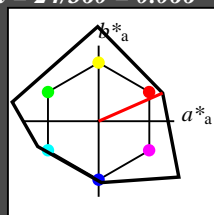


Eingabe: Farbmétrisches Reflexions-System NCS11

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

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

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

%Regularität

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

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

NCS11; adaptierte CIELAB-Daten

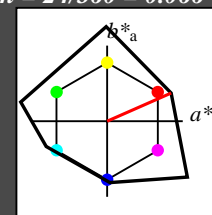
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	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

Ausgabe: Farbmétrisches 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
olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

%Regularität

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

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

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

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*TCHa 99.99 0.01 -

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

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 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 53.21 0.04 0.0
LAB*LABa 53.21 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 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 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LABa 11.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 1.0
cmyn4* 0.0 0.5 0.5 0.0

standard and adapted CIELAB
LAB*LAB 71.27 42.34 18.63
LAB*LABa 71.27 42.31 18.62
LAB*TCHa 75.0 46.23 23.75

relative CIELAB lab*
lab*lab 0.714 0.458 0.201
lab*tch 0.75 0.5 0.066
lab*nch 0.0 0.5 0.066

relative Natural Colour (NC)
lab*lrj 0.714 0.5 -0.011
lab*tce 0.75 0.5 0.996
lab*nce 0.0 0.5 0.996

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 1.0 1.0 (0.0)
olvi4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5

standard and adapted CIELAB
LAB*LAB 29.07 42.38 18.64
LAB*LABa 29.07 42.31 18.62
LAB*TCHa 25.01 46.23 23.75

relative CIELAB lab*
lab*lab 0.214 0.458 0.201
lab*tch 0.25 0.5 0.066
lab*nch 0.5 0.5 0.066

relative Natural Colour (NC)
lab*lrj 0.214 0.5 -0.011
lab*tce 0.25 0.5 0.996
lab*nce 0.5 0.5 0.996

relative Inform. Technology (IT)
olvi3* 1.0 0.0 0.0 (1.0)
cmyn3* 0.0 1.0 1.0 (0.0)
olvi4* 1.0 0.0 0.0 1.0
cmyn4* 0.0 1.0 1.0 0.0

standard and adapted CIELAB
LAB*LAB 47.15 84.68 37.26
LAB*LABa 47.15 84.63 37.24
LAB*TCHa 50.0 92.46 23.75

relative CIELAB lab*
lab*lab 0.428 0.915 0.403
lab*tch 0.5 1.0 0.066
lab*nch 0.0 1.0 0.066

relative Natural Colour (NC)
lab*lrj 0.428 1.0 -0.023
lab*tce 0.5 1.0 0.996
lab*nce 0.0 1.0 0.996

Siehe ähnliche Dateien: <http://www.ps.bam.de/TG09/>
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ

BAM-Registrierung: 20060101-TG09/10S/S09G00FP.PS/.PDF BAM-Material: Code=rh4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen, Yr=2.5, XYZ
/TG09/ Form: 1/10, Serie: 1/1, Seite: 1 Seite: 1

Eingabe: Farbmétrisches Reflexions-System NCS11

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

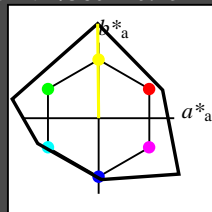
lab^*tch und lab^*nch

D65: Buntton J

LCH*Ma: 91 125 91

olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

%Regularität

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

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

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

Ausgabe: Farbmétrisches Reflexions-System NCS11

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

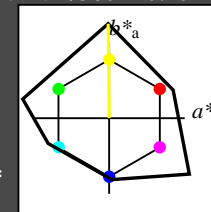
lab^*tch und lab^*nch

D65: Buntton J

LCH*Ma: 91 125 91

olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

%Regularität

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

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

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

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
 $LAB^*LAB = 95.41 \ 0.0 \ -0.01$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

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
 $LAB^*LAB = 53.21 \ 0.04 \ 0.0$
 $LAB^*LABa = 53.21 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 11.01 \ 0.07 \ 0.01$
 $LAB^*LABa = 11.01 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

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
 $LAB^*LAB = 93.38 \ -0.62 \ 62.5$
 $LAB^*LABa = 93.38 \ -0.63 \ 62.5$
 $LAB^*TCHa = 75.0 \ 62.5 \ 90.59$

