

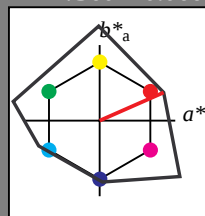
Eingabe: Farbmimetrisches Reflexions-System NCS11

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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 _{Ma}	59.47	-80.6	-33.45	87.28	203	
B _{Ma}	49.01	3.65	-81.19	81.28	273	
B50R _{Ma}	44.06	106.09	-73.93	129.32	325	
N _{Ma}	10.99	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,00

$n^* = 1,0$

relative Buntheit c^*

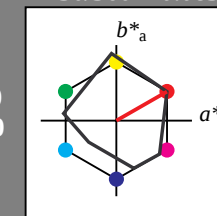
Ausgabe: Farbmimetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 30/360 = 0.083$

lab^*tch und lab^*nch

D65: Buntton R
LCH*Ma: 50 77 30
rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 91$

1,00

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,00

$n^* = 1,0$

relative Buntheit c^*

MRS18; adaptierte CIELAB-Daten						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	49.63	66.96	38.37	77.18	30	
JMa	90.7	-6.36	88.75	88.98	94	
GMa	52.11	-69.73	9.44	70.37	172	
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218	
B _{Ma}	36.65	23.19	-63.05	67.18	290	
B50R _{Ma}	34.94	57.17	-44.26	72.31	322	
N _{Ma}	18.01	0.0	0.0	0.0	0	
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,00

$n^* = 1,0$

relative Buntheit c^*

UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.066 (links)

5 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (rechts)

BAM-Prüfvorlage UG48; Farbmimetrik-Systeme NCS11a & MRS18; Input: $cmY0^* set cmykcolor$

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

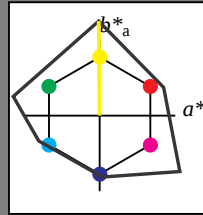
Eingabe: Farbmimetrisches Reflexions-System NCS11

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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 _{Ma}	59.47	-80.6	-33.45	87.28	203	
B _{Ma}	49.01	3.65	-81.19	81.28	273	
B50R _{Ma}	44.06	106.09	-73.93	129.32	325	
N _{Ma}	10.99	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

relative Buntheit c^*

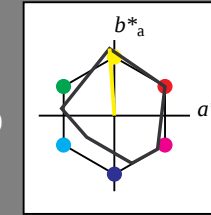
Ausgabe: Farbmimetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 94/360 = 0.261$

lab^*tch und lab^*nch

D65: Buntton J
LCH*Ma: 91 89 94
rgb*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 91$

MRS18; adaptierte CIELAB-Daten						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	49.63	66.96	38.37	77.18	30	
JMa	90.7	-6.36	88.75	88.98	94	
GMa	52.11	-69.73	9.44	70.37	172	
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218	
B _{Ma}	36.65	23.19	-63.05	67.18	290	
B50R _{Ma}	34.94	57.17	-44.26	72.31	322	
N _{Ma}	18.01	0.0	0.0	0.0	0	
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,25

0,50

0,75

relative Buntheit c^*

UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.252 (links)

5 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.261 (rechts)

BAM-Prüfvorlage UG48; Farbmimetrik-Systeme NCS11a & MRS18; Input: *cmy0* setcmykcolor*

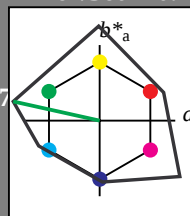
D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne; Output: *no change compared to input*

Eingabe: Farbmimetrisches Reflexions-System NCS11

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

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

Dreiecks-Helligkeit



1,00

%Umfang

$u^*_{rel} = 149$

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 _{Ma}	59.47	-80.6	-33.45	87.28	203	
B _{Ma}	49.01	3.65	-81.19	81.28	273	
B50R _{Ma}	44.06	106.09	-73.93	129.32	325	
N _{Ma}	10.99	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

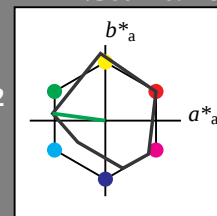
%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

