

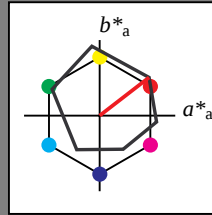
Eingabe: Farbmimetrisches Reflexions-System ORS18

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



ORS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit c^*

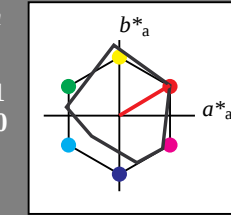
Ausgabe: Farbmimetrisches Reflexions-System MRS18a

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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

%Regularität

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

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

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

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

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

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18a

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

input: $cmY0^* setcmykcolor$

output: $no change compared to input$

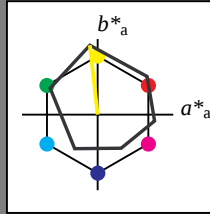
Eingabe: Farbmatisches Reflexions-System ORS18

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

$n^* = 0,25$

$n^* = 0,50$

0,00

relative Buntheit c^*

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

BAM-Prüfvorlage UG41; Farbmatrik-Systeme ORS18 & MRS18

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

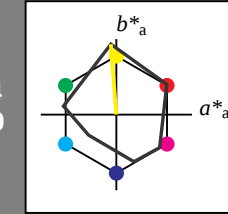
Ausgabe: Farbmatisches Reflexions-System MRS18a

für Buntton $h^* = lab^*h = 94/360 = 0.262$

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 92$

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

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

relative Buntheit c^*

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

input: $cmy0^* setcmykcolor$

output: no change compared to input

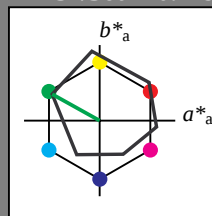
Eingabe: Farbmimetrisches Reflexions-System ORS18

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

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

Dreiecks-Helligkeit

1,00



%Umfang

$u^*_{rel} = 93$

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

1,00

relative Inform. Technology (IT)				
olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	0.01	0.0	
LAB*LABa	95.41	0.01	0.0	
LAB*LABb	95.41	0.01	0.0	
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
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	76.06	0.03	0.0	
LAB*LABa	76.06	0.03	0.0	
LAB*LABb	76.06	0.03	0.0	
relative CIELAB lab*				
lab*lab	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.75	0.0	0.0	
lab*tce	0.75	0.0	0.0	
lab*nce	0.25	0.0	0.0	

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	0.05	0.0	
LAB*LABa	56.71	0.05	0.0	
LAB*LABb	56.71	0.05	0.0	
relative CIELAB lab*				
lab*lab	0.5	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.5	0.0	0.0	
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	37.36	0.07	0.0	
LAB*LABa	37.36	0.07	0.0	
LAB*LABb	37.36	0.07	0.0	
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*tch	0.25	0.0	0.0	
lab*nch	0.75	0.0	0.0	
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	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.1	0.02	
LAB*LABa	18.02	0.1	0.02	
LAB*LABb	18.02	0.1	0.02	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	1.0	0.0	0.0	
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 Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 0,00$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 0,25$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 0,50$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 0,75$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