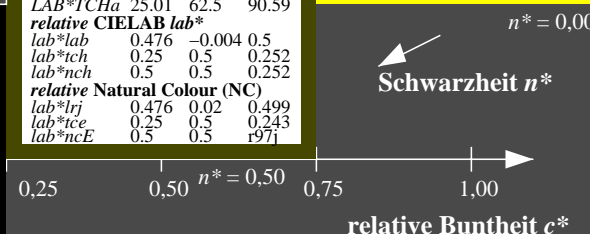
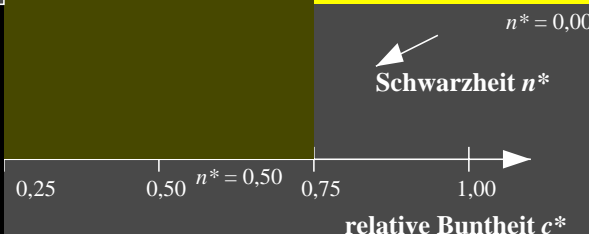
relative CIELAB lab*
 $lab^*lab = 0.976 \ -0.004 \ 0.5$
 $lab^*tch = 0.75 \ 0.5 \ 0.252$
 $lab^*nch = 0.0 \ 0.5 \ 0.252$
relative Natural Colour (NC)
 $lab^*lrj = 0.976 \ 0.02 \ 0.499$
 $lab^*tce = 0.75 \ 0.5 \ 0.243$
 $lab^*nce = 0.0 \ 0.5 \ r97j$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 0.5 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.5 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 51.18 \ -0.59 \ 62.51$
 $LAB^*LABa = 51.18 \ -0.63 \ 62.5$
 $LAB^*TCHa = 25.01 \ 62.5 \ 90.59$

relative CIELAB lab*
 $lab^*lab = 0.476 \ -0.004 \ 0.5$
 $lab^*tch = 0.25 \ 0.5 \ 0.252$
 $lab^*nch = 0.5 \ 0.5 \ 0.252$
relative Natural Colour (NC)
 $lab^*lrj = 0.476 \ 0.02 \ 0.499$
 $lab^*tce = 0.25 \ 0.5 \ 0.243$
 $lab^*nce = 0.5 \ 0.5 \ r97j$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 1.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 0.0 \ 1.0$
 $cmyn4^* = 0.0 \ 0.0 \ 1.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 91.36 \ -1.26 \ 125.0$
 $LAB^*LABa = 91.36 \ -1.27 \ 125.0$
 $LAB^*TCHa = 50.0 \ 125.01 \ 90.59$

relative CIELAB lab*
 $lab^*lab = 0.952 \ -0.009 \ 1.0$
 $lab^*tch = 0.5 \ 1.0 \ 0.252$
 $lab^*nch = 0.0 \ 1.0 \ 0.252$
relative Natural Colour (NC)
 $lab^*lrj = 0.952 \ 0.041 \ 0.999$
 $lab^*tce = 0.5 \ 1.0 \ 0.243$
 $lab^*nce = 0.0 \ 1.0 \ r97j$

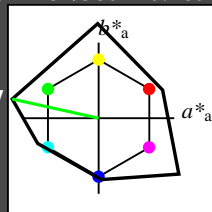


Eingabe: Farbmétrisches Reflexions-System NCS11

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

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

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

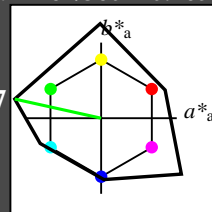
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	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

Ausgabe: Farbmétrisches 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
olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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*TCa 99.99 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0
 $lab^*tch = 1.0$ 0.0 -
 $lab^*nch = 0.0$ 0.0 -
relative Natural Colour (NC)
 $lab^*lrj = 1.0$ 0.0 0.0
 $lab^*tce = 1.0$ 0.0 -
 $lab^*nce = 0.0$ 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 53.21 0.04 0.0
LAB*LABa 53.21 0.0 0.0
LAB*TCa 50.0 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0
 $lab^*tch = 0.5$ 0.0 -
 $lab^*nch = 0.5$ 0.0 -
relative Natural Colour (NC)
 $lab^*lrj = 0.5$ 0.0 0.0
 $lab^*tce = 0.5$ 0.0 -
 $lab^*nce = 0.5$ 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 0.0
 $cmyn4^* = 0.0$ 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LABa 11.01 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0
 $lab^*tch = 0.0$ 0.0 -
 $lab^*nch = 1.0$ 0.0 -
relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0
 $lab^*tce = 0.0$ 0.0 -
 $lab^*nce = 1.0$ 0.0 -

