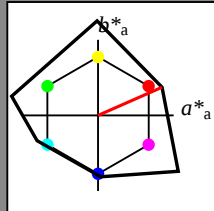


Eingabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 24/360 = 0.066$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton R  
LCH\*Ma: 47 92 24  
rgb\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

relative Buntheit  $c^*$

$n^* = 0,00$

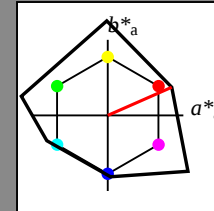
Schwarzheit  $n^*$

Ausgabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 24/360 = 0.066$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton R  
LCH\*Ma: 47 92 24  
rgb\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.066 (links)

5stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.066 (rechts)

BAM-Prüfvorlage UG69; Farbmetrik-Systeme NCS11a & NCS11aput: `cmY0* setcmykcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

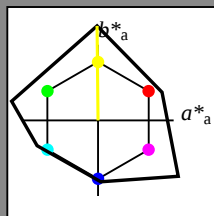
output: `olv* setrgbcolor / w* setgray`

Eingabe: Farbmétrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 91/360 = 0.252$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton J  
LCH\*Ma: 91 125 91  
rgb\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

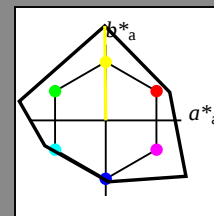
|        | $L^*$ | $a^*$   | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------|---------|--------|--------------|--------------|
| RMa    | 47.15 | 84.64   | 37.25  | 92.48        | 24           |
| JMa    | 91.37 | -1.27   | 125.03 | 125.03       | 91           |
| GMa    | 63.07 | -114.28 | 25.35  | 117.06       | 167          |
| G50BMa | 59.47 | -80.6   | -33.45 | 87.28        | 203          |
| BMa    | 49.01 | 3.65    | -81.19 | 81.28        | 273          |
| B50RMa | 44.06 | 106.09  | -73.93 | 129.32       | 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          |

Ausgabe: Farbmétrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 91/360 = 0.252$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton J  
LCH\*Ma: 91 125 91  
rgb\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

|        | $L^*$ | $a^*$   | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------|---------|--------|--------------|--------------|
| RMa    | 47.15 | 84.64   | 37.25  | 92.48        | 24           |
| JMa    | 91.37 | -1.27   | 125.03 | 125.03       | 91           |
| GMa    | 63.07 | -114.28 | 25.35  | 117.06       | 167          |
| G50BMa | 59.47 | -80.6   | -33.45 | 87.28        | 203          |
| BMa    | 49.01 | 3.65    | -81.19 | 81.28        | 273          |
| B50RMa | 44.06 | 106.09  | -73.93 | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

relative Buntheit  $c^*$

$n^* = 0,00$

Schwarzheit  $n^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.252 (links)

5stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.252 (rechts)

BAM-Prüfvorlage UG69; Farbmétrik-Systeme NCS11a & NCS11aput: `cmY0* setcmykcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

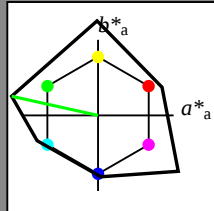
output: `olv* setrgbcolor / w* setgray`

### Eingabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 167/360 = 0.465$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton G  
LCH\*Ma: 63 117 167  
rgb\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

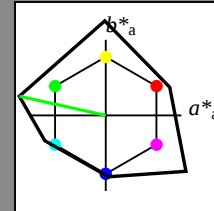
|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

### Ausgabe: Farbmetrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 167/360 = 0.465$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton G  
LCH\*Ma: 63 117 167  
rgb\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

relative Buntheit  $c^*$

$n^* = 0,00$

Schwarzheit  $n^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 167/360 = 0.465 (links)

5stufige Reihen für konstanten CIELAB Buntton 167/360 = 0.465 (rechts)

BAM-Prüfvorlage UG69; Farbmetrik-Systeme NCS11a & NCS11aput: `cmY0* setcmykcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

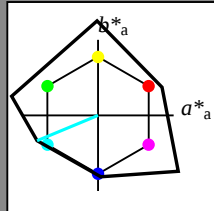
output: `olv* setrgbcolor / w* setgray`

### Eingabe: Farbmétrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 203/360 = 0.563$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton G50B  
LCH\*Ma: 59 87 203  
rgb\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

