.0        | 0.0        |
| olvi41*                          | 0.0        | 0.0        | 0.0        |
| olvi42*                          | 0.0        | 0.0        | 0.0        |
| olvi43*                          | 0.0        | 0.0        | 0.0        |
| olvi44*                          | 0.0        | 0.0        | 0.0        |
| olvi45*                          | 0.0        | 0.0        | 0.0        |
| olvi46*                          | 0.0        | 0.0        | 0.0        |
| olvi47*                          | 0.0        | 0.0        | 0.0        |
| olvi48*                          | 0.0        | 0.0        | 0.0        |
| olvi49*                          | 0.0        | 0.0        | 0.0        |
| olvi50*                          | 0.0        | 0.0        | 0.0        |
| olvi51*                          | 0.0        | 0.0        | 0.0        |
| olvi52*                          | 0.0        | 0.0        | 0.0        |
| olvi53*                          | 0.0        | 0.0        | 0.0        |
| olvi54*                          | 0.0        | 0.0        | 0.0        |
| olvi55*                          | 0.0        | 0.0        | 0.0        |
| olvi56*                          | 0.0        | 0.0        | 0.0        |
| olvi57*                          | 0.0        | 0.0        | 0.0        |
| olvi58*                          | 0.0        | 0.0        | 0.0        |
| olvi59*                          | 0.0        | 0.0        | 0.0        |
| olvi60*                          | 0.0        | 0.0        | 0.0        |
| olvi61*                          | 0.0        | 0.0        | 0.0        |
| olvi62*                          | 0.0        | 0.0        | 0.0        |
| olvi63*                          | 0.0        | 0.0        | 0.0        |
| olvi64*                          | 0.0        | 0.0        | 0.0        |
| olvi65*                          | 0.0        | 0.0        | 0.0        |
| olvi66*                          | 0.0        | 0.0        | 0.0        |
| olvi67*                          | 0.0        | 0.0        | 0.0        |
| olvi68*                          | 0.0        | 0.0        | 0.0        |
| olvi69*                          | 0.0        | 0.0        | 0.0        |
| olvi70*                          | 0.0        | 0.0        | 0.0        |
| olvi71*                          | 0.0        | 0.0        | 0.0        |
| olvi72*                          | 0.0        | 0.0        | 0.0        |
| olvi73*                          | 0.0        | 0.0        | 0.0        |
| olvi74*                          | 0.0        | 0.0        | 0.0        |
| olvi75*                          | 0.0        | 0.0        | 0.0        |
| olvi76*                          | 0.0        | 0.0        | 0.0        |
| olvi77*                          | 0.0        | 0.0        | 0.0        |
| olvi78*                          | 0.0        | 0.0        | 0.0        |
| olvi79*                          | 0.0        | 0.0        | 0.0        |
| olvi80*                          | 0.0        | 0.0        | 0.0        |
| olvi81*                          | 0.0        | 0.0        | 0.0        |
| olvi82*                          | 0.0        | 0.0        | 0.0        |
| olvi83*                          | 0.0        | 0.0        | 0.0        |
| olvi84*                          | 0.0        | 0.0        | 0.0        |
| olvi85*                          | 0.0        | 0.0        | 0.0        |
| olvi86*                          | 0.0        | 0.0        | 0.0        |
| olvi87*                          | 0.0        | 0.0        | 0.0        |
| olvi88*                          | 0.0        | 0.0        | 0.0        |
| olvi89*                          | 0.0        | 0.0        | 0.0        |
| olvi90*                          | 0.0        | 0.0        | 0.0        |
| olvi91*                          | 0.0        | 0.0        | 0.0        |
| olvi92*                          | 0.0        | 0.0        | 0.0        |
| olvi93*                          | 0.0        | 0.0        | 0.0        |
| olvi94*                          | 0.0        | 0.0        | 0.0        |
| olvi95*                          | 0.0        | 0.0        | 0.0        |
| olvi96*                          | 0.0        | 0.0        | 0.0        |
| olvi97*                          | 0.0        | 0.0        | 0.0        |
| olvi98*                          | 0.0        | 0.0        | 0.0        |
| olvi99*                          | 0.0        | 0.0        | 0.0        |
| olvi100*                         | 0.0        | 0.0        | 0.0        |