relative Buntheit c^*

0,25 0,50 0,75 1,00

$n^* = 1,0$

Schwarzheit n^*

Seitenzahl 4

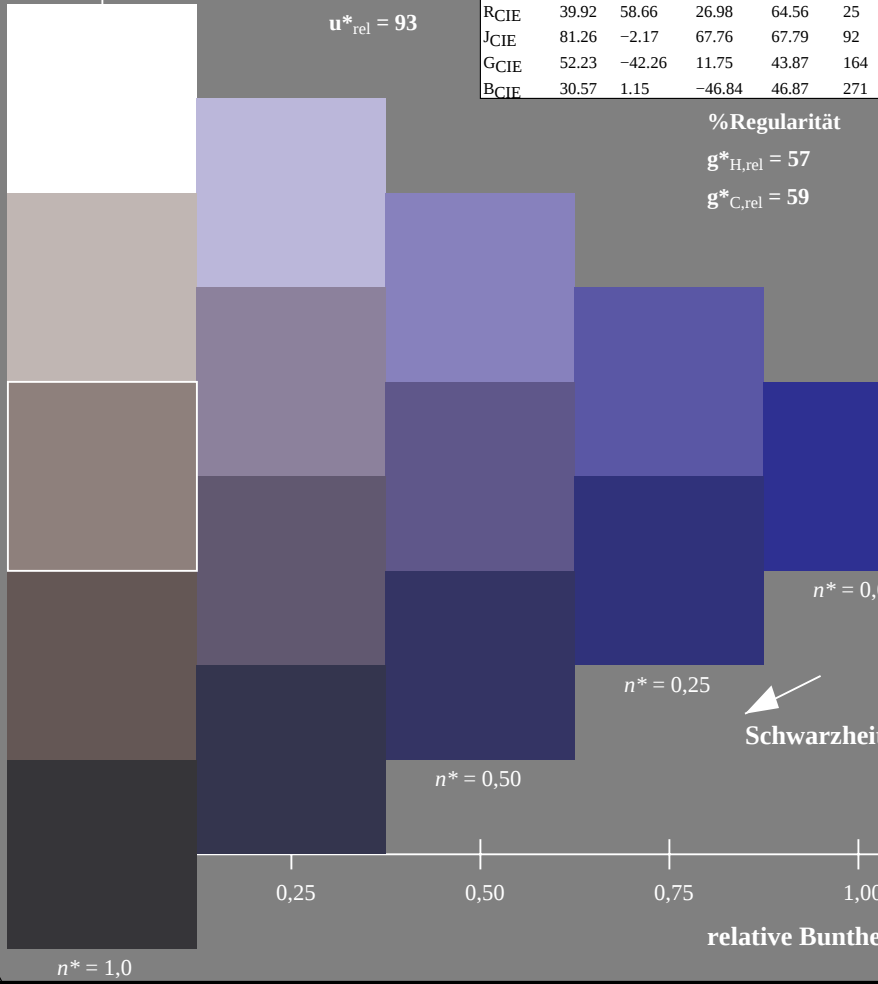
Eingabe: Farbmimetrisches Reflexions-System ORS18

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

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

Dreiecks-Helligkeit

1,00



UG410-7, 5 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (links)

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18

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

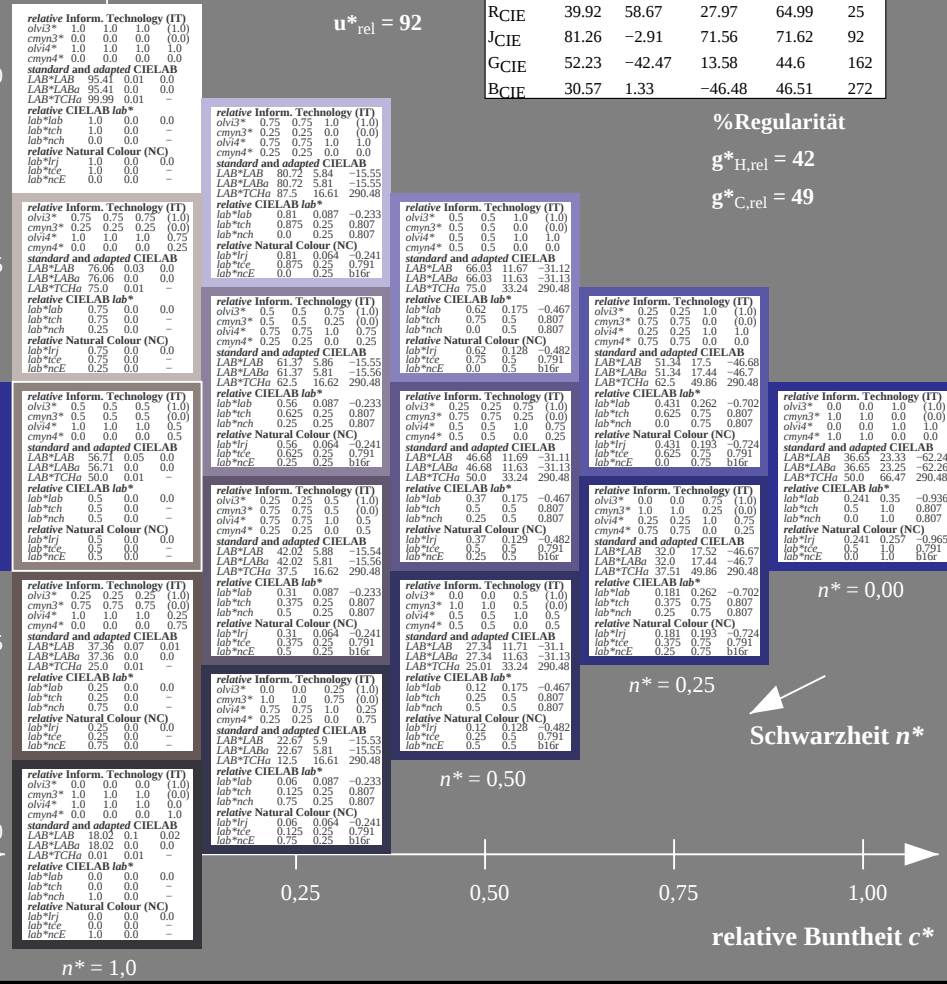
Ausgabe: Farbmimetrisches Reflexions-System MRS18a

