

Eingabe: Farbmetrisches Reflexions-System NCS11

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

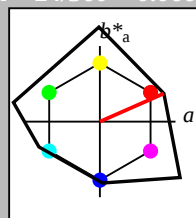
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

olvi4* 1.0 1.0 1.0 (1.0)

olvi5* 1.0 1.0 1.0 (1.0)

olvi6* 1.0 1.0 1.0 (1.0)

olvi7* 1.0 1.0 1.0 (1.0)

olvi8* 1.0 1.0 1.0 (1.0)

olvi9* 1.0 1.0 1.0 (1.0)

olvi10* 1.0 1.0 1.0 (1.0)

olvi11* 1.0 1.0 1.0 (1.0)

olvi12* 1.0 1.0 1.0 (1.0)

olvi13* 1.0 1.0 1.0 (1.0)

olvi14* 1.0 1.0 1.0 (1.0)

olvi15* 1.0 1.0 1.0 (1.0)

olvi16* 1.0 1.0 1.0 (1.0)

olvi17* 1.0 1.0 1.0 (1.0)

olvi18* 1.0 1.0 1.0 (1.0)

olvi19* 1.0 1.0 1.0 (1.0)

olvi20* 1.0 1.0 1.0 (1.0)

olvi21* 1.0 1.0 1.0 (1.0)

olvi22* 1.0 1.0 1.0 (1.0)

olvi23* 1.0 1.0 1.0 (1.0)

olvi24* 1.0 1.0 1.0 (1.0)

olvi25* 1.0 1.0 1.0 (1.0)

olvi26* 1.0 1.0 1.0 (1.0)

olvi27* 1.0 1.0 1.0 (1.0)

olvi28* 1.0 1.0 1.0 (1.0)

olvi29* 1.0 1.0 1.0 (1.0)

olvi30* 1.0 1.0 1.0 (1.0)

olvi31* 1.0 1.0 1.0 (1.0)

olvi32* 1.0 1.0 1.0 (1.0)

olvi33* 1.0 1.0 1.0 (1.0)

olvi34* 1.0 1.0 1.0 (1.0)

olvi35* 1.0 1.0 1.0 (1.0)

olvi36* 1.0 1.0 1.0 (1.0)

olvi37* 1.0 1.0 1.0 (1.0)

olvi38* 1.0 1.0 1.0 (1.0)

olvi39* 1.0 1.0 1.0 (1.0)

NCS11; adaptierte CIELAB-Daten

	L*	a*	b*	C* _{ab,a}	h* _{ab,a}
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
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

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

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

relative Inform. Technology (IT)

olvi3* 1.0 0.5 0.5 (1.0)

olvi4* 1.0 0.5 0.5 (1.0)

olvi5* 1.0 0.5 0.5 (1.0)

olvi6* 1.0 0.5 0.5 (1.0)

olvi7* 1.0 0.5 0.5 (1.0)

olvi8* 1.0 0.5 0.5 (1.0)

olvi9* 1.0 0.5 0.5 (1.0)

olvi10* 1.0 0.5 0.5 (1.0)

olvi11* 1.0 0.5 0.5 (1.0)

olvi12* 1.0 0.5 0.5 (1.0)

olvi13* 1.0 0.5 0.5 (1.0)

olvi14* 1.0 0.5 0.5 (1.0)

olvi15* 1.0 0.5 0.5 (1.0)

olvi16* 1.0 0.5 0.5 (1.0)

olvi17* 1.0 0.5 0.5 (1.0)

olvi18* 1.0 0.5 0.5 (1.0)

olvi19* 1.0 0.5 0.5 (1.0)

olvi20* 1.0 0.5 0.5 (1.0)

olvi21* 1.0 0.5 0.5 (1.0)

olvi22* 1.0 0.5 0.5 (1.0)

olvi23* 1.0 0.5 0.5 (1.0)

olvi24* 1.0 0.5 0.5 (1.0)

olvi25* 1.0 0.5 0.5 (1.0)

olvi26* 1.0 0.5 0.5 (1.0)

olvi27* 1.0 0.5 0.5 (1.0)

olvi28* 1.0 0.5 0.5 (1.0)

olvi29* 1.0 0.5 0.5 (1.0)

olvi30* 1.0 0.5 0.5 (1.0)

olvi31* 1.0 0.5 0.5 (1.0)

olvi32* 1.0 0.5 0.5 (1.0)

olvi33* 1.0 0.5 0.5 (1.0)