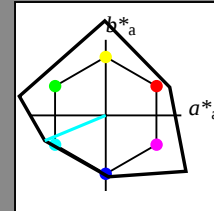
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| RMa                | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa                | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa                | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 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          |

### Ausgabe: Farbmétrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 203/360 = 0.563$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton G50B  
LCH\*Ma: 59 87 203  
rgb\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| RMa                | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa                | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa                | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

relative Buntheit  $c^*$

$n^* = 0,00$

Schwarzheit  $n^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 203/360 = 0.563 (links)

5stufige Reihen für konstanten CIELAB Buntton 203/360 = 0.563 (rechts)

BAM-Prüfvorlage UG69; Farbmétrik-Systeme NCS11a & NCS11aput: `cmv0* setcmykcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

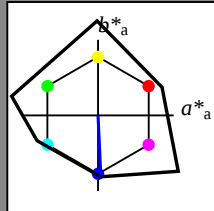
output: `olv* setrgbcolor / w* setgray`

### Eingabe: Farbmétrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 273/360 = 0.757$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton B  
LCH\*Ma: 49 81 273  
rgb\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

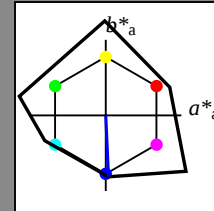
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| RMa                | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa                | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa                | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 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          |

### Ausgabe: Farbmétrisches Reflexions-System NCS11

für Buntton  $h^* = lab^*h = 273/360 = 0.757$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton B  
LCH\*Ma: 49 81 273  
rgb\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| RMa                | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa                | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa                | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

relative Buntheit  $c^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (links)

5stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (rechts)

BAM-Prüfvorlage UG69; Farbmétrik-Systeme NCS11a & NCS11aput: `cmv0* setcmkcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

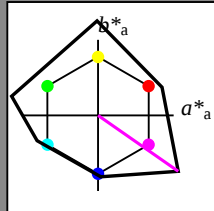
output: `olv* setrgbcolor / w* setgray`

### Eingabe: Farbmetrisches Reflexions-System NCS11

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

D65: Buntton B50R  
LCH\*Ma: 44 129 325  
rgb\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

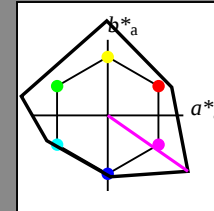
| NCS11; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa                            | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa                            | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa                         | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa                            | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa                         | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