für Buntton $h^* = lab^*h = 290/360 = 0.807$
 lab^*tch und lab^*nch

D65: Buntton B
LCH*Ma: 37 66 290
rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit

1,00



5 stufige Reihen für konstanten CIELAB Buntton 290/360 = 0.807 (rechts)

Input: cmy0* setcmykcolor

Output: no change compared to input

Eingabe: Farbmétrisches Reflexions-System ORS18

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

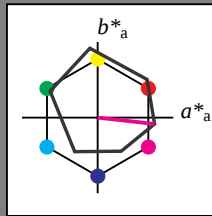
lab*tch und lab*nch

D65: Buntton M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit



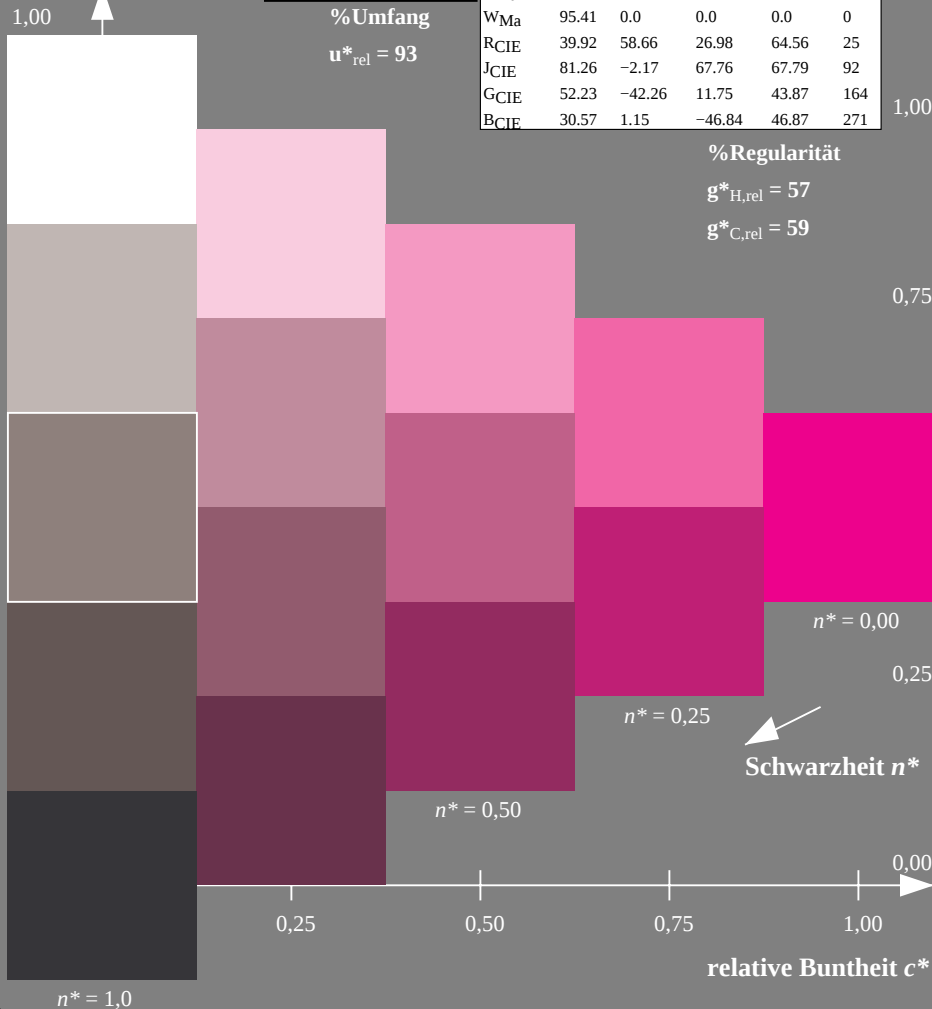
%Umfang

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

2 **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

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


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