Ausgabe: Farbmetrisches Reflexions-System MRS18

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

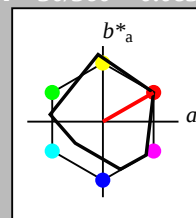
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

olvi4* 1.0 1.0 1.0 (1.0)

olvi5* 1.0 1.0 1.0 (1.0)

olvi6* 1.0 1.0 1.0 (1.0)

olvi7* 1.0 1.0 1.0 (1.0)

olvi8* 1.0 1.0 1.0 (1.0)

olvi9* 1.0 1.0 1.0 (1.0)

olvi10* 1.0 1.0 1.0 (1.0)

olvi11* 1.0 1.0 1.0 (1.0)

olvi12* 1.0 1.0 1.0 (1.0)

olvi13* 1.0 1.0 1.0 (1.0)

olvi14* 1.0 1.0 1.0 (1.0)

olvi15* 1.0 1.0 1.0 (1.0)

olvi16* 1.0 1.0 1.0 (1.0)

olvi17* 1.0 1.0 1.0 (1.0)

olvi18* 1.0 1.0 1.0 (1.0)

olvi19* 1.0 1.0 1.0 (1.0)

olvi20* 1.0 1.0 1.0 (1.0)

olvi21* 1.0 1.0 1.0 (1.0)

olvi22* 1.0 1.0 1.0 (1.0)

olvi23* 1.0 1.0 1.0 (1.0)

olvi24* 1.0 1.0 1.0 (1.0)

olvi25* 1.0 1.0 1.0 (1.0)

olvi26* 1.0 1.0 1.0 (1.0)

olvi27* 1.0 1.0 1.0 (1.0)

olvi28* 1.0 1.0 1.0 (1.0)

olvi29* 1.0 1.0 1.0 (1.0)

olvi30* 1.0 1.0 1.0 (1.0)

olvi31* 1.0 1.0 1.0 (1.0)

olvi32* 1.0 1.0 1.0 (1.0)

olvi33* 1.0 1.0 1.0 (1.0)

olvi34* 1.0 1.0 1.0 (1.0)

olvi35* 1.0 1.0 1.0 (1.0)

olvi36* 1.0 1.0 1.0 (1.0)

olvi37* 1.0 1.0 1.0 (1.0)

olvi38* 1.0 1.0 1.0 (1.0)

olvi39* 1.0 1.0 1.0 (1.0)

MRS18; adaptierte CIELAB-Daten

	L*	a*	b*	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* 1.0 0.5 0.5 (1.0)

olvi4* 1.0 0.5 0.5 (1.0)

olvi5* 1.0 0.5 0.5 (1.0)

olvi6* 1.0 0.5 0.5 (1.0)

olvi7* 1.0 0.5 0.5 (1.0)

olvi8* 1.0 0.5 0.5 (1.0)

olvi9* 1.0 0.5 0.5 (1.0)

olvi10* 1.0 0.5 0.5 (1.0)

olvi11* 1.0 0.5 0.5 (1.0)

olvi12* 1.0 0.5 0.5 (1.0)

olvi13* 1.0 0.5 0.5 (1.0)

olvi14* 1.0 0.5 0.5 (1.0)

olvi15* 1.0 0.5 0.5 (1.0)

olvi16* 1.0 0.5 0.5 (1.0)

olvi17* 1.0 0.5 0.5 (1.0)

olvi18* 1.0 0.5 0.5 (1.0)

olvi19* 1.0 0.5 0.5 (1.0)

olvi20* 1.0 0.5 0.5 (1.0)

olvi21* 1.0 0.5 0.5 (1.0)

olvi22* 1.0 0.5 0.5 (1.0)

olvi23* 1.0 0.5 0.5 (1.0)