### Ausgabe: Farbmetrisches Reflexions-System NCS11

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

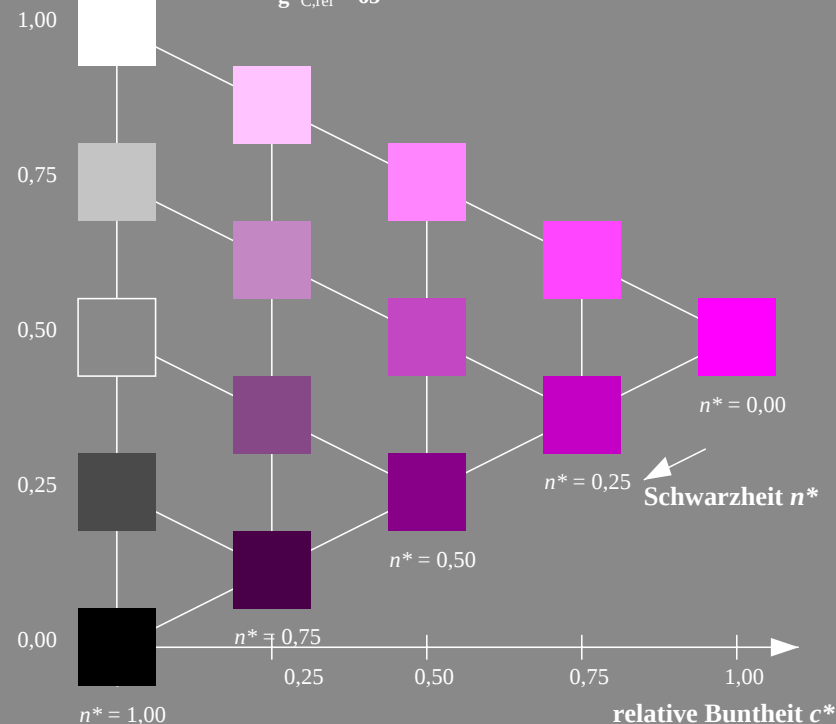
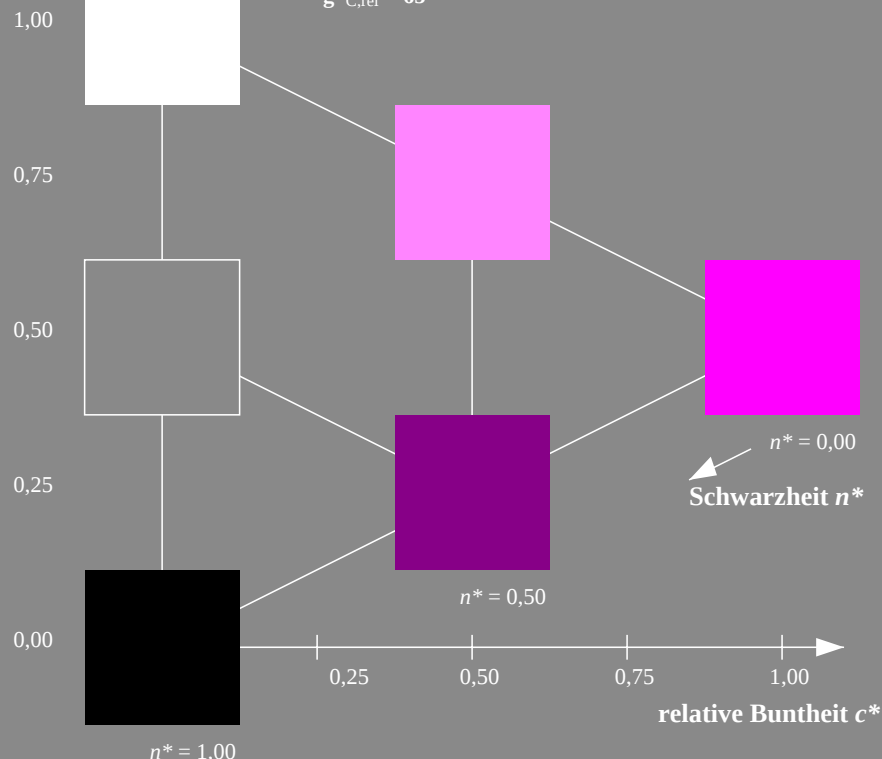
D65: Buntton B50R  
LCH\*Ma: 44 129 325  
rgb\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

| NCS11; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa                            | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa                            | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa                            | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa                         | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa                            | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa                         | 44.06       | 106.09  | -73.93  | 129.32       | 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          |



UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 325/360 = 0.903 (links)

5stufige Reihen für konstanten CIELAB Buntton 325/360 = 0.903 (rechts)

BAM-Prüfvorlage UG69; Farbmetrik-Systeme NCS11a & NCS11aput: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

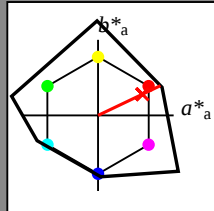
output: *olv\* setrgbcolor / w\* setgray*

### Eingabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton R  
LCH\*Ma: 48 91 25  
rgb\*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

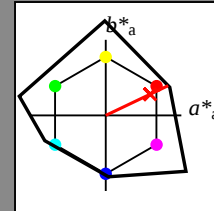
|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

### Ausgabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton R  
LCH\*Ma: 48 91 25  
rgb\*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

relative Buntheit  $c^*$

$n^* = 0,00$

Schwarzheit  $n^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

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

BAM-Prüfvorlage UG69; Farbmétrik-Systeme NCS11a & NCS11aput: `cmY0* setcmykcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

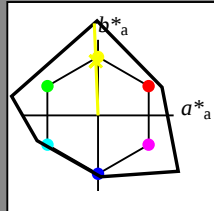
output: `olv* setrgbcolor / w* setgray`

### Eingabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton J  
LCH\*Ma: 90 122 92  
rgb\*Ma: 0.97 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

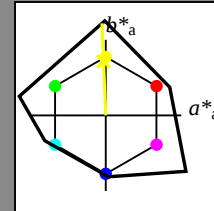
|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |

### Ausgabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton J  
LCH\*Ma: 90 122 92  
rgb\*Ma: 0.97 1.0 0.0

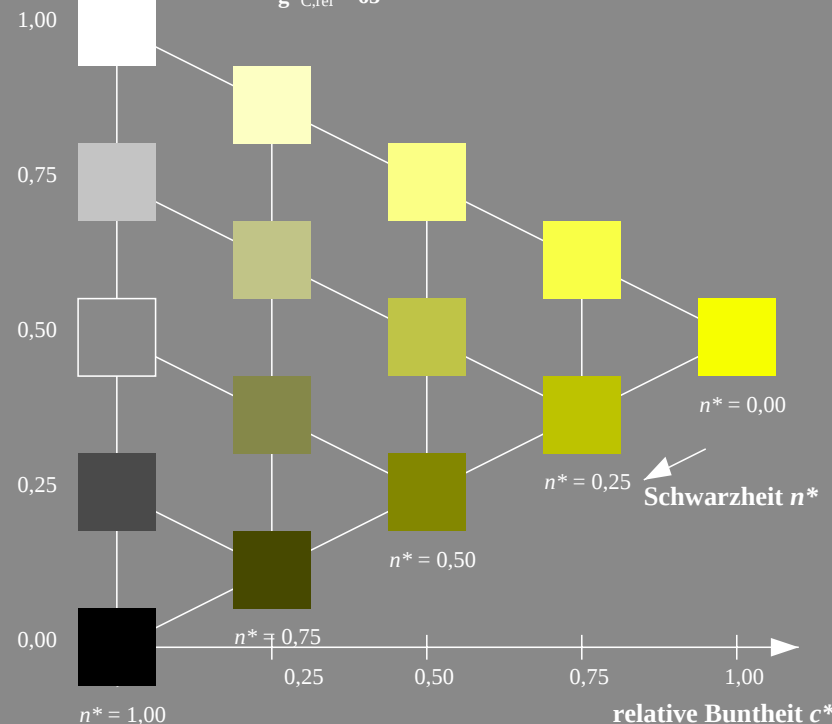
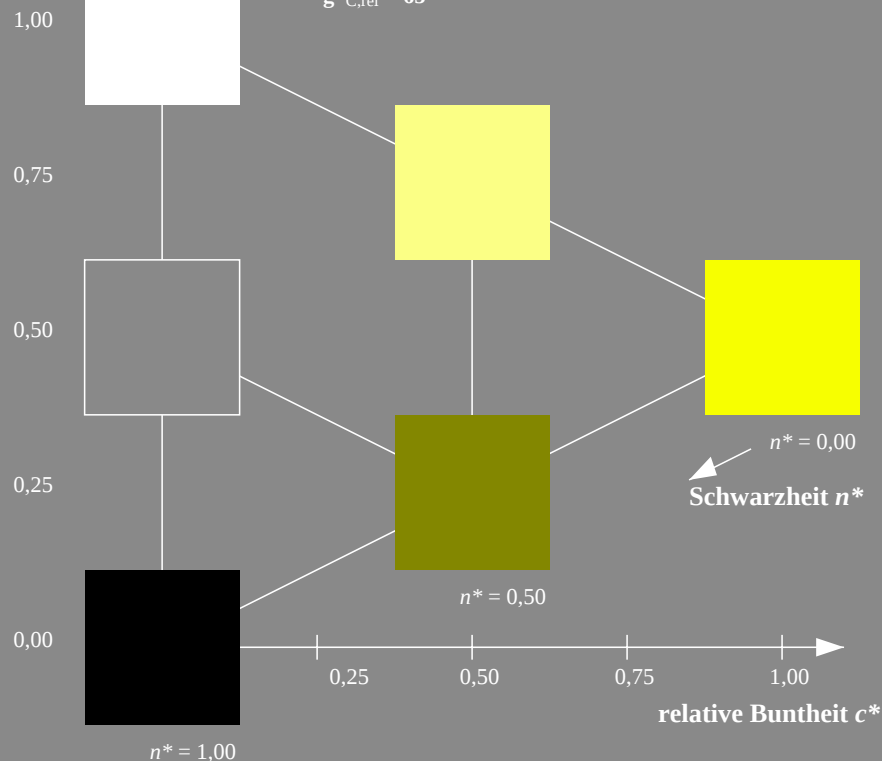
Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 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          |



UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

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

BAM-Prüfvorlage UG69; Farbmétrik-Systeme NCS11a & NCS11aput: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

