



Eingabe: Farbmétrisches Reflexions-System ORS18

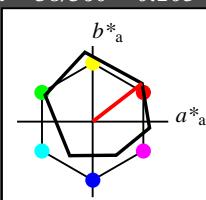
für Bunton $h^* = lab^*h = 38/360 = 0.105$
 lab^*tch und lab^*nch

D65: Bunton O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 93$

1,00

0,75

0,50

0,25

0,00

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG42/>

Technische Information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_{ab}	b^*_{ab}	$C^*_{ab,a}$	$h^*_{ab,a}$
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

Ausgabe: Farbmétrisches Reflexions-System NRS11

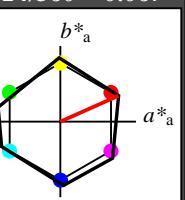
für Bunton $h^* = lab^*h = 24/360 = 0.067$
 lab^*tch und lab^*nch

D65: Bunton R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

$n^* = 1,0$

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

NRS11; adaptierte CIELAB-Daten

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

%Regularität

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

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

1,00

0,75

0,50

0,25

$n^* = 1,0$

5stufige Reihen für konstanten CIELAB Bunton 38/360 = 0.105 (links)

	$L^*=L^*_a$	a^*_{ab}	b^*_{ab}	$C^*_{ab,a}$	$h^*_{ab,a}$
relative Inform. Technology (IT)	olv3*	1.0	1.0	(1.0)	
cmy3*	0.0	0.0	(0.0)		
olv4*	1.0	1.0	0.0		
cmy4*	0.0	0.0	0.0		
standard and adapted CIELAB					
LAB*LAB	0.01	0.01			
LAB*TChMa	95.41	0.0			
LAB*TChRa	99.99	0.01			
relative CIELAB lab*					
lab*tch	0.0	0.0			
lab*nch	0.0	0.0			
lab*irj	0.0	0.0			
lab*ice	0.0	0.0			
lab*nE	0.0	0.0			
relative Inform. Technology (IT)	olv3*	1.0	0.75	0.75 (1.0)	
cmy3*	0.0	0.5	0.5 (0.0)		
olv4*	1.0	0.75	1.0		
cmy4*	0.0	0.25	0.25		
standard and adapted CIELAB					
LAB*LAB	74.31	0.02	0.0		
LAB*TChRa	74.31	0.01	0.0		
relative CIELAB lab*					
lab*tch	0.75	0.0	0.0		
lab*nch	0.75	0.0	0.0		
lab*irj	0.75	0.0	0.0		
lab*ice	0.75	0.0	0.0		
lab*nE	0.75	0.0	0.0		
relative Inform. Technology (IT)	olv3*	0.75	0.75	0.75 (1.0)	
cmy3*	0.25	0.25	0.25 (0.0)		
olv4*	1.0	1.0	0.75		
cmy4*	0.0	0.0	0.5		
standard and adapted CIELAB					
LAB*LAB	74.31	0.02	0.0		
LAB*TChRa	74.31	0.01	0.0		
relative CIELAB lab*					
lab*tch	0.75	0.0	0.0		
lab*nch	0.75	0.0	0.0		
lab*irj	0.75	0.0	0.0		
lab*ice	0.75	0.0	0.0		
lab*nE	0.75	0.0	0.0		
relative Inform. Technology (IT)	olv3*	0.5	0.5	0.5 (1.0)	
cmy3*	0.5	0.5	0.5 (0.0)		
olv4*	1.0	1.0	0.75		
cmy4*	0.0	0.0	0.5		
standard and adapted CIELAB					
LAB*LAB	53.21	0.04	0.0		
LAB*TChRa	53.21	0.01	0.0		
relative CIELAB lab*					
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
lab*irj	0.5	0.0	0.0		
lab*ice	0.5	0.0	0.0		
lab*nE	0.5	0.0	0.0		