olvi24* 1.0 0.5 0.5 (1.0)

olvi25* 1.0 0.5 0.5 (1.0)

olvi26* 1.0 0.5 0.5 (1.0)

olvi27* 1.0 0.5 0.5 (1.0)

olvi28* 1.0 0.5 0.5 (1.0)

olvi29* 1.0 0.5 0.5 (1.0)

olvi30* 1.0 0.5 0.5 (1.0)

olvi31* 1.0 0.5 0.5 (1.0)

olvi32* 1.0 0.5 0.5 (1.0)

olvi33* 1.0 0.5 0.5 (1.0)

UG580-7, 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 UG58; Farbmetrik-Systeme NCS11a & MRS18bput: $cmv0^* setcmvcolor$

D65: 2 Koordinaten-Daten von 25stufigen Farbreihen für 10 Bunttonen: $olv^* setrgbcolor / w^* setgray$

Dreiecks-Helligkeit t^*

Eingabe: Farbmetrisches Reflexions-System NCS11

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

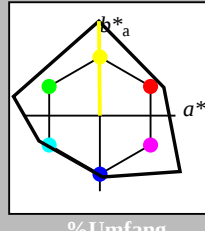
lab^*ch und lab^*nch

D65: Buntton J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 149$

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 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCRa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 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*nce 1.0 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 74.31 0.02 0.0
LAB*Lab 74.31 0.02 0.0
LAB*TCRa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*nce 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
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 53.21 0.04 0.0
LAB*Lab 53.21 0.04 0.0
LAB*TCRa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.5 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*nce 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.08 0.0
LAB*Lab 32.11 0.08 0.0
LAB*TCRa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*ch 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*nce 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*Lab 11.01 0.07 0.01
LAB*TCRa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*nce 1.0 1.0 1.0 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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 0.01 0.0
LAB*Lab 0.01 0.01 0.0
LAB*TCRa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*nce 1.0 1.0 1.0 (1.0)

NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 93.38 -0.62 62.5
LAB*Lab 93.38 -0.62 62.5
LAB*TCRa 93.38 -0.62 62.5

relative CIELAB lab*
lab*lab 0.976 0.004 0.5
lab*ch 0.75 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.976 0.02 0.493
lab*nce 0.75 0.5 0.252

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.75 (0.0)
olvi4* 1.0 1.0 0.75 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 72.29 -0.63 62.51
LAB*Lab 72.29 -0.63 62.51
LAB*TCRa 50.00 62.52 90.59

relative CIELAB lab*
lab*lab 0.726 0.02 0.43
lab*ch 0.75 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.726 0.02 0.43
lab*nce 0.75 0.5 0.252

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 51.18 -0.59 62.51
LAB*Lab 51.18 -0.59 62.51
LAB*TCRa 37.51 62.52 90.59

relative CIELAB lab*
lab*lab 0.488 -0.007 0.5
lab*ch 0.375 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.488 0.01 0.25
lab*nce 0.375 0.5 0.252

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 31.05 -0.25 62.51
LAB*Lab 31.05 -0.25 62.51
LAB*TCRa 12.51 62.52 90.59

relative CIELAB lab*
lab*lab 0.238 -0.002 0.25
lab*ch 0.125 0.25 0.252
lab*nch 0.0 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.238 0.01 0.25
lab*nce 0.125 0.25 0.252

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01 0.0
LAB*Lab 0.01 0.01 0.0
LAB*TCRa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*nce 1.0 1.0 0.0 (0.0)

Ausgabe: Farbmetrisches Reflexions-System MRS18

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

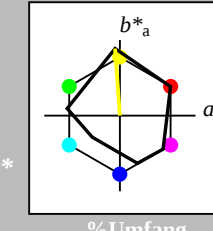
lab^*ch und lab^*nch

D65: Buntton J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 91$

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*Lab 95.41 0.0 0.0
LAB*TCRa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 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*nce 1.0 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*Lab 76.06 -0.6 3.44
LAB*TCRa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*nce 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
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*Lab 56.71 0.23 2.14
LAB*TCRa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.5 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*nce 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.83
LAB*Lab 37.36 0.13 0.83
LAB*TCRa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*ch 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*nce 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.46
LAB*Lab 18.02 0.5 0.46
LAB*TCRa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*nce 1.0 1.0 0.0 (0.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01 0.0
LAB*Lab 0.01 0.01 0.0
LAB*TCRa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*nce 1.0 1.0 0.0 (0.0)