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
standard and adapted CIELAB
LAB*LAB 79.24 -57.1 12.67
LAB*LABa 79.24 -57.12 12.67
LAB*TCa 75.0 58.52 167.5

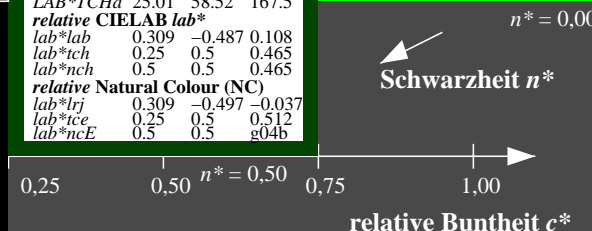
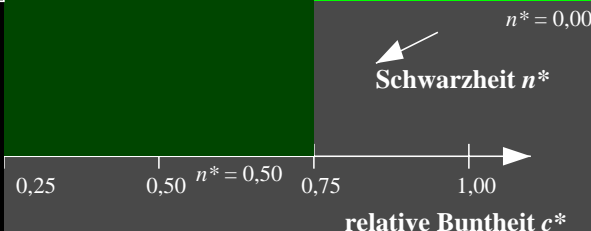
relative CIELAB lab*
 $lab^*lab = 0.808$ -0.487 0.108
 $lab^*tch = 0.75$ 0.5 0.465
 $lab^*nch = 0.0$ 0.5 0.465
relative Natural Colour (NC)
 $lab^*lrj = 0.808$ -0.497 -0.037
 $lab^*tce = 0.75$ 0.5 0.512
 $lab^*nce = 0.0$ 0.5 g04b

relative Inform. Technology (IT)
 $olvi3^* = 0.0$ 0.5 0.0 (1.0)
 $cmyn3^* = 1.0$ 0.5 1.0 (0.0)
 $olvi4^* = 0.5$ 1.0 0.5 0.5
 $cmyn4^* = 0.5$ 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 37.04 -57.07 12.69
LAB*LABa 37.04 -57.12 12.67
LAB*TCa 25.01 58.52 167.5

relative CIELAB lab*
 $lab^*lab = 0.309$ -0.487 0.108
 $lab^*tch = 0.25$ 0.5 0.465
 $lab^*nch = 0.5$ 0.5 0.465
relative Natural Colour (NC)
 $lab^*lrj = 0.309$ -0.497 -0.037
 $lab^*tce = 0.25$ 0.5 0.512
 $lab^*nce = 0.5$ 0.5 g04b

relative Inform. Technology (IT)
 $olvi3^* = 0.0$ 1.0 0.0 (1.0)
 $cmyn3^* = 1.0$ 0.0 1.0 (0.0)
 $olvi4^* = 0.0$ 1.0 0.0 1.0
 $cmyn4^* = 1.0$ 0.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 63.07 -114.225 35
LAB*LABa 63.07 -114.225 34
LAB*TCa 50.0 117.04 167.5

relative CIELAB lab*
 $lab^*lab = 0.617$ -0.975 0.216
 $lab^*tch = 0.5$ 1.0 0.465
 $lab^*nch = 0.0$ 1.0 0.465
relative Natural Colour (NC)
 $lab^*lrj = 0.617$ -0.996 -0.074
 $lab^*tce = 0.5$ 1.0 0.512
 $lab^*nce = 0.0$ 1.0 g04b

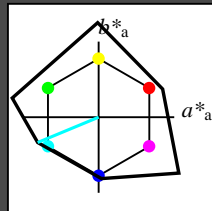


Eingabe: Farbmétrisches Reflexions-System NCS11

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

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

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

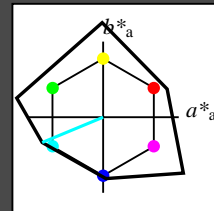
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	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

Ausgabe: Farbmétrisches 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
olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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
 $LAB^*LAB = 95.41 \ 0.0 \ -0.01$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

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
 $LAB^*LAB = 53.21 \ 0.04 \ 0.0$
 $LAB^*LABa = 53.21 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 11.01 \ 0.07 \ 0.01$
 $LAB^*LABa = 11.01 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 1.0 \ 1.0 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.0 \ 0.0 \ (0.0)$
 $olvi4^* = 0.5 \ 1.0 \ 1.0 \ 1.0$
 $cmyn4^* = 0.5 \ 0.0 \ 0.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 77.43 \ -40.26 \ -16.71$
 $LAB^*LABa = 77.43 \ -40.29 \ -16.72$
 $LAB^*TCHa = 75.0 \ 43.63 \ 202.54$