relative Inform. Technology (IT)	olv3*	0.5	0.5	0.5 (1.0)	
cmy3*	0.5	0.5	0.5 (0.0)		
olv4*	1.0	1.0	0.75		
cmy4*	0.0	0.0	0.5		
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*TChRa	32.11	0.01	0.01		
relative CIELAB lab*					
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*irj	0.25	0.0	0.0		
lab*ice	0.25	0.0	0.0		
lab*nE	0.25	0.0	0.0		
relative Inform. Technology (IT)	olv3*	0.5	0.25	0.25 (1.0)	
cmy3*	0.25	0.25	0.25 (0.0)		
olv4*	1.0	1.0	0.75		
cmy4*	0.0	0.0	0.5		
standard and adapted CIELAB					
LAB*LAB	32.11	0.05	0.01		
LAB*TChRa	32.11	0.01	0.01		
relative CIELAB lab*					
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*irj	0.25	0.0	0.0		
lab*ice	0.25	0.0	0.0		
lab*nE	0.25	0.0	0.0		
relative Inform. Technology (IT)	olv3*	0.25	0.25	0.25 (1.0)	
cmy3*	0.1	0.1	0.1 (0.0)		
olv4*	0.5	0.5	0.5 (0.0)		
cmy4*	0.0	0.0	0.5		
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*TChRa	0.01	0.01	0.01		
relative CIELAB lab*					
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
lab*irj	0.0	0.0	0.0		
lab*ice	0.0	0.0	0.0		
lab*nE	0.0	0.0	0.0		
relative Inform. Technology (IT)	olv3*	0.0	0.0	0.0 (1.0)	
cmy3*	1.0	1.0	1.0 (0.0)		
olv4*	0.0	0.0	0.0		
cmy4*	0.0	0.0	0.0		
standard and adapted CIELAB					
LAB*LAB	11.01	0.07	0.01		
LAB*TChRa	0.01	0.01	0.01		
relative CIELAB lab*					
lab*tch	0.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
lab*irj	0.0	0.0	0.0		
lab*ice	0.0	0.0	0.0		
lab*nE	0.0	0.0	0.0		
relative Inform. Technology (IT)	olv3*	0.125	0.25	-0.004	
cmy3*	0.125	0.25	0.25 (0.0)		
olv4*	0.75	0.75	0.75 (0.0)		
cmy4*	0.75	0.75	0.75 (0.0)		
standard and adapted CIELAB					
LAB*LAB	21.55	19.33	8.6		
LAB*TChRa	21.55	19.26	8.58		
relative CIELAB lab*					
lab*tch	0.125	0.228	0.102		
lab*nch	0.125	0.25	0.25 (0.0)		
lab*irj	0.125	0.25	0.25 (0.0)		
lab*ice	0.125	0.25	0.25 (0.0)		
lab*nE	0.125	0.25	0.25 (0.0)		
relative Inform. Technology (IT)	olv3*	0.125	0.25	-0.004	
cmy3*	0.125	0.25	0.25 (0.0)		
olv4*	0.75	0.75	0.75 (0.0)		
cmy4*	0.75	0.75	0.75 (0.0)		
standard and adapted CIELAB					
LAB*LAB	21.55	19.33	8.6		
LAB*TChRa	21.55	19.26	8.58		
relative CIELAB lab*					
lab*tch	0.125	0.228	0.102		
lab*nch	0.125	0.25	0.25 (0.0)		
lab*irj	0.125	0.25	0.25 (0.0)		
lab*ice	0.125	0.25	0.25 (0.0)		
lab*nE	0.125	0.25	0.25 (0.0)		
relative Inform. Technology (IT)	olv3*	0.125	0.25	-0.004	
cmy3*	0.125	0.25	0.25 (0.0)		
olv4*	0.75	0.75	0.75 (0.0)		
cmy4*	0.75	0.75	0.75 (0.0)		
standard and adapted CIELAB					
LAB*LAB	21.55	19.33	8.6		
LAB*TChRa	21.55	19.26	8.58		
relative CIELAB lab*					
lab*tch	0.125	0.228	0.102		
lab*nch	0.125	0.25	0.25 (0.0)		
lab*irj	0.125	0			