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
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 93.05 -0.17 0.249
LAB*Lab 93.05 -0.17 0.249
LAB*TCRa 93.05 -0.17 0.249

relative CIELAB lab*
lab*lab 0.969 -0.035 0.499
lab*ch 0.75 0.5 0.261
lab*nch 0.0 0.5 0.261
relative Natural Colour (NC)
lab*trj 0.969 -0.023 0.499
lab*nce 0.75 0.5 0.261

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.75 (0.0)
olvi4* 1.0 1.0 0.75 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 73.7 -3.17 47.67
LAB*Lab 73.7 -3.17 47.67
LAB*TCRa 50.00 44.49 94.1

relative CIELAB lab*
lab*lab 0.726 0.02 0.43
lab*ch 0.75 0.5 0.261
lab*nch 0.0 0.5 0.261
relative Natural Colour (NC)
lab*trj 0.726 0.02 0.43
lab*nce 0.75 0.5 0.261

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 54.35 -1.8 24.26
LAB*Lab 54.35 -1.8 24.26
LAB*TCRa 37.51 66.73 94.1

relative CIELAB lab*
lab*lab 0.488 -0.003 0.499
lab*ch 0.375 0.5 0.261
lab*nch 0.0 0.5 0.261
relative Natural Colour (NC)
lab*trj 0.488 -0.003 0.499
lab*nce 0.375 0.5 0.261

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 36.18 -0.43 22.94
LAB*Lab 36.18 -0.43 22.94
LAB*TCRa 12.51 66.73 94.1

relative CIELAB lab*
lab*lab 0.238 -0.003 0.499
lab*ch 0.125 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.238 -0.003 0.499
lab*nce 0.125 0.25 0.261

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01 0.0
LAB*Lab 0.01 0.01 0.0
LAB*TCRa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*nce 1.0 1.0 0.0 (0.0)

UG580-7, 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 UG58; Farbmetrik-Systeme NCS11a & MRS18bput: cmy0* setcmykcolor

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen: w* setrgbcolor / w* setgray

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG58/>
Technische Information: <http://www.ps.bam.de> Version 2.1, io=0,1, CIEXYZ

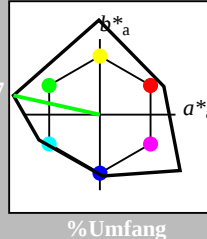
Eingabe: Farbmetrisches Reflexions-System NCS11

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

lab^*ch und lab^*nch

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

Dreiecks-Helligkeit t^*



$u^*_{rel} = 149$

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)
LAB*LAB	95.41	0.0	-0.01	
LAB*Lab	95.41	0.0	0.0	
LAB*TCMa	99.99	0.01	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	1.0	0.75	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.75	1.0	0.75	(1.0)
cmyn4*	0.25	0.0	0.25	(0.0)
LAB*LAB	87.32	-28.53	6.33	
LAB*Lab	87.32	-28.53	6.33	
LAB*TCMa	87.5	-29.25	16.75	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	0.5	1.0	0.5	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)
LAB*LAB	79.24	-57.12	12.67	
LAB*Lab	79.24	-57.12	12.67	
LAB*TCMa	75.0	-58.52	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.25	(1.0)
cmyn3*	0.75	0.5	0.25	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	71.15	-85.66	19.01	
LAB*Lab	71.15	-85.66	19.01	
LAB*TCMa	62.5	-87.78	16.75	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	0.0	0.0	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	1.0	(0.0)
LAB*LAB	63.07	-114.225	35	
LAB*Lab	63.07	-114.225	35	
LAB*TCMa	50.0	-117.04	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	50.06	-85.65	19.02	
LAB*Lab	50.06	-85.65	19.01	
LAB*TCMa	37.51	-87.78	16.75	

