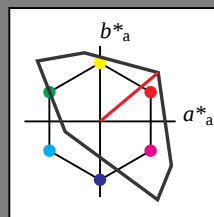


### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab \cdot h = 40/360 = 0.111$   
 $lab \cdot ich$  und  $lab \cdot nch$

D65: Buntton O  
LCH\*Ma: 51 100 40  
olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

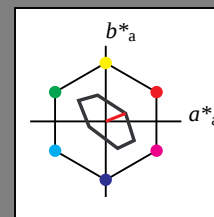
| TLS00; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>                | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>                | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>                | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>                | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>                | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>                | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>               | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>               | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>               | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab \cdot h = 22/360 = 0.061$   
 $lab \cdot ich$  und  $lab \cdot nch$

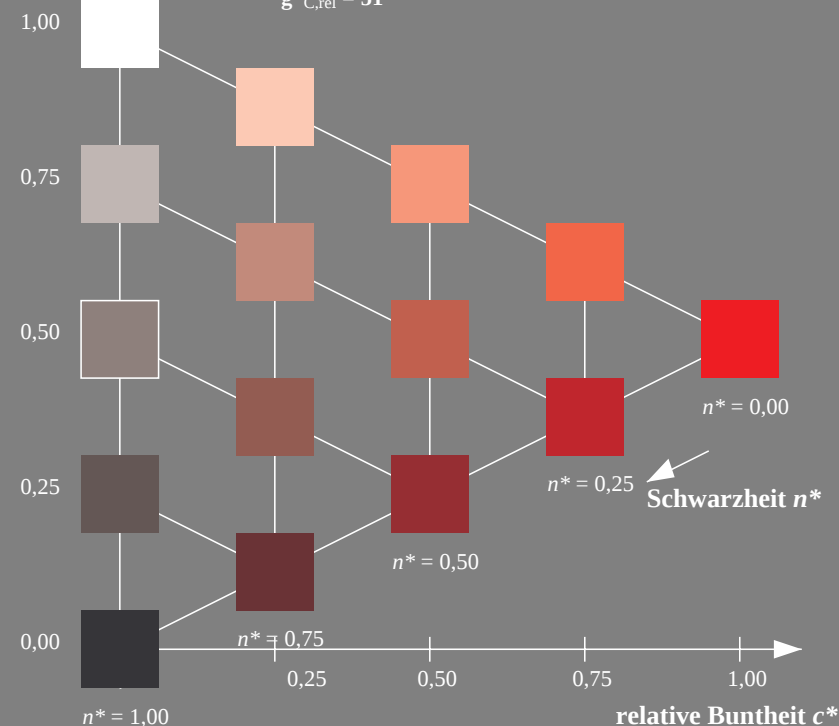
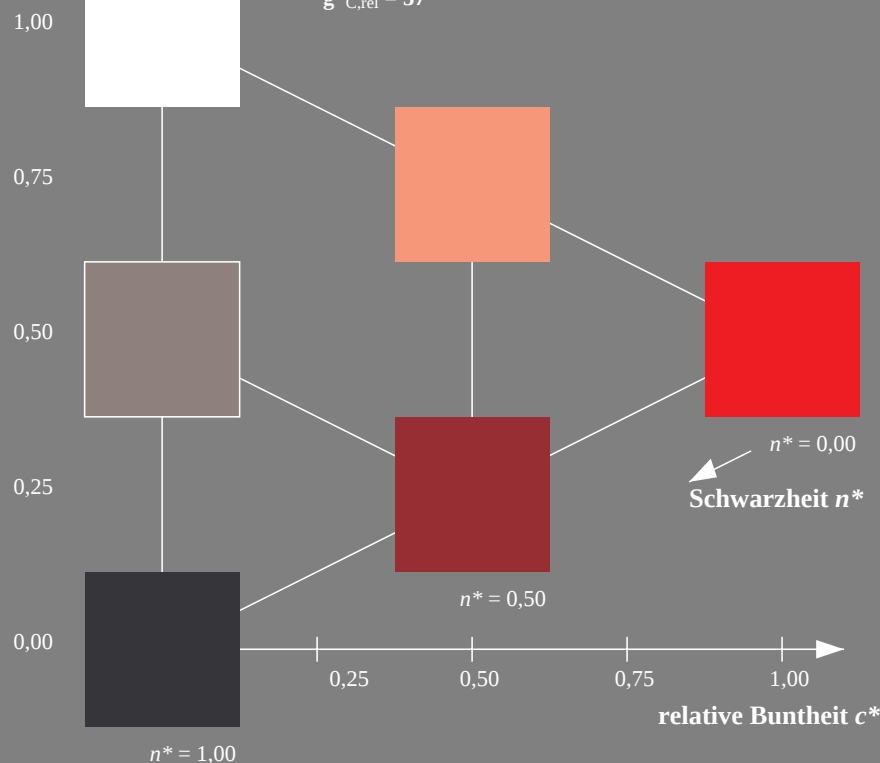
D65: Buntton O  
LCH\*Ma: 76 28 22  
olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>                | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>                | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>                | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>                | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>                | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>                | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>               | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>               | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>               | 30.57       | 1.41    | -46.46  | 46.49        | 272          |



OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 40/360 = 0.111 (links)

5stufige Reihen für konstanten CIELAB Buntton 22/360 = 0.061 (rechts)