%Umfang



1,00

%Umfang

$u^*_{rel} = 91$

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	-0.97	4.75			
LAB*LABa	95.41	0.0	0.0			
LAB*LABb	95.41	0.0	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			

standard and adapted CIELAB						
LAB*LAB	95.41	-0.97	4.75			
LAB*LABa	95.41	0.0	0.0			
LAB*LABb	95.41	0.0	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	-0.6	3.44			
LAB*LABa	76.06	0.0	0.0			
LAB*LABb	76.06	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.75	0.0	0.0			
lab*tch	0.75	0.0	0.0			
lab*nch	0.0	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	0.0	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	-0.23	2.14			
LAB*LABa	56.71	0.0	0.0			
LAB*LABb	56.71	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.5	0.0	0.0			
lab*tch	0.5	0.0	0.0			
lab*nch	0.0	0.0	0.0			
relative Natural Colour (NC)						
lab*trj	0.5	0.0	0.0			
lab*tce	0.5	0.0	0.0			
lab*nce	0.0	0.0	0.0			

relative Inform. Technology (IT)						
olvi3*	0.25	0.25	0.25	(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	37.36	0.13	0.83			
LAB*LABa	37.36	0.0	0.0			
LAB*LABb	37.36	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.25	0.0	0.0			
lab*tch	0.25	0.0	0.0			
lab*nch	0.0	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	0.0	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	0.0	0.0			
LAB*LABa	18.02	0.0	0.0			
LAB*LABb	18.02	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	0.0	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			

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	0.01	0.0	0.0			
LAB*LABa	0.01	0.0	0.0			
LAB*LABb	0.01	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	0.0	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			

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	0.01	0.0	0.0			
LAB*LABa	0.01	0.0	0.0			
LAB*LABb	0.01	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	0.0	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			

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	0.01	0.0	0.0			
LAB*LABa	0.01	0.0	0.0			
LAB*LABb	0.01	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	0.0	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			

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	0.01	0.0	0.0			
LAB*LABa	0.01	0.0	0.0			
LAB*LABb	0.01	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	0.0	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			

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	0.01	0.0	0.0			
LAB*LABa	0.01	0.0	0.0			
LAB*LABb	0.01	0.0	0.0			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	0.0	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			

relative Inform. Technology (IT)

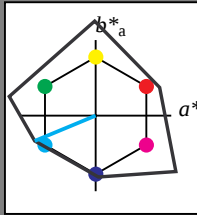
Eingabe: Farbmatisches Reflexions-System NCS11

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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 _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

0,25

0,00

0,25

0,50

0,00

0,25

0,50

0,00

Schwarzheit n^*

relative Buntheit c^*

UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton 203/360 = 0.563 (links)

BAM-Prüfvorlage UG48; Farbmatrik-Systeme NCS11a & MRS18

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

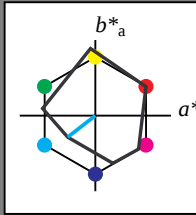
Ausgabe: Farbmatisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 218/360 = 0.605$

lab^*tch und lab^*nch

D65: Buntton G50B
LCH*Ma: 45 46 218
rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit



MRS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

0,25

0,00

0,25

0,50

0,00

0,25

0,50

0,00

Schwarzheit n^*

relative Buntheit c^*

5 stufige Reihen für konstanten CIELAB Buntton 218/360 = 0.605 (rechts)

Input: $cmY0^* set cmykcolor$

Output: $no change compared to input$

Eingabe: Farbmimetrisches Reflexions-System NCS11

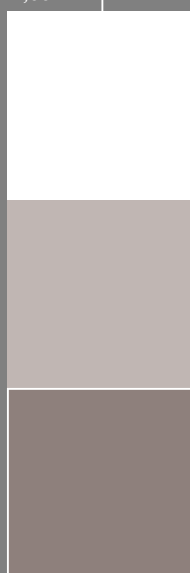
für Buntton $h^* = lab^*h = 273/360 = 0.757$

lab^*tch und lab^*nch

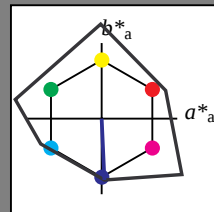
D65: Buntton B
LCH*Ma: 49 81 273
rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit

1,00



UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (links)



%Umfang

$u^*_{rel} = 149$

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 _{Ma}	59.47	-80.6	-33.45	87.28	203	
B _{Ma}	49.01	3.65	-81.19	81.28	273	
B50R _{Ma}	44.06	106.09	-73.93	129.32	325	
N _{Ma}	10.99	0.0	0.0	0.0	0	
W _{Ma}	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

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	-0.97	4.75			
LAB*Lab	95.41	0.0	0.0			
LAB*TCha	95.99	0.01	0.0			
relative CIELAB lab*						
lab*lab	1.0	0.0	0.0			
lab*tch	1.0	0.0	0.0			
lab*nch	0.0	0.0	0.0			
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 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	0.5		
cmyn4*	0.0	0.0	0.0	0.5		
standard and adapted CIELAB						
LAB*LAB	76.06	-0.6	3.44			
LAB*Lab	76.06	0.0	0.0			
LAB*TCha	75.0	0.01	0.0			
relative CIELAB lab*						
lab*lab	0.75	0.0	0.0			
lab*tch	0.75	0.0	0.0			
lab*nch	0.25	0.0	0.0			
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 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			

$n^* = 1,0$

Ausgabe: Farbmimetrisches Reflexions-System MRS18

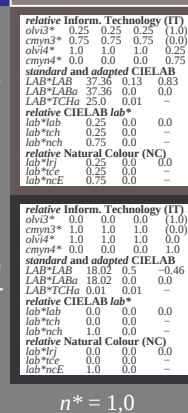
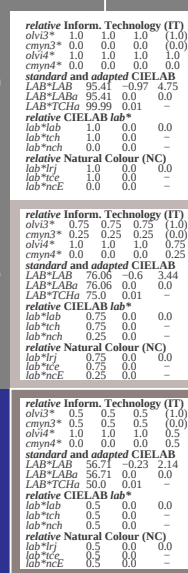
für Buntton $h^* = lab^*h = 290/360 = 0.806$

lab^*tch und lab^*nch

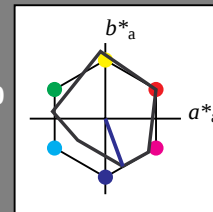
D65: Buntton B
LCH*Ma: 37 67 290
rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit

1,00



5 stufige Reihen für konstanten CIELAB Buntton 290/360 = 0.806 (rechts)



%Umfang

$u^*_{rel} = 91$

MRS18; adaptierte CIELAB-Daten						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	49.63	66.96	38.37	77.18	30	
JMa	90.7	-6.36	88.75	88.98	94	
GMa	52.11	-69.73	9.44	70.37	172	
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218	
B _{Ma}	36.65	23.19	-63.05	67.18	290	
B50R _{Ma}	34.94	57.17	-44.26	72.31	322	
N _{Ma}	18.01	0.0	0.0	0.0	0	
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

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	0.5		
cmyn4*	0.0	0.0	0.0	0.5		
standard and adapted CIELAB						
LAB*LAB	80.72	5.1	-11.98			
LAB*Lab	80.72	5.79	-15.75			
LAB*TCha	87.5	16.79	290.19			
relative CIELAB lab*						
lab*lab	0.75	0.0	0.0			
lab*tch	0.75	0.0	0.0			
lab*nch	0.25	0.0	0.0			
lab*trj	0.75	0.0	0.0			
lab*tce	0.75	0.0	0.0			
lab*nce	0.25	0.0	0.0			
relative 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	0.5		
cmyn4*	0.0	0.0	0.0	0.5		
standard and adapted CIELAB						
LAB*LAB	66.03	11.17	-28.74			
LAB*Lab	66.03	11.59	-31.51			
LAB*TCha	75.0	33.59	290.19			
relative CIELAB lab*						
lab*lab	0.5	0.0	0.0			
lab*tch	0.5	0.0	0.0			
lab*nch	0.5	0.0	0.0			
lab*trj	0.5	0.0	0.0			
lab*tce	0.5	0.0	0.0			
lab*nce	0.5	0.0	0.0			
relative 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			