relative Inform. Technology (IT)

olvi3*	0.0	0.25	0.0	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.75	(0.0)
LAB*LAB	56.71	-123.21	24	
LAB*Lab	56.71	-123.21	24	
LAB*TCMa	50.0	-117.04	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.25	(1.0)
cmyn3*	0.75	0.0	0.25	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	45.88	-174.63	3.78	
LAB*Lab	45.88	-174.63	3.78	
LAB*TCMa	37.5	-179.29	17.229	

relative Inform. Technology (IT)

olvi3*	0.0	0.5	0.0	(1.0)
cmyn3*	0.75	0.5	0.75	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.5	(0.0)
LAB*LAB	43.95	-172.42	36	
LAB*Lab	43.95	-172.42	36	
LAB*TCMa	50.0	-117.04	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	35.06	-172.42	36	
LAB*Lab	35.06	-172.42	36	
LAB*TCMa	50.0	-117.04	16.75	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	0.0	0.0	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	1.0	(0.0)
LAB*LAB	52.11	-69.86	11.28	
LAB*Lab	52.11	-69.86	11.28	
LAB*TCMa	50.0	-117.04	16.75	

NCS11; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

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

relative Inform. Technology (IT)

olvi3*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.5	1.0	0.5	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)
LAB*LAB	79.24	-57.12	12.67	
LAB*Lab	79.24	-57.12	12.67	
LAB*TCMa	75.0	-58.52	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.25	(1.0)
cmyn3*	0.75	0.5	0.25	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	71.15	-85.66	19.01	
LAB*Lab	71.15	-85.66	19.01	
LAB*TCMa	62.5	-87.78	16.75	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	0.0	0.0	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	1.0	(0.0)
LAB*LAB	63.07	-114.225	35	
LAB*Lab	63.07	-114.225	35	
LAB*TCMa	50.0	-117.04	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	50.06	-85.65	19.02	
LAB*Lab	50.06	-85.65	19.01	
LAB*TCMa	37.51	-87.78	16.75	

relative Inform. Technology (IT)

olvi3*	0.0	0.25	0.0	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.75	(0.0)
LAB*LAB	56.71	-123.21	24	
LAB*Lab	56.71	-123.21	24	
LAB*TCMa	50.0	-117.04	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.25	(1.0)
cmyn3*	0.75	0.0	0.25	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	45.88	-174.63	3.78	
LAB*Lab	45.88	-174.63	3.78	
LAB*TCMa	37.5	-179.29	17.229	

relative Inform. Technology (IT)

olvi3*	0.0	0.5	0.0	(1.0)
cmyn3*	0.75	0.5	0.75	(0.0)
olvi4*	0.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.5	(0.0)
LAB*LAB	43.95	-172.42	36	
LAB*Lab	43.95	-172.42	36	
LAB*TCMa	50.0	-117.04	16.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.25	(0.0)
LAB*LAB	35.06	-172.42	36	
LAB*Lab	35.06	-172.42	36	
LAB*TCMa	50.0	-117.04	16.75	

UG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 167/360 = 0.465 (links)

5 stufige Reihen für konstanten CIELAB Buntton 172/360 = 0.479 (rechts)

BAM-Prüfvorlage UG58; Farbmetrik-Systeme NCS11a & MRS18hput: `cmv0* setcmvcolor`

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen: `olv* setrgbcolor / w* setgray`

Eingabe: Farbmetrisches Reflexions-System NCS11

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

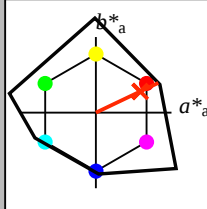
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit t^*