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

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

Ausgabe: Farbmétrisches Reflexions-System MRS18a

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

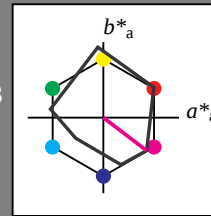
lab*tch und lab*nch

D65: Buntton B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit

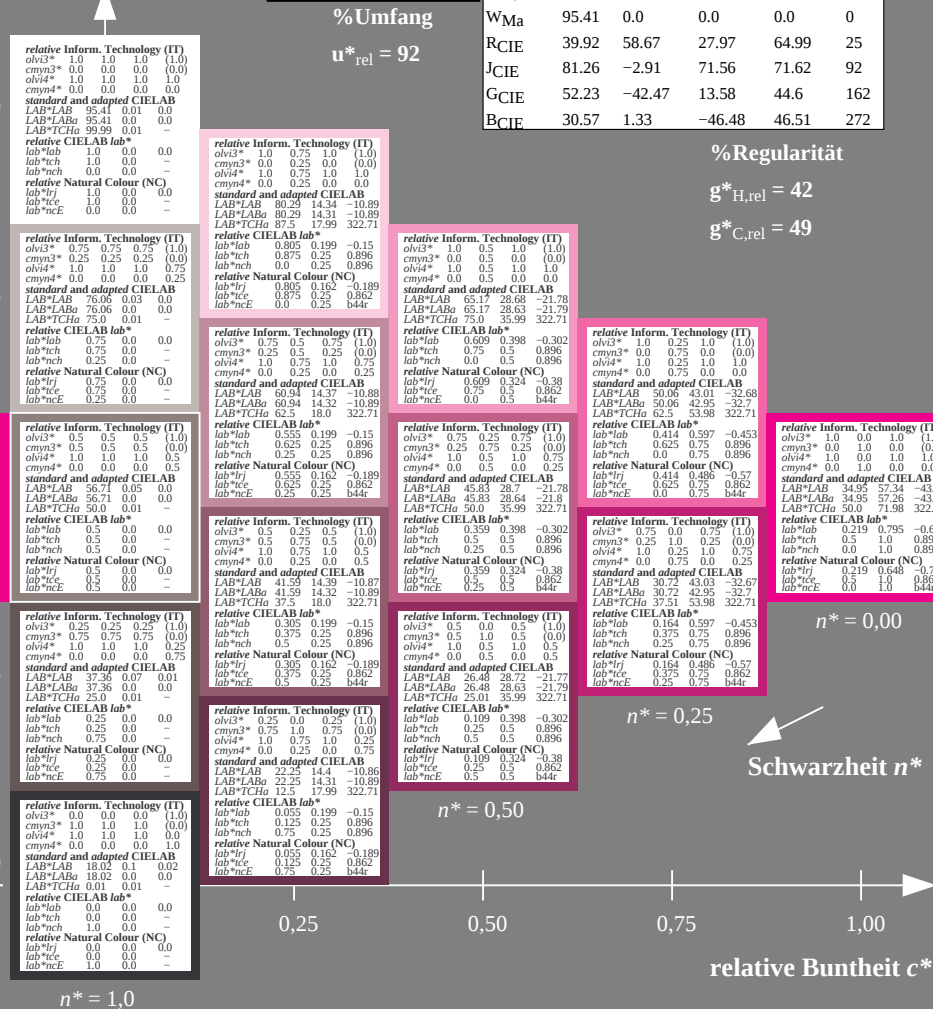


%Umfang

$$\mathbf{u}_{\text{rel}}^* = 92$$
MRS18a; adaptierte CIELAB-Daten

	$L^*=L_a^*$	a_a^*	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50B _{Ma}	45.03	-36.65	-27.13	45.61	217
B _{Ma}	36.65	23.26	-62.27	66.49	290
B50R _{Ma}	34.94	57.27	-43.6	71.99	323
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.67	27.97	64.99	25
J _{CIE}	81.26	-2.91	71.56	71.62	92
G _{CIE}	52.23	-42.47	13.58	44.6	162
B _{CIE}	30.57	1.33	-46.48	46.51	272