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

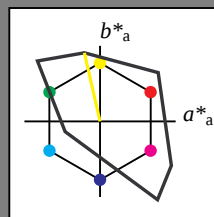
output: *no change compared to input*

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab \cdot h = 103/360 = 0.286$   
 $lab \cdot ich$  und  $lab \cdot nch$

D65: Buntton Y  
LCH\*Ma: 93 93 103  
olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

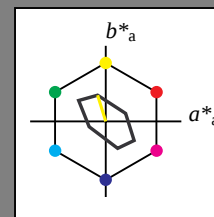
| TLS00; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 50.5                       | 76.92   | 64.55   | 100.42       | 40           |  |
| YMa 92.66                      | -20.69  | 90.75   | 93.08        | 103          |  |
| LMa 83.63                      | -82.75  | 79.9    | 115.04       | 136          |  |
| CMa 86.88                      | -46.16  | -13.55  | 48.12        | 196          |  |
| VMa 30.39                      | 76.06   | -103.59 | 128.52       | 306          |  |
| MMa 57.3                       | 94.35   | -58.41  | 110.97       | 328          |  |
| NMa 0.01                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab \cdot h = 107/360 = 0.298$   
 $lab \cdot ich$  und  $lab \cdot nch$

D65: Buntton Y  
LCH\*Ma: 94 36 107  
olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 76.43                      | 26.27   | 10.57   | 28.32        | 22           |  |
| YMa 93.93                      | -10.76  | 34.63   | 36.27        | 107          |  |
| LMa 89.32                      | -35.8   | 27.64   | 45.24        | 142          |  |
| CMa 90.93                      | -21.95  | -7.07   | 23.07        | 198          |  |
| VMa 72.1                       | 15.76   | -35.63  | 38.97        | 294          |  |
| MMa 78.5                       | 37.52   | -25.23  | 45.22        | 326          |  |
| NMa 69.7                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0,00$

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  $c^*$

Schwarzheit  $n^*$

OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 103/360 = 0.286 (links)

5stufige Reihen für konstanten CIELAB Buntton 107/360 = 0.298 (rechts)

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

output: *no change compared to input*

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

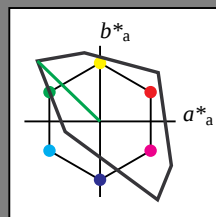
für Buntton  $h^* = lab^*h = 136/360 = 0.378$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton L

LCH\*Ma: 84 115 136

olv\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

| TLS00; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| O <sub>Ma</sub> 50.5           | 76.92   | 64.55   | 100.42       | 40           |  |
| Y <sub>Ma</sub> 92.66          | -20.69  | 90.75   | 93.08        | 103          |  |
| L <sub>Ma</sub> 83.63          | -82.75  | 79.9    | 115.04       | 136          |  |
| C <sub>Ma</sub> 86.88          | -46.16  | -13.55  | 48.12        | 196          |  |
| V <sub>Ma</sub> 30.39          | 76.06   | -103.59 | 128.52       | 306          |  |
| M <sub>Ma</sub> 57.3           | 94.35   | -58.41  | 110.97       | 328          |  |
| N <sub>Ma</sub> 0.01           | 0.0     | 0.0     | 0.0          | 0            |  |
| W <sub>Ma</sub> 95.41          | 0.0     | 0.0     | 0.0          | 0            |  |
| R <sub>CIE</sub> 39.92         | 58.74   | 27.99   | 65.07        | 25           |  |
| J <sub>CIE</sub> 81.26         | -2.88   | 71.56   | 71.62        | 92           |  |
| G <sub>CIE</sub> 52.23         | -42.41  | 13.6    | 44.55        | 162          |  |
| B <sub>CIE</sub> 30.57         | 1.41    | -46.46  | 46.49        | 272          |  |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

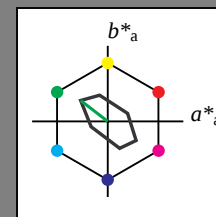
für Buntton  $h^* = lab^*h = 142/360 = 0.395$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton L

LCH\*Ma: 89 45 142

olv\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| O <sub>Ma</sub> 76.43          | 26.27   | 10.57   | 28.32        | 22           |  |
| Y <sub>Ma</sub> 93.93          | -10.76  | 34.63   | 36.27        | 107          |  |
| L <sub>Ma</sub> 89.32          | -35.8   | 27.64   | 45.24        | 142          |  |
| C <sub>Ma</sub> 90.93          | -21.95  | -7.07   | 23.07        | 198          |  |
| V <sub>Ma</sub> 72.1           | 15.76   | -35.63  | 38.97        | 294          |  |
| M <sub>Ma</sub> 78.5           | 37.52   | -25.23  | 45.22        | 326          |  |
| N <sub>Ma</sub> 69.7           | 0.0     | 0.0     | 0.0          | 0            |  |
| W <sub>Ma</sub> 95.41          | 0.0     | 0.0     | 0.0          | 0            |  |
| R <sub>CIE</sub> 39.92         | 58.74   | 27.99   | 65.07        | 25           |  |
| J <sub>CIE</sub> 81.26         | -2.88   | 71.56   | 71.62        | 92           |  |
| G <sub>CIE</sub> 52.23         | -42.41  | 13.6    | 44.55        | 162          |  |
| B <sub>CIE</sub> 30.57         | 1.41    | -46.46  | 46.49        | 272          |  |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

relative Buntheit  $c^*$

Schwarzheit  $n^*$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,75$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

relative Buntheit  $c^*$

Schwarzheit  $n^*$

OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 136/360 = 0.378 (links)