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

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

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

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi6*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	-0.01
LAB*Lab	95.41	0.0	0.0
LAB*TC _{Ma}	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*ch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0
lab*tr	1.0	0.0	0.0

relative Natural Colour (NC)

lab*tr	0.75	0.0	0.0
lab*tc	0.75	0.0	0.0
lab*nc	0.75	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi6*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	74.31	0.02	0.0
LAB*Lab	74.31	0.02	0.0
LAB*TC _{Ma}	75.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*ch	0.75	0.0	0.0
lab*nch	0.25	0.0	0.0
lab*tr	0.75	0.0	0.0

relative Natural Colour (NC)

lab*tr	0.5	0.0	0.0
lab*tc	0.5	0.0	0.0
lab*nc	0.5	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
olvi4*	0.75	0.75	0.75	(0.0)
olvi5*	1.0	1.0	1.0	(0.0)
olvi6*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	53.21	0.04	0.0
LAB*Lab	53.21	0.04	0.0
LAB*TC _{Ma}	50.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*ch	0.5	0.0	0.0
lab*nch	0.5	0.0	0.0
lab*tr	0.5	0.0	0.0

relative Natural Colour (NC)

lab*tr	0.25	0.0	0.0
lab*tc	0.25	0.0	0.0
lab*nc	0.25	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.756	0.75	(1.0)
olvi4*	0.0	0.244	0.25	(0.0)
olvi5*	1.0	0.756	0.75	(1.0)
olvi6*	0.0	0.244	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	83.61	20.65	9.84
LAB*Lab	83.61	20.64	9.84
LAB*TC _{Ma}	87.5	2.86	25.49

relative CIELAB lab*

lab*lab	0.86	0.26	0.108
lab*ch	0.875	0.25	0.071
lab*nch	0.0	0.25	0.071
lab*tr	0.86	0.25	0.0

relative Natural Colour (NC)

lab*tr	0.875	0.25	0.0
lab*tc	0.875	0.25	0.0
lab*nc	0.875	0.25	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.506	0.5	(1.0)
olvi4*	0.25	0.494	0.5	(0.0)
olvi5*	1.0	0.756	0.75	(1.0)
olvi6*	0.0	0.244	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	62.51	20.64	9.84
LAB*Lab	62.51	20.64	9.84
LAB*TC _{Ma}	62.5	22.87	25.49

relative CIELAB lab*

lab*lab	0.61	0.25	0.108
lab*ch	0.625	0.25	0.071
lab*nch	0.25	0.25	0.071
lab*tr	0.61	0.25	0.0

relative Natural Colour (NC)

lab*tr	0.625	0.25	0.0
lab*tc	0.625	0.25	0.0
lab*nc	0.625	0.25	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.756	0.75	(1.0)
olvi4*	0.75	0.244	0.25	(0.0)
olvi5*	1.0	0.756	0.75	(1.0)
olvi6*	0.0	0.244	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	41.4	20.7	9.86
LAB*Lab	41.4	20.64	9.84
LAB*TC _{Ma}	37.5	22.87	25.49

relative CIELAB lab*

lab*lab	0.36	0.25	0.108
lab*ch	0.375	0.25	0.071
lab*nch	0.25	0.25	0.071
lab*tr	0.36	0.25	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.512	0.5	(1.0)
olvi4*	0.25	0.488	0.5	(0.0)
olvi5*	1.0	0.512	0.5	(1.0)
olvi6*	0.0	0.488	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	71.81	41.31	19.68
LAB*Lab	71.81	41.28	19.68
LAB*TC _{Ma}	75.0	45.73	25.49

relative CIELAB lab*

lab*lab	0.71	0.451	0.215
lab*ch	0.75	0.5	0.071
lab*nch	0.0	0.5	0.071
lab*tr	0.71	0.5	0.0

relative Natural Colour (NC)

lab*tr	0.75	0.5	0.0
lab*tc	0.75	0.5	0.0
lab*nc	0.75	0.5	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.982	1.0	(1.0)
olvi4*	0.75	0.018	0.0	(0.0)
olvi5*	1.0	0.512	0.5	(1.0)
olvi6*	0.0	0.488	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	50.71	41.33	19.69
LAB*Lab	50.71	41.29	19.68
LAB*TC _{Ma}	50.0	45.74	25.49

relative CIELAB lab*

lab*lab	0.581	0.677	0.323
lab*ch	0.625	0.75	0.071
lab*nch	0.0	0.75	0.071
lab*tr	0.581	0.75	0.0