$n^* = 0,00$

relative Inform. Technology (IT)						
olvi3*	0.25	0.25	0.25	(1.0)		
cmyn3*	0.75	0.75	0.75	0.0		
olvi4*	1.0	1.0	1.0	0.5		
cmyn4*	0.0	0.0	0.0	0.5		
standard and adapted CIELAB						
LAB*LAB	51.34	17.25	-45.49			
LAB*Lab	51.34	17.39	-47.28			
LAB*TCha	62.5	50.38	290.19			
relative CIELAB lab*						
lab*lab	0.25	0.0	0.0			
lab*tch	0.25	0.0	0.0			
lab*nch	0.75	0.0	0.0			
lab*trj	0.25	0.0	0.0			
lab*tce	0.25	0.0	0.0			
lab*nce	0.75	0.0	0.0			
relative 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*	0.25	0.25	0.25	0.5		
cmyn4*	0.75	0.75	0.75	0.0		
standard and adapted CIELAB						
LAB*LAB	32.0	17.62	-46.8			
LAB*Lab	32.0	17.39	-47.28			
LAB*TCha	37.51	50.38	290.19			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	1.0	0.0	0.0			
lab*trj	0.0	0.0	0.0			
lab*tce	0.0	0.0	0.0			
lab*nce	1.0	0.0	0.0			
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			

$n^* = 0,25$

relative Inform. Technology (IT)						
olvi3*	0.0	0.0	0.0	(1.0)		
cmyn3*	1.0	1.0	1.0	0.0		
olvi4*	0.25	0.25	0.25	0.5		
cmyn4*	0.75	0.75	0.75	0.0		
standard and adapted CIELAB						
LAB*LAB	36.65	23.33	-62.24			
LAB*Lab	36.65	23.18	-63.03			
LAB*TCha	50.0	67.17	290.19			
relative CIELAB lab*						
lab*lab	0.0	0.0	0.0			
lab*tch	0.0	0.0	0.0			
lab*nch	1.0	0.0	0.0			
lab*trj	0.0	0.0	0.0			
lab*tce	0.0	0.0	0.0			
lab*nce	1.0	0.0	0.0			
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			

relative Inform. Technology (IT)						
olvi3*	0.0	0.0	0.0	(1.0)		
cmyn3*	1.0	1.0	1.0	0.0		
olvi4*	0.25	0.25	0.25	0.5		
cmyn4*	0.75	0.75	0.75	0.0		
standard and adapted CIELAB						
LAB*LAB	32.0	17.62	-46.8			
LAB*Lab	32.0	17.39	-47.28			
LAB*TCha	37.51	50.38	290.19			
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.			
relative Natural colour (NC)						
lab*lrj	0.181	0.193	-0.72			
lab*tce	0.375	0.32	0.791			
lab*nce	0.25	0.75	blfr			

$n^* = 0.25$

+

0.75

relative colour

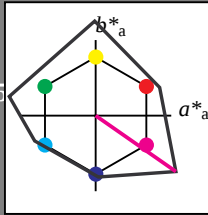
Eingabe: Farbmimetrisches Reflexions-System NCS11

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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 _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

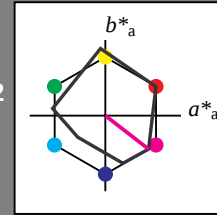
Ausgabe: Farbmimetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 322/360 = 0.895$

lab^*tch und lab^*nch

D65: Buntton B50R
LCH*Ma: 35 72 322
rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit



MRS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton 325/360 = 0.903 (links)

5 stufige Reihen für konstanten CIELAB Buntton 322/360 = 0.895 (rechts)

BAM-Prüfvorlage UG48; Farbmimetrik-Systeme NCS11a & MRS18

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne
input: *cmY0* setcmYcolor*
output: *no change compared to input*

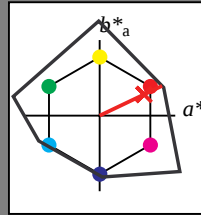
Eingabe: Farbmimetrisches Reflexions-System NCS11

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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 _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit c^*

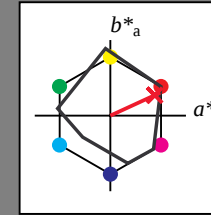
Ausgabe: Farbmimetrisches Reflexions-System MRS18