%Regularität

$$g^*_{H,rel} = 42$$
$$g^*_{C,rel} = 49$$
5 stufige Reihen für konstanten CIELAB Buntton $323/360 = 0.896$ (rechts)

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

10 Bunttöneoutput: *no change compared to input*

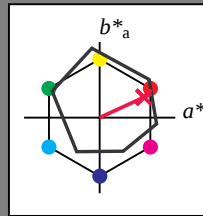
Eingabe: Farbmimetrisches Reflexions-System ORS18

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



ORS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

1,00

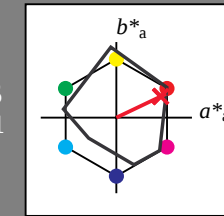
Ausgabe: Farbmimetrisches Reflexions-System MRS18a

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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

%Regularität

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

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

0,75

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	1.0
cmyn3*	0.0	0.25	0.224	0.0	0.0
olvi4*	1.0	1.0	1.0	1.0	1.0
cmyn4*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	95.41	0.01	0.0	0.0	0.0
LAB*LABa	95.41	0.01	0.0	0.0	0.0
LAB*LABb	95.41	0.01	0.0	0.0	0.0
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*tch	1.0	0.0	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0	0.0	0.0
lab*trj	1.0	0.0	0.0	0.0	0.0
lab*tce	1.0	0.0	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.776	1.0	1.0
cmyn3*	0.0	0.25	0.224	0.0	0.0
olvi4*	1.0	0.75	0.776	1.0	1.0
cmyn4*	0.0	0.25	0.224	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	83.58	16.47	7.84	7.84	7.84
LAB*LABa	83.58	16.47	7.84	7.84	7.84
LAB*LABb	83.58	16.47	7.84	7.84	7.84
relative CIELAB lab*					
lab*lab	0.847	0.226	0.108	0.108	0.108
lab*tch	0.875	0.25	0.071	0.071	0.071
lab*nch	0.0	0.5	0.552	0.552	0.552
lab*trj	0.847	0.25	0.0	0.0	0.0
lab*tce	0.875	0.25	0.0	0.0	0.0
lab*nce	0.0	0.5	0.552	0.552	0.552

relative Inform. Technology (IT)					
olvi3*	1.0	0.5	0.552	1.0	1.0
cmyn3*	0.0	0.5	0.552	0.0	0.0
olvi4*	1.0	0.5	0.552	1.0	1.0
cmyn4*	0.0	0.5	0.552	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	71.76	32.94	15.69	15.69	15.69
LAB*LABa	71.76	32.94	15.69	15.69	15.69
LAB*LABb	71.76	32.94	15.69	15.69	15.69
relative CIELAB lab*					
lab*lab	0.694	0.451	0.215	0.215	0.215
lab*tch	0.75	0.5	0.071	0.071	0.071
lab*nch	0.0	0.5	0.071	0.071	0.071
lab*trj	0.694	0.5	0.0	0.0	0.0
lab*tce	0.75	0.5	0.0	0.0	0.0
lab*nce	0.0	0.5	0.071	0.071	0.071

relative Inform. Technology (IT)					
olvi3*	1.0	0.25	0.328	1.0	1.0
cmyn3*	0.0	0.75	0.672	0.0	0.0
olvi4*	1.0	0.25	0.328	1.0	1.0
cmyn4*	0.0	0.75	0.672	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	59.93	49.4	23.54	23.54	23.54
LAB*LABa	59.93	49.4	23.54	23.54	23.54
LAB*LABb	59.93	49.4	23.54	23.54	23.54
relative CIELAB lab*					
lab*lab	0.542	0.677	0.323	0.323	0.323
lab*tch	0.625	0.75	0.071	0.071	0.071
lab*nch	0.0	0.75	0.071	0.071	0.071
lab*trj	0.542	0.75	0.0	0.0	0.0
lab*tce	0.625	0.75	0.0	0.0	0.0
lab*nce	0.0	0.75	0.071	0.071	0.071