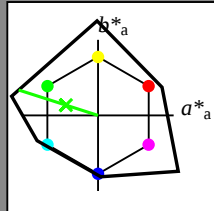
output: *olv\* setrgbcolor / w\* setgray*

### Eingabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton G  
LCH\*Ma: 65 110 162  
rgb\*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

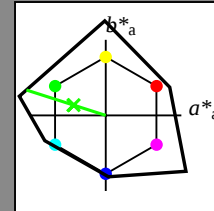
|        | $L^*$ | $a^*$   | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------|---------|--------|--------------|--------------|
| RMa    | 47.15 | 84.64   | 37.25  | 92.48        | 24           |
| JMa    | 91.37 | -1.27   | 125.03 | 125.03       | 91           |
| GMa    | 63.07 | -114.28 | 25.35  | 117.06       | 167          |
| G50BMa | 59.47 | -80.6   | -33.45 | 87.28        | 203          |
| BMa    | 49.01 | 3.65    | -81.19 | 81.28        | 273          |
| B50RMa | 44.06 | 106.09  | -73.93 | 129.32       | 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          |

### Ausgabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton G  
LCH\*Ma: 65 110 162  
rgb\*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

### NCS11; adaptierte CIELAB-Daten

|        | $L^*$ | $a^*$   | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------|---------|--------|--------------|--------------|
| RMa    | 47.15 | 84.64   | 37.25  | 92.48        | 24           |
| JMa    | 91.37 | -1.27   | 125.03 | 125.03       | 91           |
| GMa    | 63.07 | -114.28 | 25.35  | 117.06       | 167          |
| G50BMa | 59.47 | -80.6   | -33.45 | 87.28        | 203          |
| BMa    | 49.01 | 3.65    | -81.19 | 81.28        | 273          |
| B50RMa | 44.06 | 106.09  | -73.93 | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

0,25

$n^* = 0,50$

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

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

BAM-Prüfvorlage UG69; Farbmétrik-Systeme NCS11a & NCS11aput: `cmY0* setcmykcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

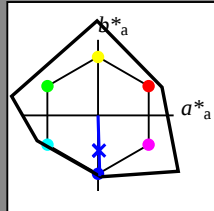
output: `olv* setrgbcolor / w* setgray`

Eingabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton B  
LCH\*Ma: 49 80 272  
rgb\*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

|        | $L^*$ | $a^*$   | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------|---------|--------|--------------|--------------|
| RMa    | 47.15 | 84.64   | 37.25  | 92.48        | 24           |
| JMa    | 91.37 | -1.27   | 125.03 | 125.03       | 91           |
| GMa    | 63.07 | -114.28 | 25.35  | 117.06       | 167          |
| G50BMa | 59.47 | -80.6   | -33.45 | 87.28        | 203          |
| BMa    | 49.01 | 3.65    | -81.19 | 81.28        | 273          |
| B50RMa | 44.06 | 106.09  | -73.93 | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

0,25

0,50

0,75

1,00

relative Buntheit  $c^*$

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

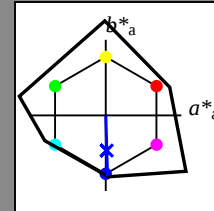
Schwarzheit  $n^*$

Ausgabe: Farbmétrisches Reflexions-System NCS11

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

D65: Buntton B  
LCH\*Ma: 49 80 272  
rgb\*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 149$   
%Regularität  
 $g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

|        | $L^*$ | $a^*$   | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------|---------|--------|--------------|--------------|
| RMa    | 47.15 | 84.64   | 37.25  | 92.48        | 24           |
| JMa    | 91.37 | -1.27   | 125.03 | 125.03       | 91           |
| GMa    | 63.07 | -114.28 | 25.35  | 117.06       | 167          |
| G50BMa | 59.47 | -80.6   | -33.45 | 87.28        | 203          |
| BMa    | 49.01 | 3.65    | -81.19 | 81.28        | 273          |
| B50RMa | 44.06 | 106.09  | -73.93 | 129.32       | 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          |

1,00

0,75

0,50

0,25

0,00

0,25

0,50

0,75

1,00

relative Buntheit  $c^*$

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

Schwarzheit  $n^*$

UG690-7, 3stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

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

BAM-Prüfvorlage UG69; Farbmétrik-Systeme NCS11a & NCS11aput: `cmY0* setcmykcolor`

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

output: `olv* setrgbcolor / w* setgray`