5stufige Reihen für konstanten CIELAB Buntton 142/360 = 0.395 (rechts)

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

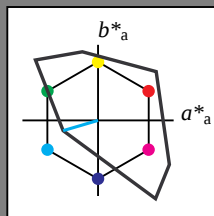
output: *no change compared to input*

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 196/360 = 0.545$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton C  
LCH\*Ma: 87 48 196  
olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

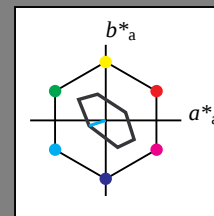
| TLS00; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 50.5                       | 76.92   | 64.55   | 100.42       | 40           |  |
| YMa 92.66                      | -20.69  | 90.75   | 93.08        | 103          |  |
| LMa 83.63                      | -82.75  | 79.9    | 115.04       | 136          |  |
| CMa 86.88                      | -46.16  | -13.55  | 48.12        | 196          |  |
| VMa 30.39                      | 76.06   | -103.59 | 128.52       | 306          |  |
| MMa 57.3                       | 94.35   | -58.41  | 110.97       | 328          |  |
| NMa 0.01                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 198/360 = 0.55$   
 $lab^*ich$  und  $lab^*nch$

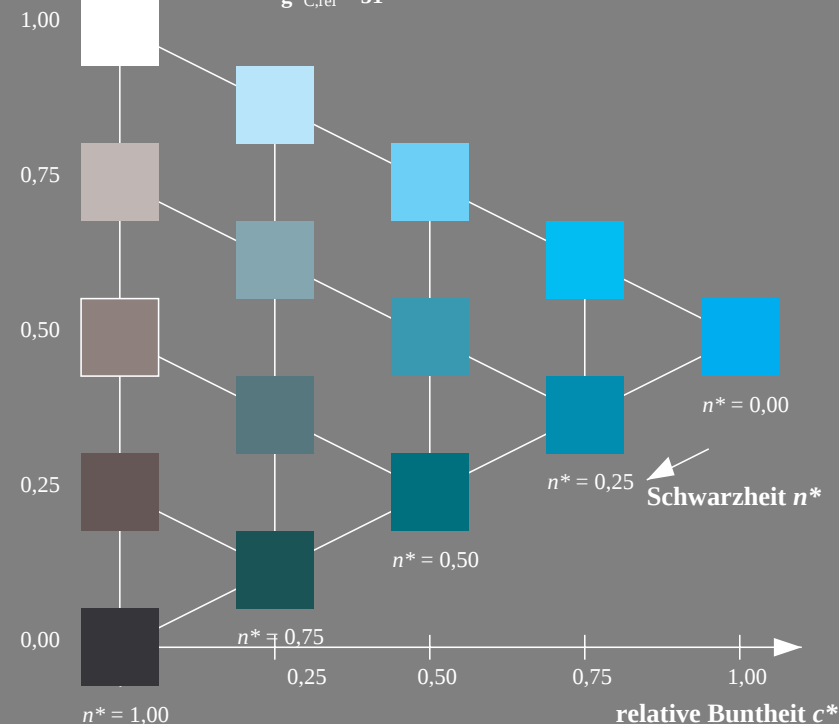
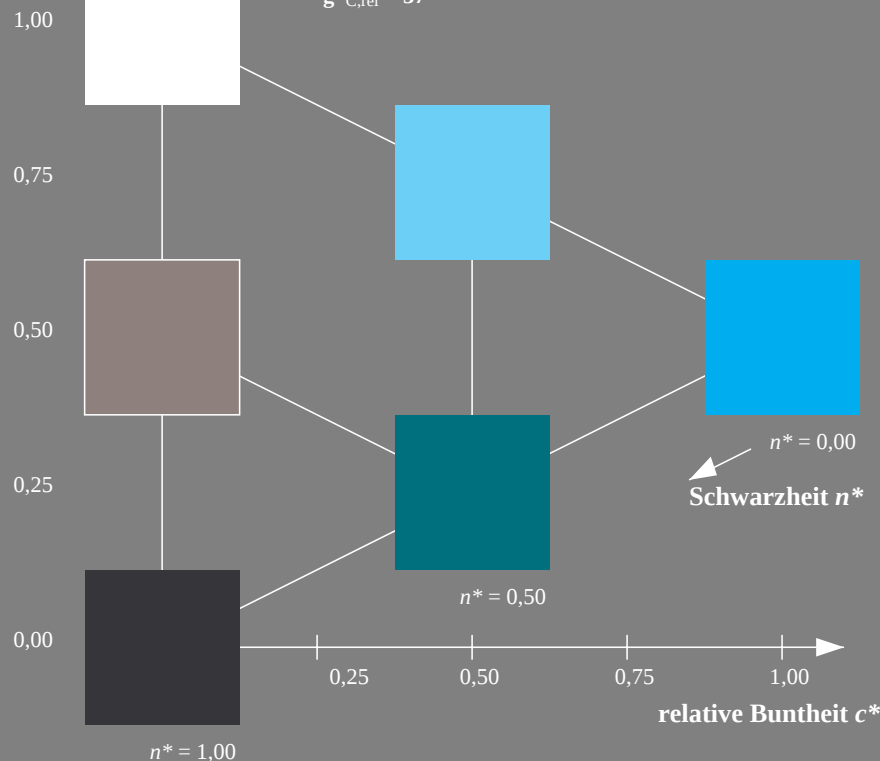
D65: Buntton C  
LCH\*Ma: 91 23 198  
olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 76.43                      | 26.27   | 10.57   | 28.32        | 22           |  |
| YMa 93.93                      | -10.76  | 34.63   | 36.27        | 107          |  |
| LMa 89.32                      | -35.8   | 27.64   | 45.24        | 142          |  |
| CMa 90.93                      | -21.95  | -7.07   | 23.07        | 198          |  |
| VMa 72.1                       | 15.76   | -35.63  | 38.97        | 294          |  |
| MMa 78.5                       | 37.52   | -25.23  | 45.22        | 326          |  |
| NMa 69.7                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |



OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.545 (links)

5stufige Reihen für konstanten CIELAB Buntton 198/360 = 0.55 (rechts)

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

output: *no change compared to input*

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

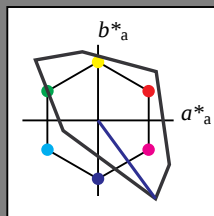
für Buntton  $h^* = lab^*h = 306/360 = 0.851$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 30 129 306

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

| TLS00; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| OMa                            | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| YMa                            | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| LMa                            | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| CMa                            | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| VMa                            | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| MMa                            | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| NMa                            | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| WMa                            | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                           | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| JCIE                           | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| GCIE                           | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| BCIE                           | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

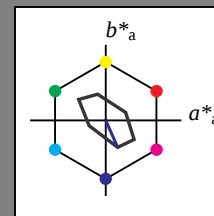
für Buntton  $h^* = lab^*h = 294/360 = 0.816$   
 $lab^*ich$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 72 39 294

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| OMa                            | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| YMa                            | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| LMa                            | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| CMa                            | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| VMa                            | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| MMa                            | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| NMa                            | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| WMa                            | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE                           | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| JCIE                           | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| GCIE                           | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| BCIE                           | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0,00$

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  $c^*$

Schwarzheit  $n^*$

OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 306/360 = 0.851 (links)

5stufige Reihen für konstanten CIELAB Buntton 294/360 = 0.816 (rechts)

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

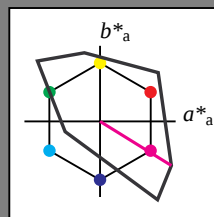
output: *no change compared to input*

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab \cdot h = 328/360 = 0.912$   
 $lab \cdot ich$  und  $lab \cdot nch$

D65: Buntton M  
LCH\*Ma: 57 111 328  
olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

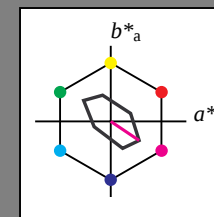
| TLS00; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 50.5                       | 76.92   | 64.55   | 100.42       | 40           |  |
| YMa 92.66                      | -20.69  | 90.75   | 93.08        | 103          |  |
| LMa 83.63                      | -82.75  | 79.9    | 115.04       | 136          |  |
| CMa 86.88                      | -46.16  | -13.55  | 48.12        | 196          |  |
| VMa 30.39                      | 76.06   | -103.59 | 128.52       | 306          |  |
| MMa 57.3                       | 94.35   | -58.41  | 110.97       | 328          |  |
| NMa 0.01                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab \cdot h = 326/360 = 0.906$   
 $lab \cdot ich$  und  $lab \cdot nch$