relative Inform. Technology (IT)					
olvi3*	1.0	0.0	0.103	1.0	1.0
cmyn3*	0.0	1.0	0.897	0.0	0.0
olvi4*	1.0	0.0	0.104	1.0	1.0
cmyn4*	0.0	1.0	0.896	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	48.11	65.8	31.37	31.37	31.37
LAB*LABa	48.11	65.8	31.37	31.37	31.37
LAB*LABb	48.11	65.8	31.37	31.37	31.37
relative CIELAB lab*					
lab*lab	0.389	0.902	0.43	0.43	0.43
lab*tch	0.5	1.0	0.071	0.071	0.071
lab*nch	0.0	1.0	0.071	0.071	0.071
lab*trj	0.389	1.0	0.0	0.0	0.0
lab*tce	0.5	1.0	0.0	0.0	0.0
lab*nce	0.0	1.0	0.071	0.071	0.071

$n^* = 0.00$

0,25

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	1.0	1.0
cmyn3*	0.75	0.75	0.75	0.0	0.0
olvi4*	1.0	1.0	1.0	0.0	0.0
cmyn4*	0.0	0.0	0.0	0.75	0.75
standard and adapted CIELAB					
LAB*LAB	37.36	0.07	0.01	0.01	0.01
LAB*LABa	37.36	0.07	0.01	0.01	0.01
LAB*LABb	37.36	0.07	0.01	0.01	0.01
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0	0.0	0.0
lab*tch	0.25	0.0	0.0	0.0	0.0
lab*nch	0.75	0.0	0.0	0.0	0.0
lab*trj	0.25	0.0	0.0	0.0	0.0
lab*tce	0.25	0.0	0.0	0.0	0.0
lab*nce	0.75	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.552	1.0	1.0
cmyn3*	0.5	0.5	0.552	0.0	0.0
olvi4*	1.0	0.5	0.552	0.5	0.5
cmyn4*	0.0	0.5	0.552	0.5	0.5
standard and adapted CIELAB					
LAB*LAB	44.88	16.52	7.86	7.86	7.86
LAB*LABa	44.88	16.52	7.86	7.86	7.86
LAB*LABb	44.88	16.52	7.86	7.86	7.86
relative CIELAB lab*					
lab*lab	0.347	0.226	0.108	0.108	0.108
lab*tch	0.375	0.25	0.071	0.071	0.071
lab*nch	0.25	0.25	0.071	0.071	0.071
lab*trj	0.347	0.25	0.0	0.0	0.0
lab*tce	0.375	0.25	0.0	0.0	0.0
lab*nce	0.25	0.25	0.071	0.071	0.071

relative Inform. Technology (IT)					
olvi3*	0.5	0.0	0.048	1.0	1.0
cmyn3*	0.5	1.0	0.948	0.0	0.0
olvi4*	1.0	0.5	0.552	0.5	0.5
cmyn4*	0.0	0.5	0.552	0.5	0.5
standard and adapted CIELAB					
LAB*LAB	33.07	32.9	15.69	15.69	15.69
LAB*LABa	33.07	32.9	15.69	15.69	15.69
LAB*LABb	33.07	32.9	15.69	15.69	15.69
relative CIELAB lab*					
lab*lab	0.195	0.451	0.215	0.215	0.215
lab*tch	0.25	0.5	0.071	0.071	0.071
lab*nch	0.5	0.5	0.071	0.071	0.071
lab*trj	0.195	0.5	0.0	0.0	0.0
lab*tce	0.25	0.5	0.0	0.0	0.0
lab*nce	0.5	0.5	0.071	0.071	0.071

relative Inform. Technology (IT)					
olvi3*	0.75	0.0	0.077	1.0	1.0
cmyn3*	0.25	1.0	0.922	0.0	0.0
olvi4*	1.0	0.25	0.328	0.75	0.75
cmyn4*	0.0	0.75	0.672	0.25	0.25
standard and adapted CIELAB					
LAB*LAB	40.59	49.42	23.54	23.54	23.54
LAB*LABa	40.59	49.42	23.54	23.54	23.54
LAB*LABb	40.59	49.42	23.54	23.54	23.54
relative CIELAB lab*					
lab*lab	0.292	0.677	0.323	0.323	0.323
lab*tch	0.375	0.75	0.071	0.071	0.071
lab*nch	0.25	0.75	0.071	0.071	0.071
lab*trj	0.292	0.75	0.0	0.0	0.0
lab*tce	0.375	0.75	0.0	0.0	0.0
lab*nce	0.25	0.75	0.071	0.071	0.071

Diagram illustrating the relationship between Schwarzheit n^* and relative Helligkeit c^* . The horizontal axis represents relative Helligkeit c^* , with a tick mark at 1,00. The vertical axis represents Schwarzheit n^* , with a value of 0,00 indicated at the top. An arrow points from the text 'Schwarzheit n^* ' towards the axis.