Siehe

ähnliche Dateien: <http://www.ps.bam.de/UG42/>

Technische Information: <http://www.ps.bam.de>

Version 2.1, io=0,1, CIEXYZ

Eingabe: Farbmétrisches Reflexions-System ORS18

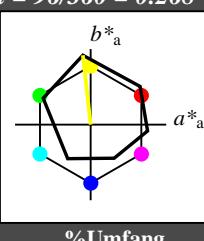
für Bunton $h^* = lab^*h = 96/360 = 0.268$
 lab^*tch und lab^*nch

D65: Bunton Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

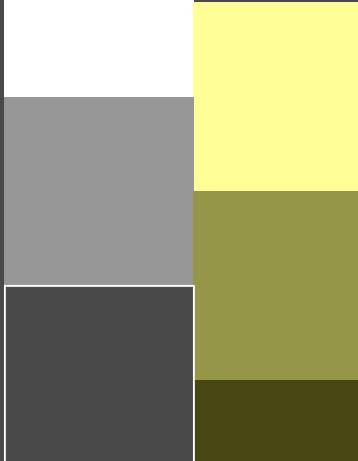
Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 93$

1,00



ORS18; adaptierte CIELAB-Daten

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

%Regularität

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

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

Ausgabe: Farbmétrisches Reflexions-System NRS11

für Bunton $h^* = lab^*h = 91/360 = 0.253$

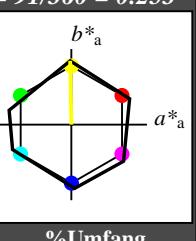
lab^*tch und lab^*nch

D65: Bunton J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

n* = 0,00

0,25

0,50

0,75

1,00

relative Buntheit c*

n* = 1,0

0,50

0,25

0,00

n* = 0,25

0,50

0,75

1,00

relative Buntheit c*

n* = 0,50

0,25

0,00

n* = 0,75

0,50

0,25

0,00

n* = 1,0

Ausgabe: Farbmétrisches Reflexions-System NRS11

für Bunton $h^* = lab^*h = 91/360 = 0.253$

lab^*tch und lab^*nch

D65: Bunton J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit

NRS11; adaptierte CIELAB-Daten

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

%Regularität

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

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

0,00

0,25

0,50

0,75

1,00

relative Buntheit c*

n* = 0,00

0,25

0,50

0,75

1,00

relative Buntheit c*

n* = 0,50

0,25

0,00

n* = 1,0

0,50</

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG42/>
 Technische Information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ

Eingabe: Farbmétrisches Reflexions-System ORS18

für Bunton $h^* = lab^*h = 151/360 = 0.419$

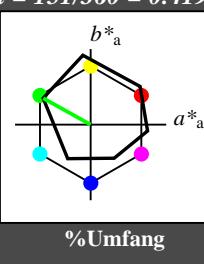
lab^*tch und lab^*nch

D65: Bunton L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit

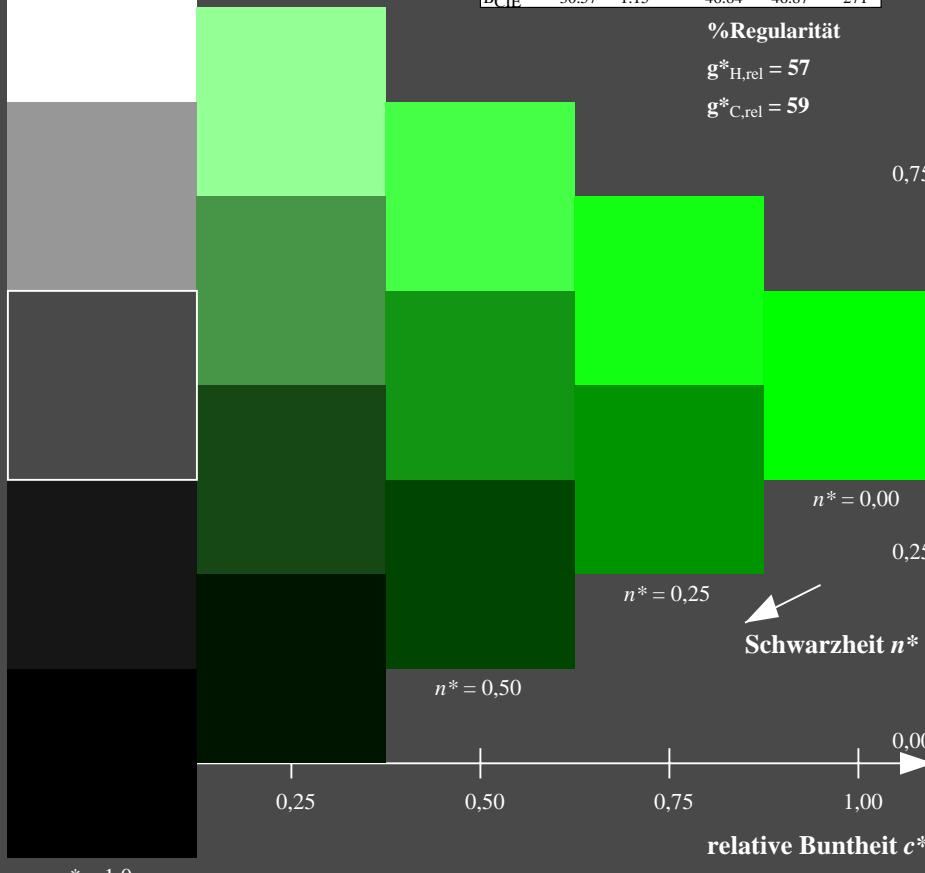


%Umfang

$u^*_{rel} = 93$

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
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	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271



$n^* = 1,0$

UG420-7, 5 stufige Reihen für konstanten CIELAB Bunton 151/360 = 0.419 (links)

BAM-Prüfvorlage UG42; Farbmétrik-Systeme ORS18 & NRS11 input: cmy0* setcmykcolor

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: olv* setrgbcolor / w* setgray