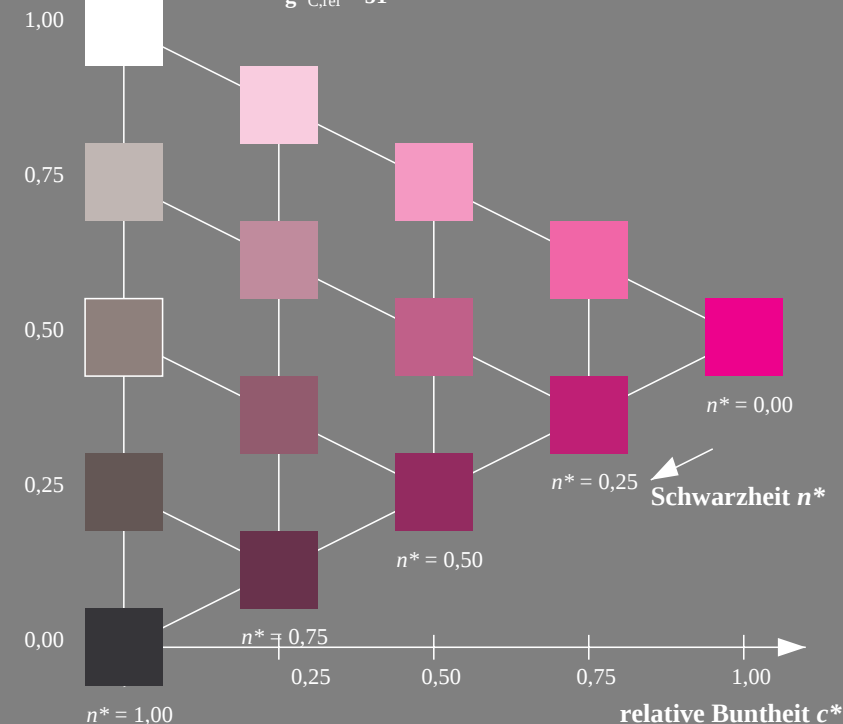
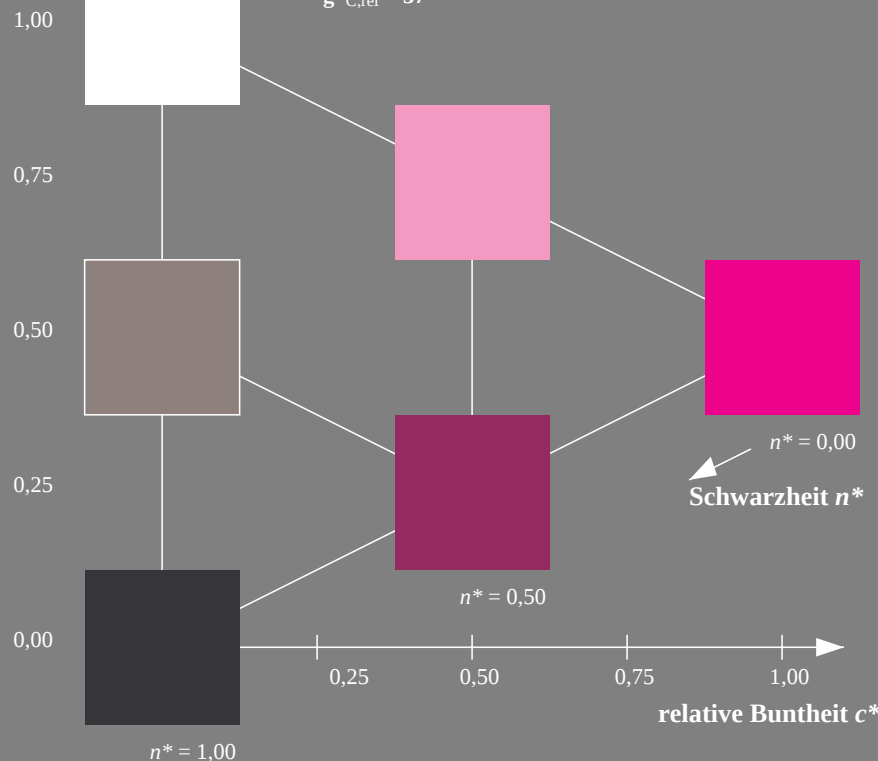
D65: Buntton M  
LCH\*Ma: 79 45 326  
olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 76.43                      | 26.27   | 10.57   | 28.32        | 22           |  |
| YMa 93.93                      | -10.76  | 34.63   | 36.27        | 107          |  |
| LMa 89.32                      | -35.8   | 27.64   | 45.24        | 142          |  |
| CMa 90.93                      | -21.95  | -7.07   | 23.07        | 198          |  |
| VMa 72.1                       | 15.76   | -35.63  | 38.97        | 294          |  |
| MMa 78.5                       | 37.52   | -25.23  | 45.22        | 326          |  |
| NMa 69.7                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |



OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.912 (links)

5stufige Reihen für konstanten CIELAB Buntton 326/360 = 0.906 (rechts)

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

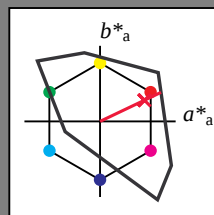
output: *no change compared to input*

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

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

D65: Buntton R  
LCH\*Ma: 52 89 25  
olv\*Ma: 1.0 0.0 0.21

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

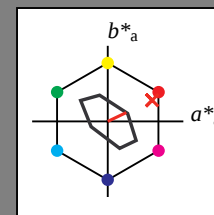
| TLS00; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>                | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>                | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>                | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>                | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>                | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>                | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>               | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>               | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>               | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