relative Natural Colour (NC)

lab*tr	0.625	0.75	0.0
lab*tc	0.625	0.75	0.0
lab*nc	0.625	0.75	0.0

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(1.0)
olvi4*	0.5	0.5	0.5	(0.0)
olvi5*	0.5	0.5	0.5	(1.0)
olvi6*	0.5	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	60.01	61.96	29.53
LAB*Lab	60.01	61.93	29.51
LAB*TC _{Ma}	62.5	68.6	25.49

relative Inform. Technology (IT)

olvi3*	1.0	0.268	0.25	(1.0)
olvi4*	0.0	0.732	0.25	(0.0)
olvi5*	1.0	0.268	0.25	(1.0)
olvi6*	0.0	0.732	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	60.01	61.96	29.53
LAB*Lab	60.01	61.92	29.52
LAB*TC _{Ma}	62.5	68.6	25.49

relative CIELAB lab*

lab*lab	0.581	0.677	0.323
lab*ch	0.625	0.75	0.071
lab*nch	0.0	0.75	0.071
lab*tr	0.581	0.75	0.0

relative Natural Colour (NC)

lab*tr	0.625	0.75	0.0
lab*tc	0.625	0.75	0.0
lab*nc	0.625	0.75	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.982	1.0	(1.0)
olvi4*	0.75	0.018	0.0	(0.0)
olvi5*	1.0	0.512	0.5	(1.0)
olvi6*	0.0	0.488	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	38.91	61.99	29.53
LAB*Lab	38.91	61.93	29.51
LAB*TC _{Ma}	37.51	68.6	25.49

relative CIELAB lab*

lab*lab	0.331	0.677	0.323
lab*ch	0.375	0.75	0.071
lab*nch	0.0	0.75	0.071
lab*tr	0.331	0.75	0.0

relative Natural Colour (NC)

lab*tr	0.375	0.75	0.0
lab*tc	0.375	0.75	0.0
lab*nc	0.375	0.75	0.0

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

$n^* = 3.00$

$n^* = 3.25$

$n^* = 3.50$

$n^* = 3.75$

$n^* = 4.00$

$n^* = 4.25$

$n^* = 4.50$

$n^* = 4.75$

$n^* = 5.00$

$n^* = 5.25$

$n^* = 5.50$

$n^* = 5.75$

$n^* = 6.00$

$n^* = 6.25$

$n^* = 6.50$

$n^* = 6.75$

$n^* = 7.00$

$n^* = 7.25$

$n^* = 7.50$

$n^* = 7.75$

$n^* = 8.00$

$n^* = 8.25$

$n^* = 8.50$

$n^* = 8.75$

$n^* = 9.00$

$n^* = 9.25$

$n^* = 9.50$

$n^* = 9.7$

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen: `olv* setrabcolor / w* setarav`

Siehe ähnliche Dateien: <http://www.ps.bam.de/UG58/>
Technische Information: <http://www.ps.bam.de> Version 2.1, io=0,1, CIEXYZ

Eingabe: Farbmetrisches Reflexions-System NCS11

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

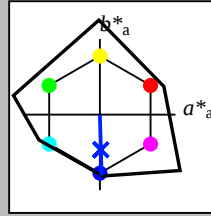
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

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 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*trc 1.0 0.0 0.0
lab*ncc 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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*LABb 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 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 53.21 0.04 0.0
LAB*LABa 53.21 0.0 0.0
LAB*LABb 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 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 11.01 0.07 0.01
LAB*LABa 11.01 0.0 0.0
LAB*LABb 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 -