Ausgabe: Farbmétrisches Reflexions-System NRS11

für Bunton $h^* = lab^*h = 167/360 = 0.464$

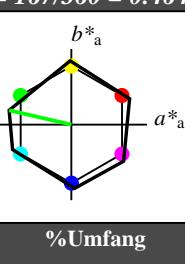
lab^*tch und lab^*nch

D65: Bunton G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit



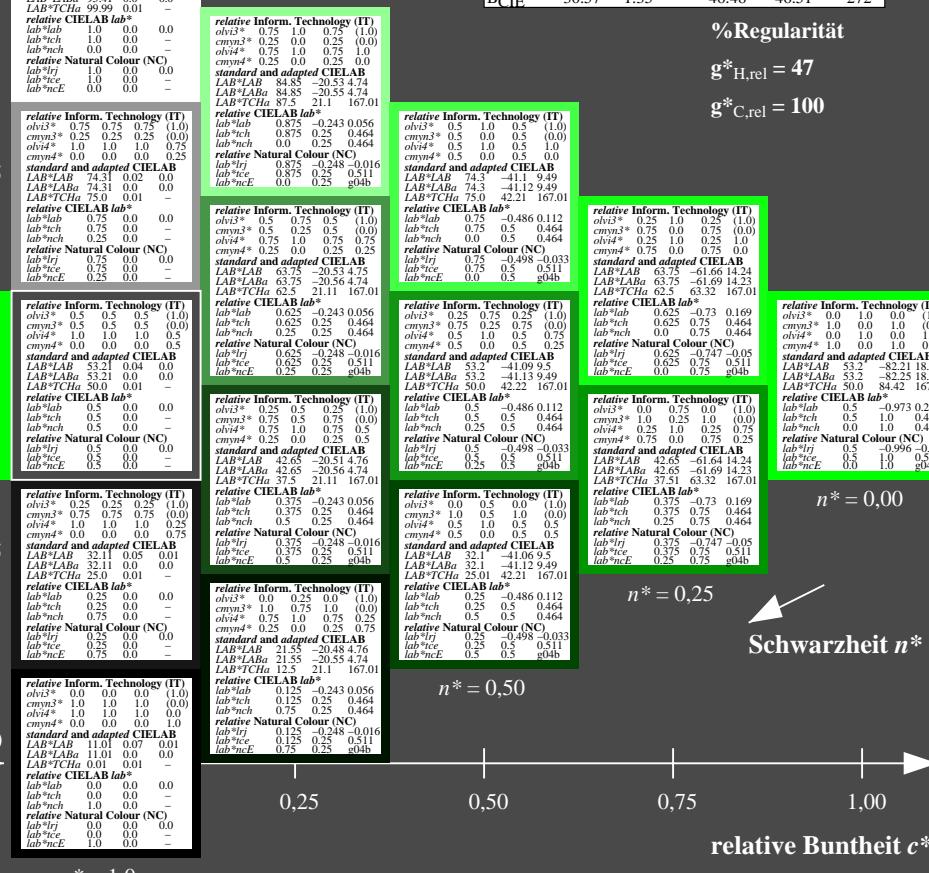
%Umfang

$u^*_{rel} = 119$

%Regularität

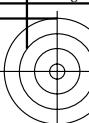
$g^*_{H,rel} = 57$

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



$n^* = 1,0$

5 stufige Reihen für konstanten CIELAB Bunton 167/360 = 0.464 (rechts)

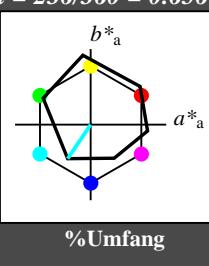


Eingabe: Farbmétrisches Reflexions-System ORS18

für Bunton $h^* = lab^*h = 236/360 = 0.656$
 lab^*tch und lab^*nch

D65: Bunton C
 LCH*Ma: 59 54 236
 rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit



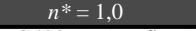
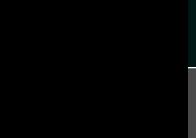
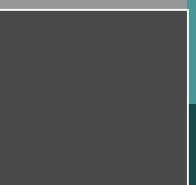
%Umfang

$u^*_{rel} = 93$

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_{ab}	b^*_{ab}	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
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	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

1,00



ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_{ab}	b^*_{ab}	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
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	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

Ausgabe: Farbmétrisches Reflexions-System NRS11

für Bunton $h^* = lab^*h = 203/360 = 0.564$

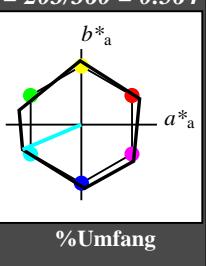
lab^*tch und lab^*nch

D65: Bunton G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 119$

NRS11; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_{ab}	b^*_{ab}	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272