| relative Inform. Technology (IT) | $lab^*lab$ | $lab^*tch$ | $lab^*nch$ |
|----------------------------------|------------|------------|------------|
| olvi3*                           | 0.75       | 0.75       | 0.75       |
| olvi4*                           | 0.25       | 0.25       | 0.25       |
| olvi5*                           | 0.0        | 0.0        | 0.0        |
| olvi6*                           | 0.0        | 0.0        | 0.0        |
| olvi7*                           | 0.0        | 0.0        | 0.0        |
| olvi8*                           | 0.0        | 0.0        | 0.0        |
| olvi9*                           | 0.0        | 0.0        | 0.0        |
| olvi10*                          | 0.0        | 0.0        | 0.0        |
| olvi11*                          | 0.0        | 0.0        | 0.0        |
| olvi12*                          | 0.0        | 0.0        | 0.0        |
| olvi13*                          | 0.0        | 0.0        | 0.0        |
| olvi14*                          | 0.0        | 0.0        | 0.0        |
| olvi15*                          | 0.0        | 0.0        | 0.0        |
| olvi16*                          | 0.0        | 0.0        | 0.0        |
| olvi17*                          | 0.0        | 0.0        | 0.0        |
| olvi18*                          | 0.0        | 0.0        | 0.0        |
| olvi19*                          | 0.0        | 0.0        | 0.0        |
| olvi20*                          | 0.0        | 0.0        | 0.0        |
| olvi21*                          | 0.0        | 0.0        | 0.0        |
| olvi22*                          | 0.0        | 0.0        | 0.0        |
| olvi23*                          | 0.0        | 0.0        | 0.0        |
| olvi24*                          | 0.0        | 0.0        | 0.0        |
| olvi25*                          | 0.0        | 0.0        | 0.0        |
| olvi26*                          | 0.0        | 0.0        | 0.0        |
| olvi27*                          | 0.0        | 0.0        | 0.0        |
| olvi28*                          | 0.0        | 0.0        | 0.0        |
| olvi29*                          | 0.0        | 0.0        | 0.0        |
| olvi30*                          | 0.0        | 0.0        | 0.0        |
| olvi31*                          | 0.0        | 0.0        | 0.0        |
| olvi32*                          | 0.0        | 0.0        | 0.0        |
| olvi33*                          | 0.0        | 0.0        | 0.0        |
| olvi34*                          | 0.0        | 0.0        | 0.0        |
| olvi35*                          | 0.0        | 0.0        | 0.0        |
| olvi36*                          | 0.0        | 0.0        | 0.0        |
| olvi37*                          | 0.0        | 0.0        | 0.0        |
| olvi38*                          | 0.0        | 0.0        | 0.0        |
| olvi39*                          | 0.0        | 0.0        | 0.0        |
| olvi40*                          | 0.0        | 0.0        | 0.0        |
| olvi41*                          | 0.0        | 0.0        | 0.0        |
| olvi42*                          | 0.0        | 0.0        | 0.0        |
| olvi43*                          | 0.0        | 0.0        | 0.0        |
| olvi44*                          | 0.0        | 0.0        | 0.0        |
| olvi45*                          | 0.0        | 0.0        | 0.0        |
| olvi46*                          | 0.0        | 0.0        | 0.0        |
| olvi47*                          | 0.0        | 0.0        | 0.0        |
| olvi48*                          | 0.0        | 0.0        | 0.0        |
| olvi49*                          | 0.0        | 0.0        | 0.0        |
| olvi50*                          | 0.0        | 0.0        | 0.0        |
| olvi51*                          | 0.0        | 0.0        | 0.0        |
| olvi52*                          | 0.0        | 0.0        | 0.0        |
| olvi53*                          | 0.0        | 0.0        | 0.0        |
| olvi54*                          | 0.0        | 0.0        | 0.0        |
| olvi55*                          | 0.0        | 0.0        | 0.0        |
| olvi56*                          | 0.0        | 0.0        | 0.0        |
| olvi57*                          | 0.0        | 0.0        | 0.0        |
| olvi58*                          | 0.0        | 0.0        |            |