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 91$

MRS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

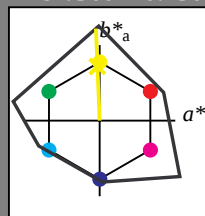
Eingabe: Farbmimetrisches Reflexions-System NCS11

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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 _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

relative Buntheit c^*

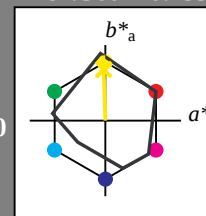
Ausgabe: Farbmimetrisches Reflexions-System MRS18

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

lab^*tch und lab^*nch

D65: Buntton J
LCH*Ma: 89 86 92
rgb*Ma: 1.0 0.95 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 91$

MRS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

relative Buntheit c^*

UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (rechts)

BAM-Prüfvorlage UG48; Farbmimetrik-Systeme NCS11a & MRS18

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

Input: $cmy0^* set cmykcolor$

Output: no change compared to input

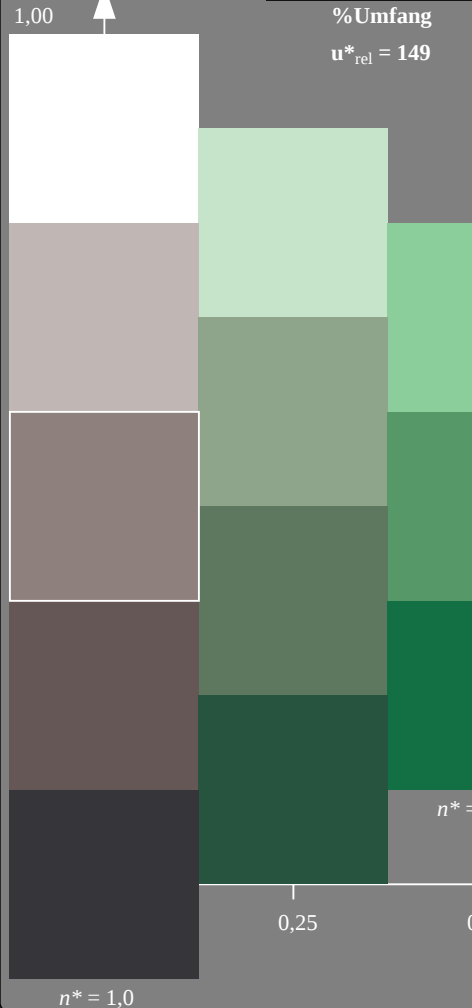
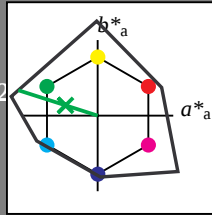
Eingabe: Farbmimetrisches Reflexions-System NCS11

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit



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 _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

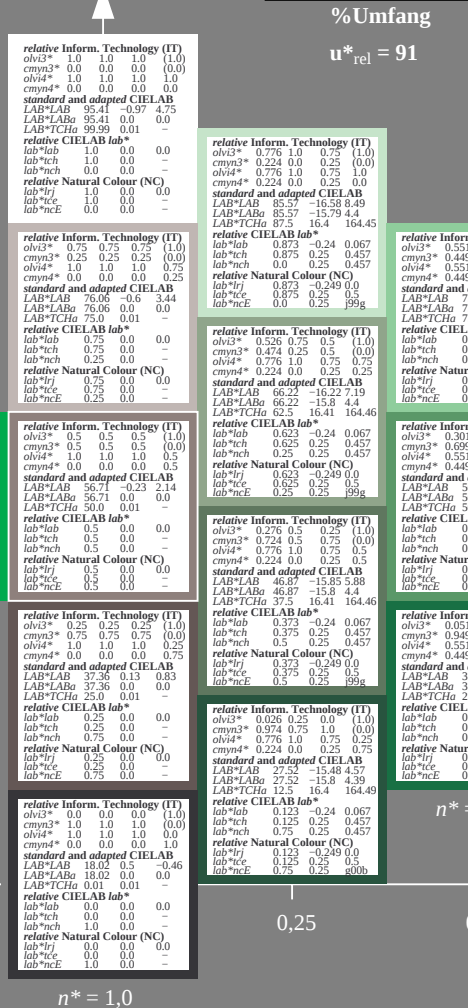
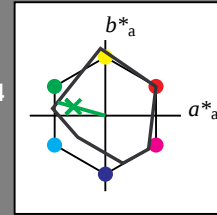
Ausgabe: Farbmimetrisches Reflexions-System MRS18