%Regularität

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

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

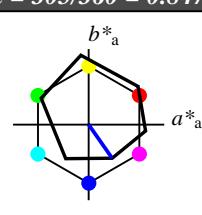
	$L^*=L^*_a$	a^*_{ab}	b^*_{ab}	$C^*_{ab,a}$	$h^*_{ab,a}$
relative Inform. Technology (IT)	oliv3* 1.0 1.0 1.0 (1.0)	cmy3* 0.5 0.5 0.5 (0.0)	oliv4* 1.0 1.0 1.0	cmy4* 0.0 0.0 0.0	
standard and adapted CIELAB	LAB*LAB 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	
relative CIELAB 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	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	lab*lab 0.75 0.75 0.75	lab*tch 0.25 0.25 0.25	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.5 0.5 0.5	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.25 0.25 0.25	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.5 0.5 0.5 (1.0)	cmy3* 0.5 0.5 0.5 (0.0)	oliv4* 1.0 1.0 1.0	cmy4* 0.0 0.0 0.0	
standard and adapted CIELAB	LAB*LAB 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	
relative CIELAB lab*	lab*lab 0.75 0.75 0.75	lab*tch 0.25 0.25 0.25	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.5 0.5 0.5	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.25 0.25 0.25	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	oliv3* 0.5 0.5 0.5 (1.0)	cmy3* 0.5 0.5 0.5 (0.0)	oliv4* 1.0 1.0 1.0	cmy4* 0.0 0.0 0.0	
standard and adapted CIELAB	LAB*LAB 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	
relative CIELAB lab*	lab*lab 0.75 0.75 0.75	lab*tch 0.25 0.25 0.25	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.5 0.5 0.5	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.25 0.25 0.25	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	oliv3* 0.0 0.0 0.0 (1.0)	cmy3* 1.0 1.0 1.0 (0.0)	oliv4* 1.0 1.0 1.0	cmy4* 0.0 0.0 0.0	
standard and adapted CIELAB	LAB*LAB 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	LAB*Tch 0.0 0.0 0.0	
relative CIELAB lab*	lab*lab 0.125 0.125 0.125	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.125 0.125 0.125	cmy3* 0.75 0.75 0.75	oliv4* 0.25 0.25 0.25	cmy4* 0.5 0.5 0.5	
standard and adapted CIELAB	LAB*LAB 0.125 0.125 0.125	LAB*Tch 0.75 0.75 0.75	LAB*Tch 0.25 0.25 0.25	LAB*Tch 0.5 0.5 0.5	
relative CIELAB lab*	lab*lab 0.125 0.125 0.125	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.125 0.125 0.125	cmy3* 0.75 0.75 0.75	oliv4* 0.25 0.25 0.25	cmy4* 0.5 0.5 0.5	
standard and adapted CIELAB	LAB*LAB 0.125 0.125 0.125	LAB*Tch 0.75 0.75 0.75	LAB*Tch 0.25 0.25 0.25	LAB*Tch 0.5 0.5 0.5	
relative CIELAB lab*	lab*lab 0.125 0.125 0.125	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.125 0.125 0.125	cmy3* 0.75 0.75 0.75	oliv4* 0.25 0.25 0.25	cmy4* 0.5 0.5 0.5	
standard and adapted CIELAB	LAB*LAB 0.125 0.125 0.125	LAB*Tch 0.75 0.75 0.75	LAB*Tch 0.25 0.25 0.25	LAB*Tch 0.5 0.5 0.5	
relative CIELAB lab*	lab*lab 0.125 0.125 0.125	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.125 0.125 0.125	cmy3* 0.75 0.75 0.75	oliv4* 0.25 0.25 0.25	cmy4* 0.5 0.5 0.5	
standard and adapted CIELAB	LAB*LAB 0.125 0.125 0.125	LAB*Tch 0.75 0.75 0.75	LAB*Tch 0.25 0.25 0.25	LAB*Tch 0.5 0.5 0.5	
relative CIELAB lab*	lab*lab 0.125 0.125 0.125	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.125 0.125 0.125	cmy3* 0.75 0.75 0.75	oliv4* 0.25 0.25 0.25	cmy4* 0.5 0.5 0.5	
standard and adapted CIELAB	LAB*LAB 0.125 0.125 0.125	LAB*Tch 0.75 0.75 0.75	LAB*Tch 0.25 0.25 0.25	LAB*Tch 0.5 0.5 0.5	
relative CIELAB lab*	lab*lab 0.125 0.125 0.125	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.125 0.125 0.125	cmy3* 0.75 0.75 0.75	oliv4* 0.25 0.25 0.25	cmy4* 0.5 0.5 0.5	
standard and adapted CIELAB	LAB*LAB 0.125 0.125 0.125	LAB*Tch 0.75 0.75 0.75	LAB*Tch 0.25 0.25 0.25	LAB*Tch 0.5 0.5 0.5	
relative CIELAB lab*	lab*lab 0.125 0.125 0.125	lab*tch 0.75 0.75 0.75	lab*nch 0.25 0.25 0.25	lab*irj 0.25 0.25 0.25	lab*ice 0.25 0.25 0.25
relative CIELAB lab*	lab*lab 0.0 0.0 0.0	lab*tch 0.75 0.75 0.75	lab*nch 0.0 0.0 0.0	lab*irj 0.0 0.0 0.0	lab*ice 0.0 0.0 0.0
relative CIELAB lab*	oliv3* 0.125 0.125 0.125	cmy3* 0.75 0.75 0.75	oliv4* 0.25 0.25 0.25	cmy4* 0.5 0.5 0.5	
standard and adapted CIELAB	LAB*LAB 0.125 0.125 0.125	LAB*Tch 0.75 0.75 0.75	LAB*Tch 0.25 0.25 0.25	LAB*Tch 0.5 0.5 0.5	
relative CIELAB lab*	lab*lab 0.125 0.				