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

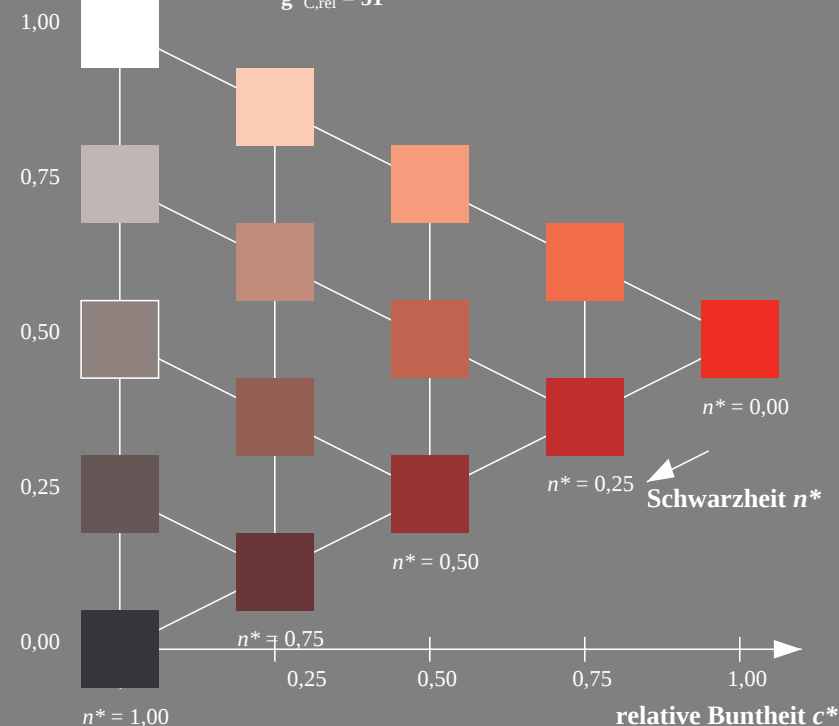
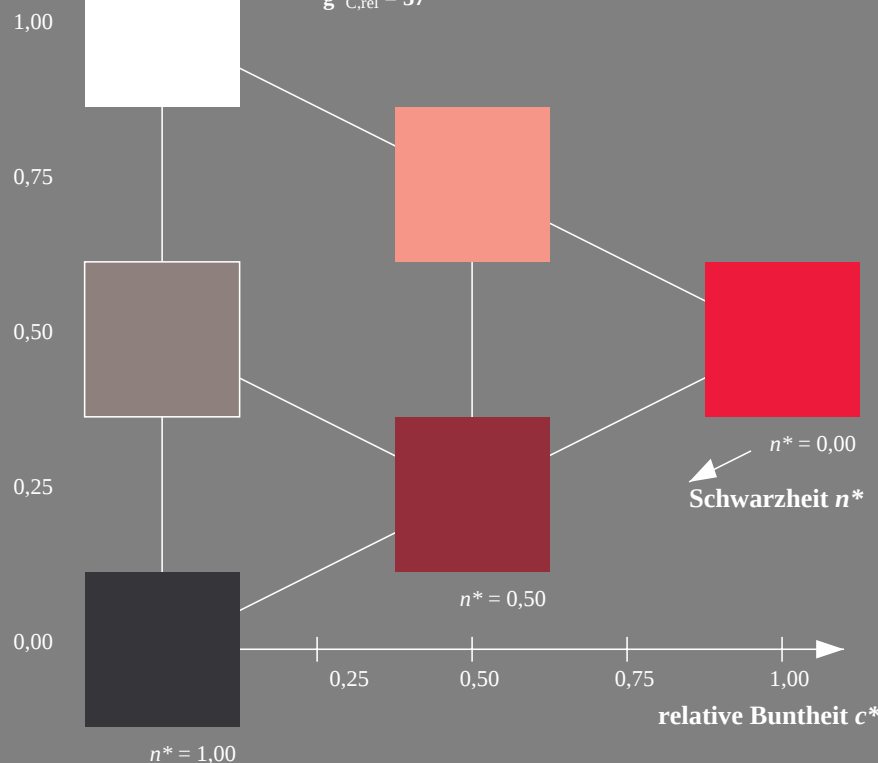
D65: Buntton R  
LCH\*Ma: 77 27 25  
olv\*Ma: 1.0 0.05 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>                | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>                | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>                | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>                | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>                | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>                | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>               | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>               | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>               | 30.57       | 1.41    | -46.46  | 46.49        | 272          |



OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

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

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input:  $cmY0^* setcmykcolor$

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

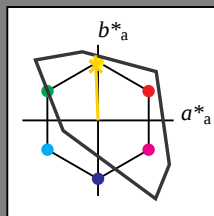
output: no change compared to input

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

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

D65: Buntton J  
LCH\*Ma: 85 86 92  
olv\*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

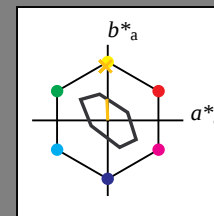
| TLS00; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 50.5                       | 76.92   | 64.55   | 100.42       | 40           |  |
| YMa 92.66                      | -20.69  | 90.75   | 93.08        | 103          |  |
| LMa 83.63                      | -82.75  | 79.9    | 115.04       | 136          |  |
| CMa 86.88                      | -46.16  | -13.55  | 48.12        | 196          |  |
| VMa 30.39                      | 76.06   | -103.59 | 128.52       | 306          |  |
| MMa 57.3                       | 94.35   | -58.41  | 110.97       | 328          |  |
| NMa 0.01                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

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

D65: Buntton J  
LCH\*Ma: 89 28 92  
olv\*Ma: 1.0 0.74 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 76.43                      | 26.27   | 10.57   | 28.32        | 22           |  |
| YMa 93.93                      | -10.76  | 34.63   | 36.27        | 107          |  |
| LMa 89.32                      | -35.8   | 27.64   | 45.24        | 142          |  |
| CMa 90.93                      | -21.95  | -7.07   | 23.07        | 198          |  |
| VMa 72.1                       | 15.76   | -35.63  | 38.97        | 294          |  |
| MMa 78.5                       | 37.52   | -25.23  | 45.22        | 326          |  |
| NMa 69.7                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |

1,00

0,75

0,50

0,25

0,00

$n^* = 1,00$

$n^* = 0,50$

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0,00$

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  $c^*$

Schwarzheit  $n^*$

OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

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

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input:  $cmY0^* setcmykcolor$

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

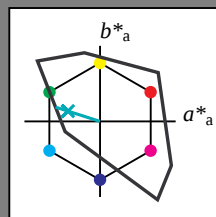
output: no change compared to input

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

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

D65: Buntton G  
LCH\*Ma: 86 62 162  
olv\*Ma: 0.0 1.0 0.65

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

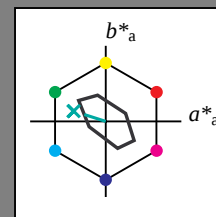
| TLS00; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 50.5                       | 76.92   | 64.55   | 100.42       | 40           |  |
| YMa 92.66                      | -20.69  | 90.75   | 93.08        | 103          |  |
| LMa 83.63                      | -82.75  | 79.9    | 115.04       | 136          |  |
| CMa 86.88                      | -46.16  | -13.55  | 48.12        | 196          |  |
| VMa 30.39                      | 76.06   | -103.59 | 128.52       | 306          |  |
| MMa 57.3                       | 94.35   | -58.41  | 110.97       | 328          |  |
| NMa 0.01                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