NCS11; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.29 1.2 -40.21
LAB*LABa 72.29 1.17 -40.21
LAB*LABb 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.014 -0.499
lab*ch 0.75 0.5 0.755
lab*nch 0.0 0.5 0.755

relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trc 0.75 0.5 0.755
lab*ncc 0.0 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.012 0.75 (1.0)
cmyn3* 0.75 0.742 0.25 (0.0)
olvi4* 0.5 0.508 1.0 0.755
cmyn4* 0.5 0.492 0.0 0.25
standard and adapted CIELAB
LAB*LAB 51.19 1.21 -40.21
LAB*LABa 51.19 1.17 -40.21
LAB*LABb 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.476 0.0 -0.499
lab*ch 0.476 0.5 0.755
lab*nch 0.0 0.5 0.755

relative Natural Colour (NC)
lab*trj 0.476 0.0 -0.499
lab*trc 0.476 0.5 0.755
lab*ncc 0.0 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.008 0.5 (1.0)
cmyn3* 1.0 0.988 0.25 (0.0)
olvi4* 0.0 0.016 1.0 0.5
cmyn4* 0.0 0.016 1.0 0.5
standard and adapted CIELAB
LAB*LAB 49.18 2.39 -80.42
LAB*LABa 49.18 2.34 -80.42
LAB*LABb 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.339 0.022 -0.749
lab*ch 0.339 0.75 0.755
lab*nch 0.0 0.75 0.755

relative Natural Colour (NC)
lab*trj 0.339 0.0 -0.749
lab*trc 0.339 0.75 0.755
lab*ncc 0.0 0.75 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.008 0.5 (1.0)
cmyn3* 1.0 0.988 0.25 (0.0)
olvi4* 0.0 0.016 1.0 0.5
cmyn4* 0.0 0.016 1.0 0.5
standard and adapted CIELAB
LAB*LAB 49.18 2.39 -80.42
LAB*LABa 49.18 2.34 -80.42
LAB*LABb 50.00 0.01 -

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

relative Bunttheit c^*

Ausgabe: Farbmetrisches Reflexions-System MRS18

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

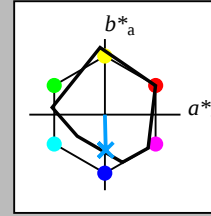
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

Dreiecks-Helligkeit t^*



%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 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*trc 1.0 0.0 0.0
lab*ncc 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 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 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 0.21 2.14
LAB*LABb 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.5 0.0 0.0
lab*ncc 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 42.93 0.31 -11.37
LAB*LABa 42.93 0.31 -11.37
LAB*LABb 37.50 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 0.0 0.0 -

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

relative Bunttheit 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
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.52 0.75 (1.0)
cmyn3* 0.478 0.478 0.0 (0.0)
olvi4* 0.75 0.842 1.0 0.75
cmyn4* 0.25 0.158 0.0 0.25
standard and adapted CIELAB
LAB*LAB 67.57 0.17 -22.28
LAB*LABa 67.57 0.17 -22.28
LAB*LABb 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.012 -0.499
lab*ch 0.5 0.75 0.754
lab*nch 0.0 0.75 0.754

relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.5 0.75 0.754
lab*ncc 0.0 0.75 0.754

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 48.22 0.54 -23.59
LAB*LABa 48.22 0.54 -23.59
LAB*LABb 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.008 0.5 (1.0)
cmyn3* 1.0 0.988 0.25 (0.0)
olvi4* 0.0 0.016 1.0 0.5
cmyn4* 0.0 0.016 1.0 0.5
standard and adapted CIELAB
LAB*LAB 42.93 0.31 -11.37
LAB*LABa 42.93 0.31 -11.37
LAB*LABb 37.50 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.012 -0.499
lab*ch 0.0 0.75 0.754
lab*nch 0.0 0.75 0.754

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.75 0.754
lab*ncc 0.0 0.75 0.754

relative Inform. Technology (IT)
olvi3* 0.0 0.008 0.5 (1.0)
cmyn3* 1.0 0.988 0.25 (0.0)
olvi4* 0.0 0.016 1.0 0.5
cmyn4* 0.0 0.016 1.0 0.5
standard and adapted CIELAB
LAB*LAB 42.93 0.31 -11.37
LAB*LABa 42.93 0.31 -11.37
LAB*LABb 37.50 0.01 -

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

relative Bunttheit c^*

UG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

5 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (rechts)

BAM-Prüfvorlage UG58; Farbmetrik-Systeme NCS11a & MRS18

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen

cmyn0* setcmymcolor

cmyn0* setrgbcolor / w* setgray