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG42/>
 Technische Information: <http://www.ps.bam.de> Version 2.1, io=0,1, CIEXYZ

Eingabe: Farbmétrisches Reflexions-System ORS18

für Bunton $h^* = lab^*h = 305/360 = 0.847$

lab^*tch und lab^*nch



%Umfang

$u^*_{rel} = 93$

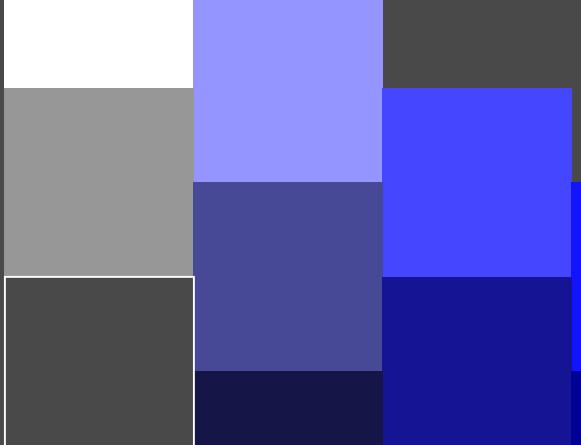
D65: Bunton V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit

1,00



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

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

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

$n^* = 0,00$

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$n^$

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG42/>
 Technische Information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ

Eingabe: Farbmétrisches Reflexions-System ORS18

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

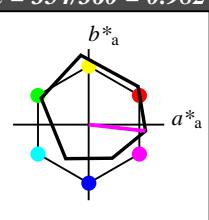
lab^*tch und lab^*nch

D65: Bunton M

LCH*Ma: 48 76 354

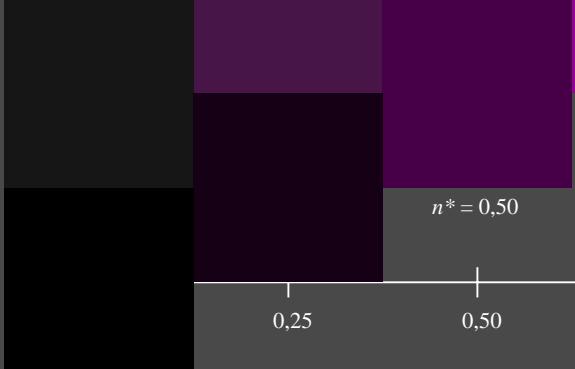
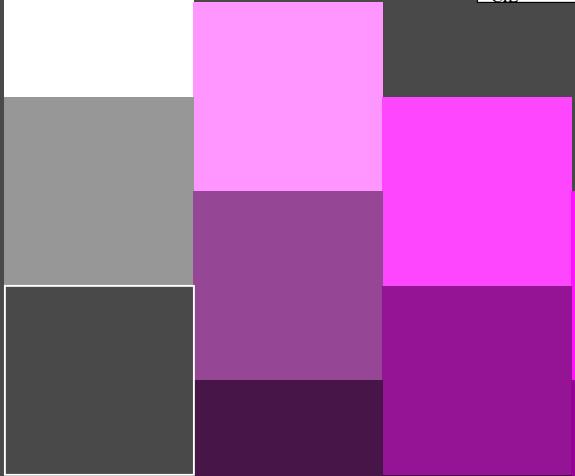
rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 93$



ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_{aa}	b^*_{ab}	$C^*_{ab,a}$	$h^*_{ab,a}$
O Ma	47.94	65.37	50.52	82.62	38
Y Ma	90.37	-10.27	91.77	92.34	96
L Ma	50.9	-62.79	34.95	71.87	151
C Ma	58.62	-30.35	-45.01	54.3	236
V Ma	25.71	31.11	-44.42	54.24	305
M Ma	48.13	75.27	-8.35	75.73	354
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	58.66	26.98	64.56	25
J CIE	81.26	-2.17	67.76	67.79	92
G CIE	52.23	-42.26	11.75	43.87	164
B CIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

Ausgabe: Farbmétrisches Reflexions-System NRS11

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

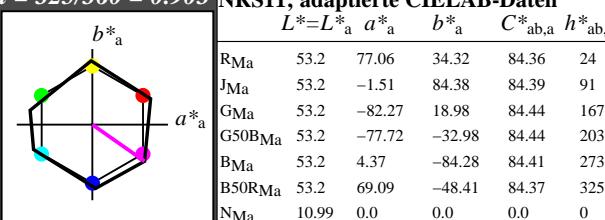
lab^*tch und lab^*nch

D65: Bunton B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit



%Umfang

$u^*_{rel} = 119$

standard and adapted CIELAB

relative Inform. Technology (IT)