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

lab^*tch und lab^*nch

D65: Buntton G
LCH*Ma: 56 66 164
rgb*Ma: 0.1 1.0 0.0

Dreiecks-Helligkeit



MRS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	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

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

5 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (rechts)

BAM-Prüfvorlage UG48; Farbmimetrik-Systeme NCS11a & MRS18

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöne
input: *cmY0* setcmykcolor*
output: *no change compared to input*

Eingabe: Farbmétrisches Reflexions-System NCS11

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

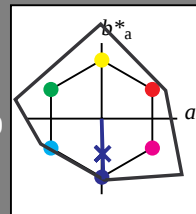
lab*tch und lab*nch

D65: Buntton B

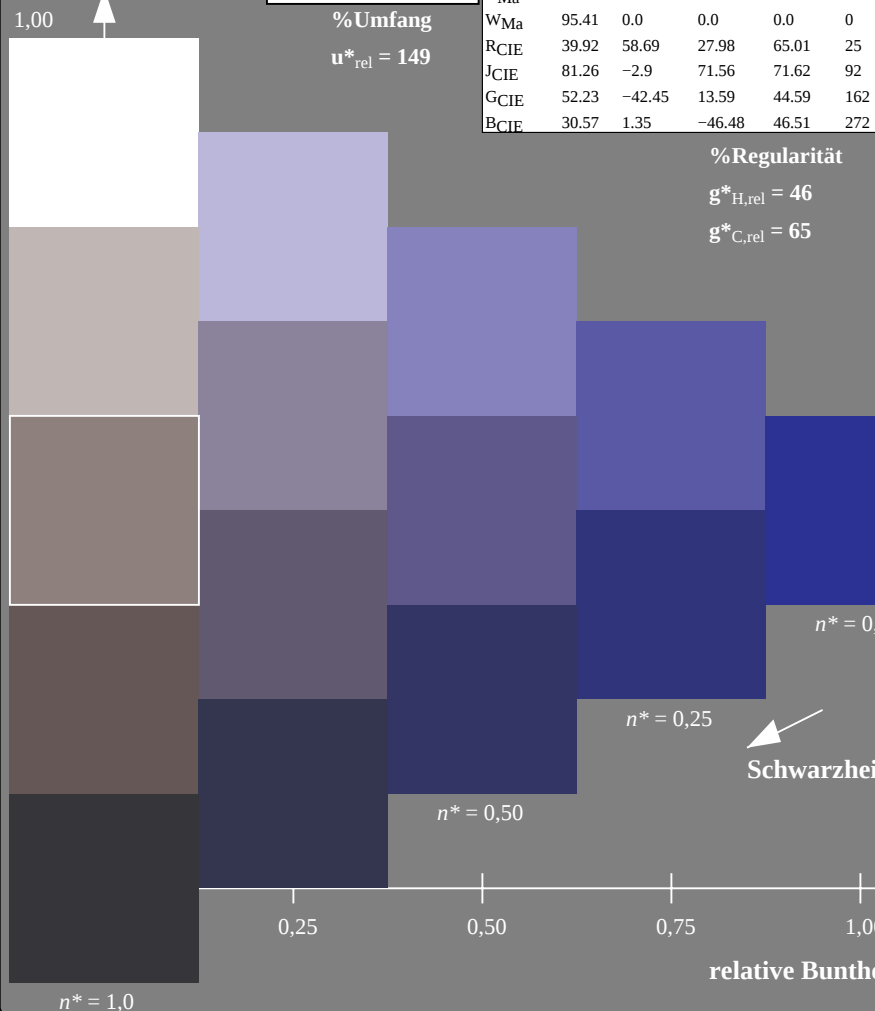
LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit