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

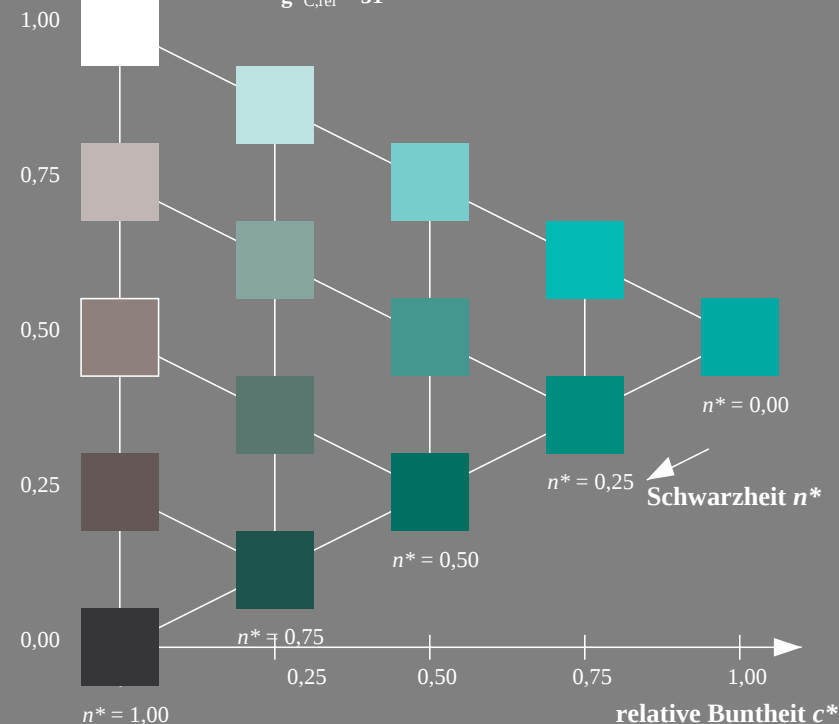
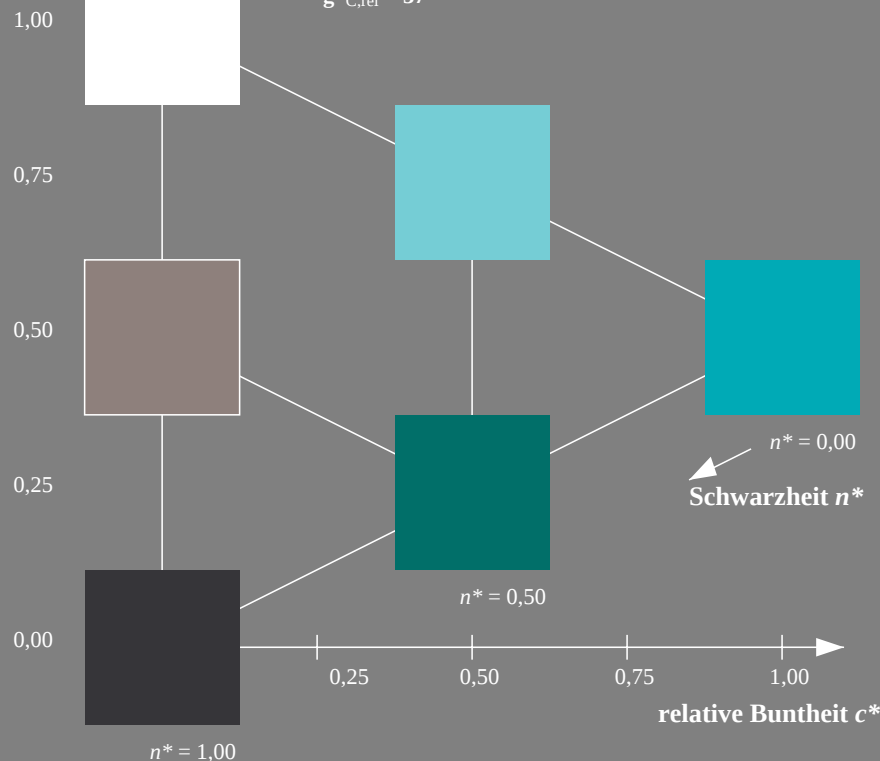
D65: Buntton G  
LCH\*Ma: 90 30 162  
olv\*Ma: 0.0 1.0 0.53

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |         |         |              |              |  |
|--------------------------------|---------|---------|--------------|--------------|--|
| $L^*=L^*_a$                    | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| OMa 76.43                      | 26.27   | 10.57   | 28.32        | 22           |  |
| YMa 93.93                      | -10.76  | 34.63   | 36.27        | 107          |  |
| LMa 89.32                      | -35.8   | 27.64   | 45.24        | 142          |  |
| CMa 90.93                      | -21.95  | -7.07   | 23.07        | 198          |  |
| VMa 72.1                       | 15.76   | -35.63  | 38.97        | 294          |  |
| MMa 78.5                       | 37.52   | -25.23  | 45.22        | 326          |  |
| NMa 69.7                       | 0.0     | 0.0     | 0.0          | 0            |  |
| WMa 95.41                      | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE 39.92                     | 58.74   | 27.99   | 65.07        | 25           |  |
| JCIE 81.26                     | -2.88   | 71.56   | 71.62        | 92           |  |
| GCIE 52.23                     | -42.41  | 13.6    | 44.55        | 162          |  |
| BCIE 30.57                     | 1.41    | -46.46  | 46.49        | 272          |  |



OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

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

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

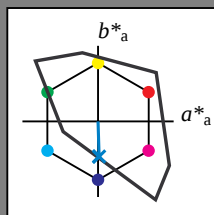
output: *no change compared to input*

### Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

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

D65: Buntton B  
LCH\*Ma: 65 49 272  
olv\*Ma: 0.0 0.61 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

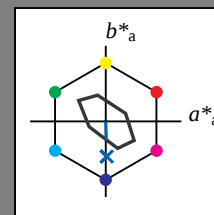
| TLS00; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>                | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>                | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>                | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>                | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>                | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>                | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>               | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>               | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>               | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

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

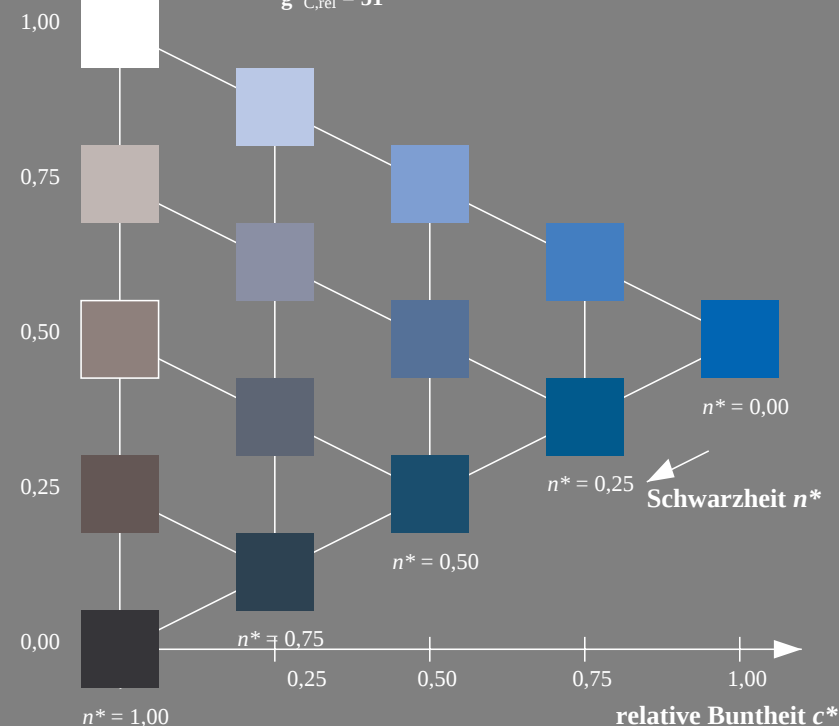
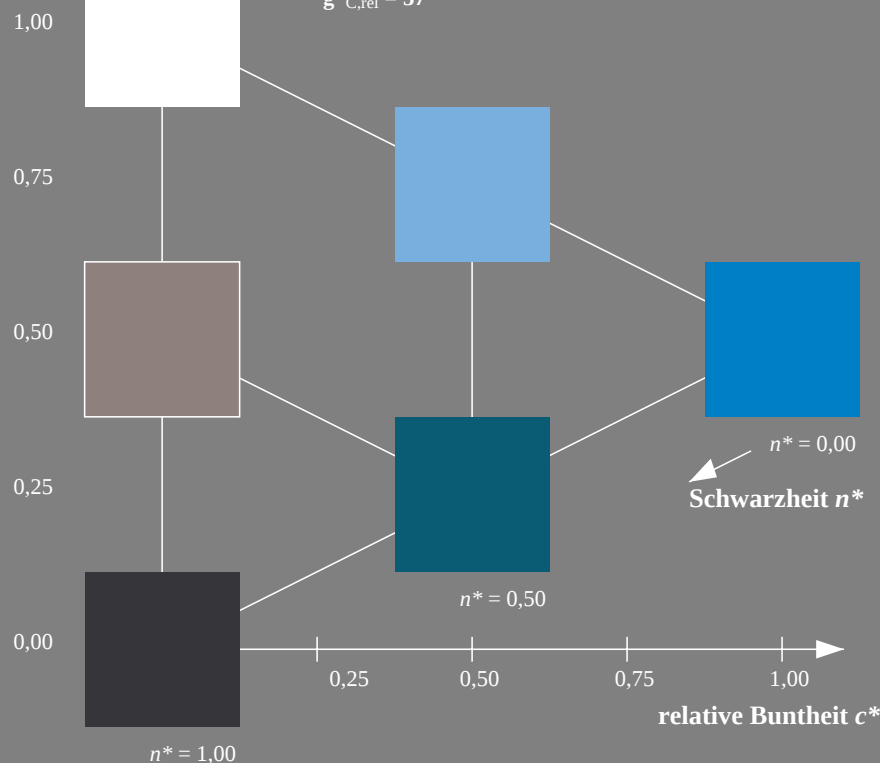
D65: Buntton B  
LCH\*Ma: 80 24 272  
olv\*Ma: 0.0 0.4 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 16$   
%Regularität  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

| TLS70; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>                | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>                | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>                | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>                | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>                | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>                | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>               | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>               | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>               | 30.57       | 1.41    | -46.46  | 46.49        | 272          |



OG630-7, 3stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

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

BAM-Prüfvorlage OG63; Farbmetrik-Systeme TLS00 & TLS70 input: *cmY0\* setcmykcolor*

D65: 3 und 5stufige Farbreihen für 10 Bunttöne

output: *no change compared to input*