$olv3^*$ 1.0 0.0 0.0 (1.0)

$cmy3^*$ 0.0 1.0 0.0 (0.0)

$olv4^*$ 1.0 1.0 0.0

$cmy4^*$ 0.0 0.0 0.0

$standard and adapted CIELAB$

LAB^*LAB 74.31 0.02 0.0

LAB^*TCh 74.31 0.01 -

$relative Inform. Technology (II)$

$olv3^*$ 0.5 0.5 0.5 (1.0)

$cmy3^*$ 0.25 0.25 0.25

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 53.33 0.04 0.0

LAB^*TCh 53.33 0.01 -

$relative Inform. Technology (III)$

$olv3^*$ 0.5 0.5 0.5 (1.0)

$cmy3^*$ 0.5 0.5 0.5 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 53.33 0.05 0.01

LAB^*TCh 53.33 0.01 -

$relative Inform. Technology (IV)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.11

$relative Inform. Technology (V)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (VI)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (VII)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (VIII)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (IX)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (X)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XI)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XII)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XIII)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XIV)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XV)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XVI)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XVII)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XVIII)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XIX)$

$olv3^*$ 0.75 0.75 0.75 (1.0)

$cmy3^*$ 0.25 0.25 0.25 (0.0)

$olv4^*$ 1.0 1.0 0.75

$cmy4^*$ 0.0 0.0 0.5

$standard and adapted CIELAB$

LAB^*LAB 42.65 17.27 -12.09

LAB^*TCh 42.65 17.27 -12.08

$relative Inform. Technology (XX)$

Eingabe: Farbmétrisches Reflexions-System ORS18
 für Bunton $h^* = lab^*h = 92/360 = 0.255$

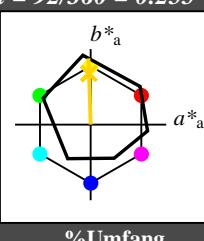
lab^*tch und lab^*nch

D65: Bunton J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

Dreiecks-Helligkeit



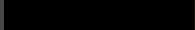
ORS18; adaptierte CIELAB-Daten

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
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	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

1,00

%Umfang

$u^*_{rel} = 93$



%Regularität

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

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

%Regularität

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

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

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Eingabe: Farbmétrisches Reflexions-System ORS18

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

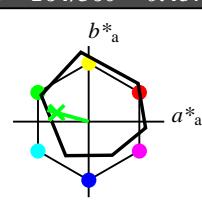
lab^*tch und lab^*nch

D65: Bunton G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

Dreiecks-Helligkeit



1,00 ↑
 %Umfang
 $u^*_{rel} = 93$

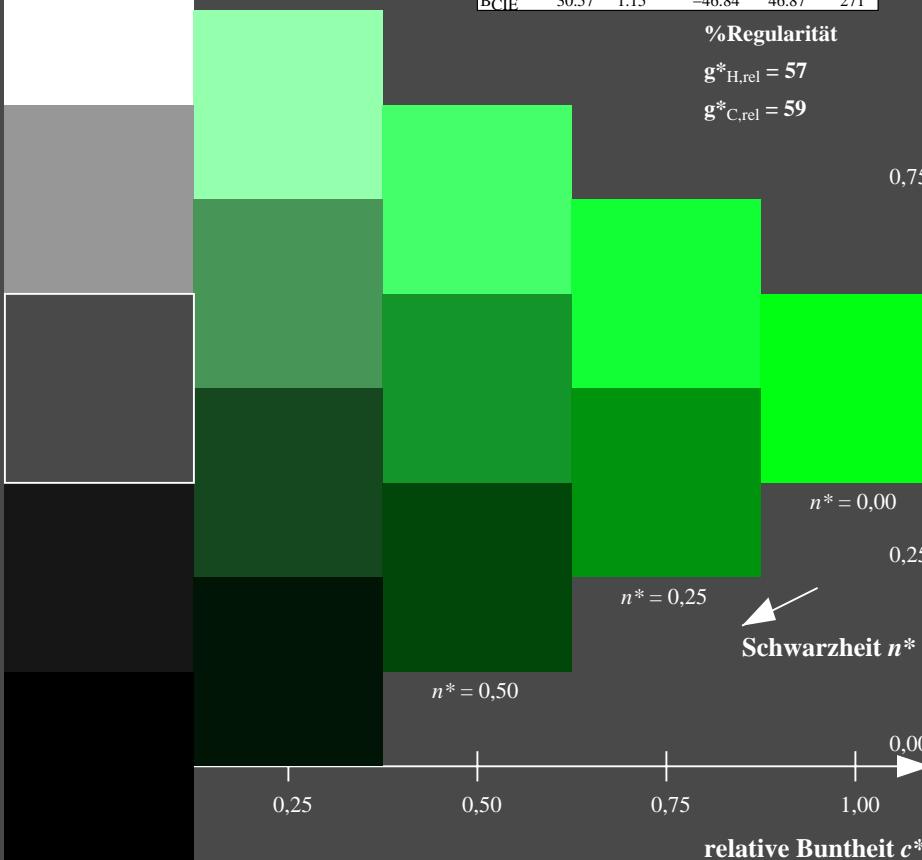
ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
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	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