%Umfang

$$u_{n-1}^* = 149$$


UG480-7, 5 stufige Reihen für konstanten CIELAB Buntton $272/360 = 0.755$ (links)

BAM-Prüfvorlage UG48; Farbmeter-Systeme NCS11a & MRS18 Input: *cmy0* setcmykcolor*

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

Ausgabe: Farbmétrisches Reflexions-System MRS18

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

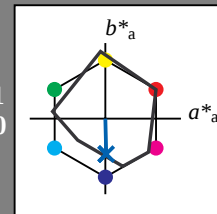
*lab*tch* und *lab*nch*

D65: Buntton B

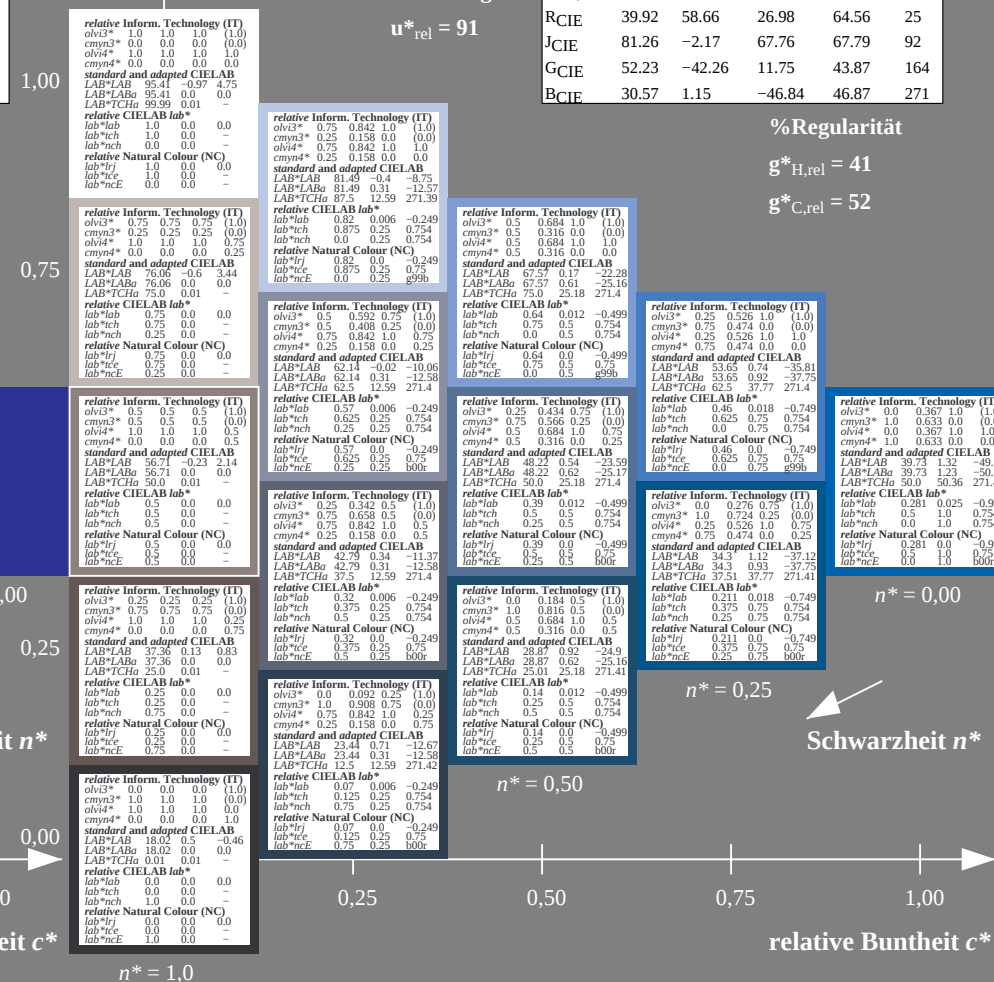
LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

Dreiecks-Helligkeit



%Umfang

$$u^*_{\text{max}} = 91$$
5 stufige Reihen für konstanten CIELAB Buntton $271/360 = 0.754$ (rechts)

1a & MRS18input: *cmy0** *setcmykcolor*

10 Bunttöneoutput: *no change compared to input*