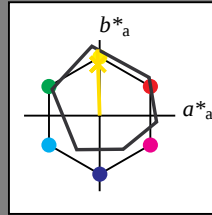
Eingabe: Farbmatisches Reflexions-System ORS18

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

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

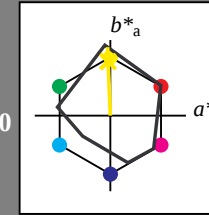
Ausgabe: Farbmatisches Reflexions-System MRS18a

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 92$

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

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

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

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

BAM-Prüfvorlage UG41; Farbmatrik-Systeme ORS18 & MRS18a

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

input: $cmy0^* setcmykcolor$

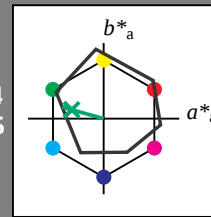
output: no change compared to input

Eingabe: Farbmimetrisches Reflexions-System ORS18

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

$n^* = 0,25$

$n^* = 0,50$

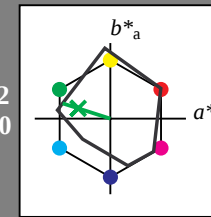
relative Buntheit c^*

Ausgabe: Farbmimetrisches Reflexions-System MRS18a

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

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

Dreiecks-Helligkeit



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

%Regularität

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

0,25

0,50

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

UG410-7, 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 UG41; Farbmimetrik-Systeme ORS18 & MRS18a; Input: *cmY0* setcmykcolor*

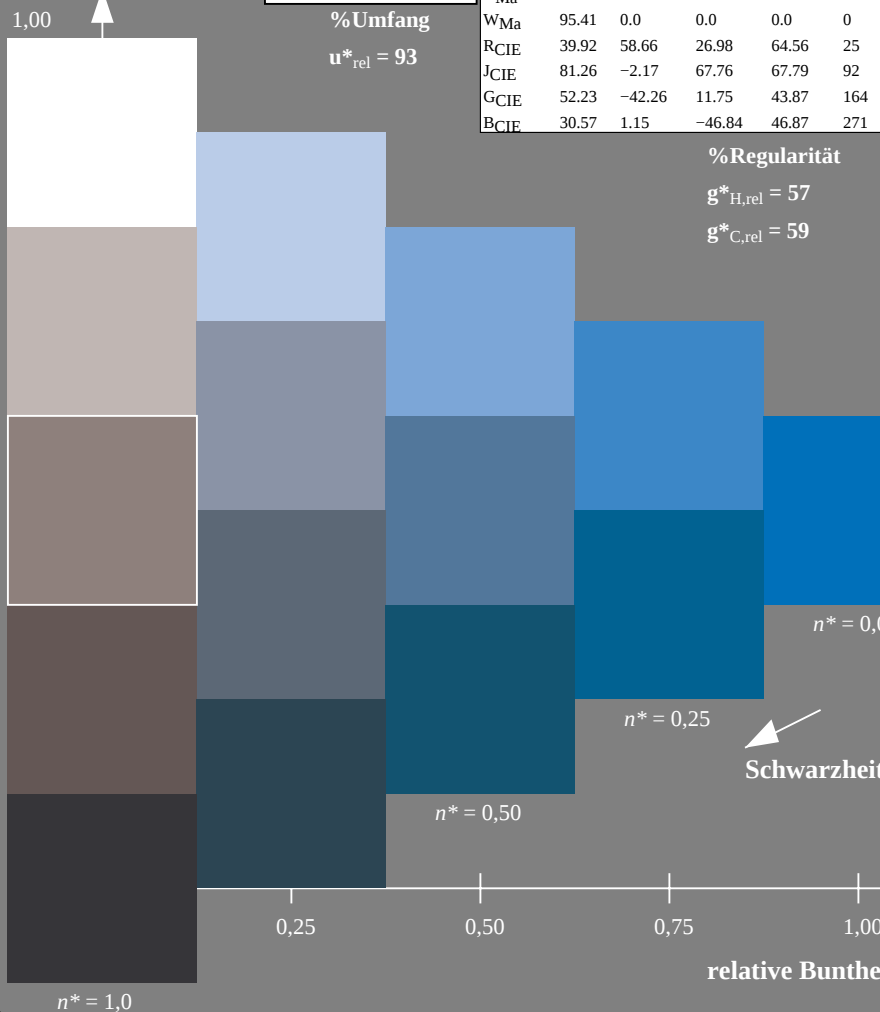
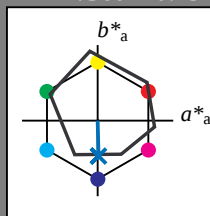
D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne; Output: *no change compared to input*