%Regularität

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

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



$n^* = 1,0$

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

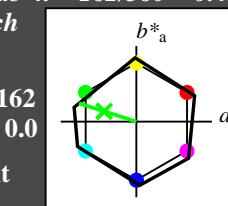
BAM-Prüfvorlage UG42; Farbmétrik-Systeme ORS18 & NRS11 input: cmy0* setcmykcolor

D65: 5stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: olv* setrgbcolor / w* setgray

Ausgabe: Farbmétrisches Reflexions-System NRS11

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

lab^*tch und lab^*nch



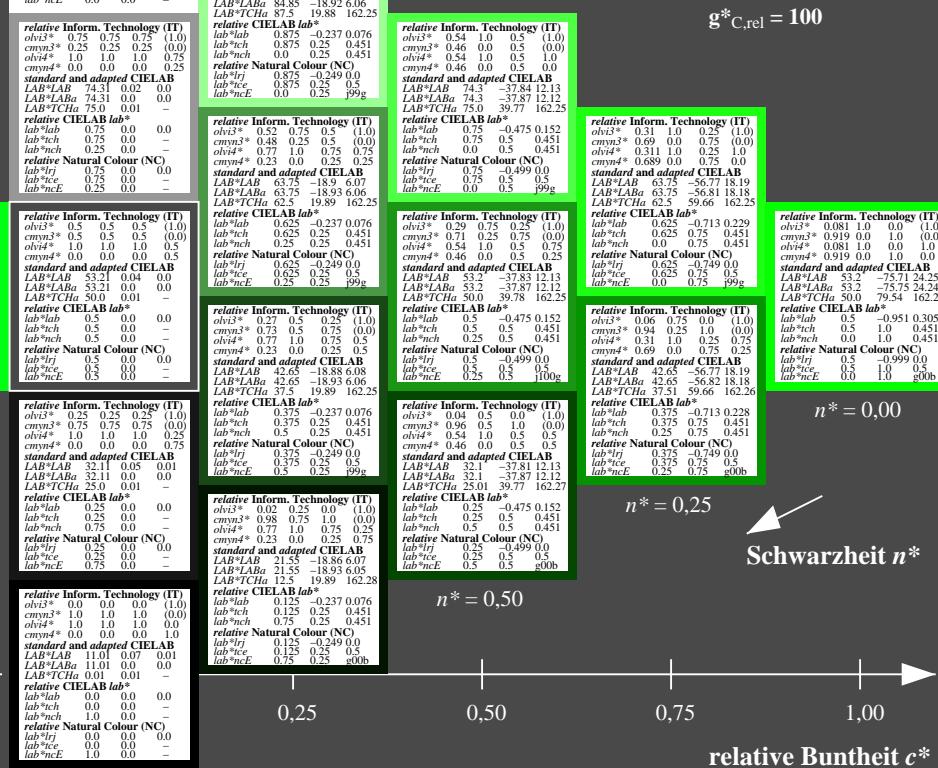
1,00 ↑
 %Umfang
 $u^*_{rel} = 119$

Dreiecks-Helligkeit

%Regularität

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

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



$n^* = 1,0$

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

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG42/>
 Technische Information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ

Eingabe: Farbmétrisches Reflexions-System ORS18

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

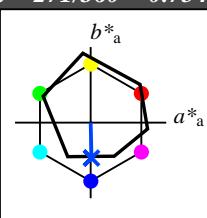
lab^*tch und lab^*nch

D65: Bunton B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

Dreiecks-Helligkeit



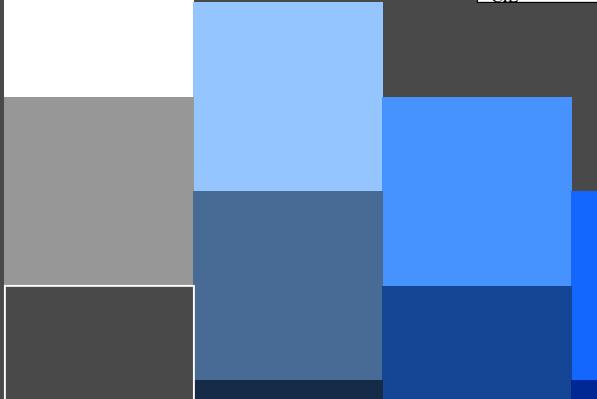
%Umfang

$u^*_{rel} = 93$



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

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

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

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$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

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