## Eingabe: Farbmatisches Reflexions-System ORS18

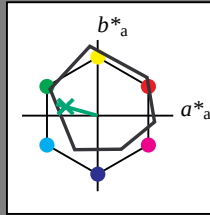
für Buntton  $h^* = lab^*h = 164/360 = 0.457$  $lab^*tch$  und  $lab^*nch$ 

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

0,75

 $n^* = 0,00$ 

0,25

 $n^* = 0,25$  $n^* = 0,50$ Schwarzheit  $n^*$ relative Buntheit  $c^*$ 

## Ausgabe: Farbmatisches Reflexions-System NRS11

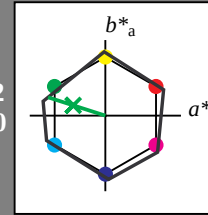
für Buntton  $h^* = lab^*h = 162/360 = 0.451$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton G

LCH\*Ma: 53 80 162

rgb\*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit



%Umfang

 $u^*_{rel} = 119$ 

## NRS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

1,00

0,75

 $n^* = 0,00$ 

0,25

 $n^* = 0,25$  $n^* = 0,50$ Schwarzheit  $n^*$ relative Buntheit  $c^*$ 

UG420-7, 5 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (links)

5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (rechts)

BAM-Prüfvorlage UG42; Farbmatrik-Systeme ORS18 & ORS18input: *cmY0\* setcmykcolor*D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *Startup (S) data dependend*

## Eingabe: Farbmimetrisches Reflexions-System ORS18

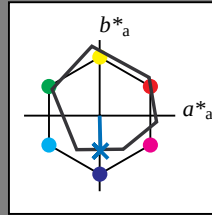
für Buntton  $h^* = lab^*h = 271/360 = 0.754$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton B

LCH\*Ma: 42 45 271

rgb\*Ma: 0.0 0.49 1.0

Dreiecks-Helligkeit



## 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

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

0,00

 $n^* = 1,0$ relative Buntheit  $c^*$ 

UG420-7, 5 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (links)

BAM-Prüfvorlage UG42; Farbmimetrik-Systeme ORS18 & ORS18input:  $cmY0^* setcmykcolor$ D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *Startup (S) data dependend*

## Ausgabe: Farbmimetrisches Reflexions-System NRS11

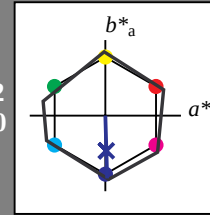
für Buntton  $h^* = lab^*h = 272/360 = 0.755$  $lab^*tch$  und  $lab^*nch$ 

D65: Buntton B

LCH\*Ma: 53 83 272

rgb\*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit



%Umfang

 $u^*_{rel} = 119$ 

## NRS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 53.2        | 77.06   | 34.32   | 84.36        | 24           |
| JMa    | 53.2        | -1.51   | 84.38   | 84.39        | 91           |
| GMa    | 53.2        | -82.27  | 18.98   | 84.44        | 167          |
| G50BMa | 53.2        | -77.72  | -32.98  | 84.44        | 203          |
| BMa    | 53.2        | 4.37    | -84.28  | 84.41        | 273          |
| B50RMa | 53.2        | 69.09   | -48.41  | 84.37        | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularität

 $g^*_{H,rel} = 47$  $g^*_{C,rel} = 100$ 

1,00

0,75

 $n^* = 0,00$ 

0,25

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

0,00

 $n^* = 1,0$ relative Buntheit  $c^*$ 

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

BAM-Prüfvorlage UG42; Farbmimetrik-Systeme ORS18 & ORS18input:  $cmY0^* setcmykcolor$ D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: *Startup (S) data dependend*