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



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

BAM-Prüfvorlage UG41; Farbmimetrik-Systeme ORS18 & MRS18a

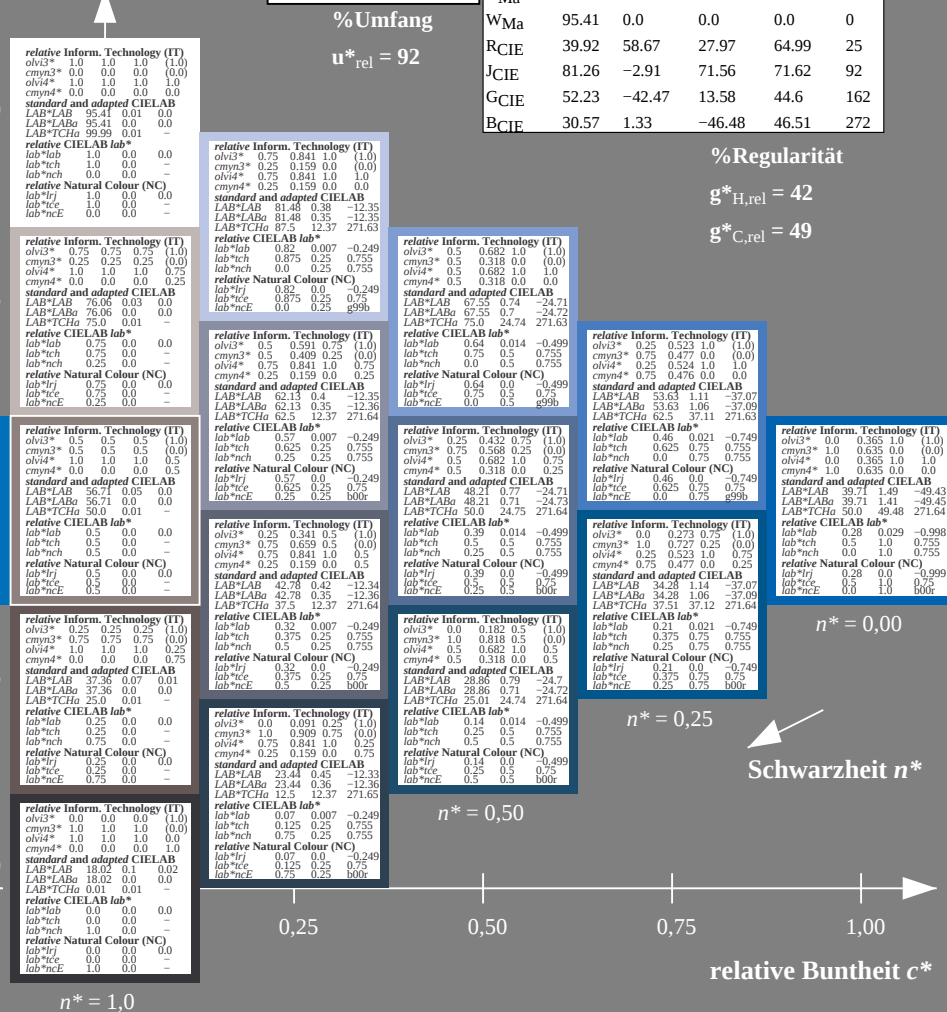
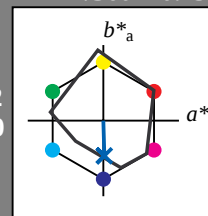
D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne

Ausgabe: Farbmimetrisches Reflexions-System MRS18a

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

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

Dreiecks-Helligkeit



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

input: cmy0* setcmykcolor

output: no change compared to input