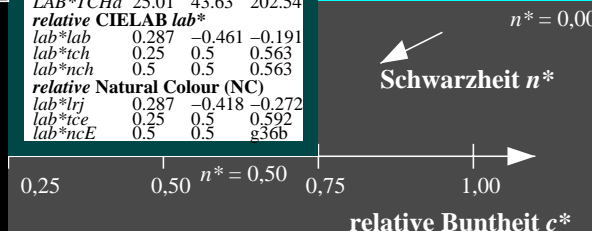
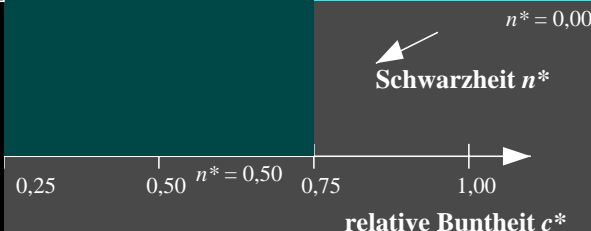
relative CIELAB lab*
 $lab^*lab = 0.787 \ -0.461 \ -0.191$
 $lab^*tch = 0.75 \ 0.5 \ 0.563$
 $lab^*nch = 0.0 \ 0.5 \ 0.563$
relative Natural Colour (NC)
 $lab^*lrj = 0.787 \ -0.418 \ -0.272$
 $lab^*tce = 0.75 \ 0.5 \ 0.592$
 $lab^*nce = 0.0 \ 0.5 \ g36b$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 1.0 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 0.5 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.5 \ 0.0 \ 0.0 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 35.23 \ -40.23 \ -16.7$
 $LAB^*LABa = 35.23 \ -40.29 \ -16.72$
 $LAB^*TCHa = 25.01 \ 43.63 \ 202.54$

relative CIELAB lab*
 $lab^*lab = 0.287 \ -0.461 \ -0.191$
 $lab^*tch = 0.25 \ 0.5 \ 0.563$
 $lab^*nch = 0.5 \ 0.5 \ 0.563$
relative Natural Colour (NC)
 $lab^*lrj = 0.287 \ -0.418 \ -0.272$
 $lab^*tce = 0.25 \ 0.5 \ 0.592$
 $lab^*nce = 0.5 \ 0.5 \ g36b$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 1.0 \ 1.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 0.0 \ 0.0 \ (0.0)$
 $olvi4^* = 0.0 \ 1.0 \ 1.0 \ 1.0$
 $cmyn4^* = 1.0 \ 0.0 \ 0.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 59.47 \ -80.55 \ -33.44$
 $LAB^*LABa = 59.47 \ -80.59 \ -33.44$
 $LAB^*TCHa = 50.0 \ 87.26 \ 202.54$

relative CIELAB lab*
 $lab^*lab = 0.574 \ -0.922 \ -0.382$
 $lab^*tch = 0.5 \ 1.0 \ 0.563$
 $lab^*nch = 0.0 \ 1.0 \ 0.563$
relative Natural Colour (NC)
 $lab^*lrj = 0.574 \ -0.836 \ -0.546$
 $lab^*tce = 0.5 \ 1.0 \ 0.592$
 $lab^*nce = 0.0 \ 1.0 \ g36b$

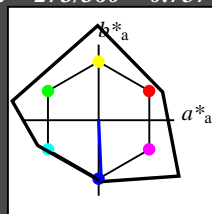


Eingabe: Farbmétrisches Reflexions-System NCS11

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

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

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

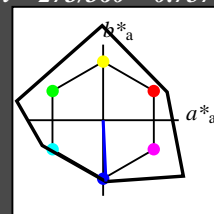
NCS11; adaptierte CIELAB-Daten	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	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

Ausgabe: Farbmétrisches 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
olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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
 $LAB^*LAB = 95.41 \ 0.0 \ -0.01$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

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
 $LAB^*LAB = 53.21 \ 0.04 \ 0.0$
 $LAB^*LABa = 53.21 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 11.01 \ 0.07 \ 0.01$
 $LAB^*LABa = 11.01 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 1.0 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.0 \ (0.0)$
 $olvi4^* = 0.5 \ 0.5 \ 1.0 \ 1.0$
 $cmyn4^* = 0.5 \ 0.5 \ 0.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 72.21 \ 1.85 \ -40.58$
 $LAB^*LABa = 72.21 \ 1.82 \ -40.58$
 $LAB^*TCHa = 75.0 \ 40.63 \ 272.57$

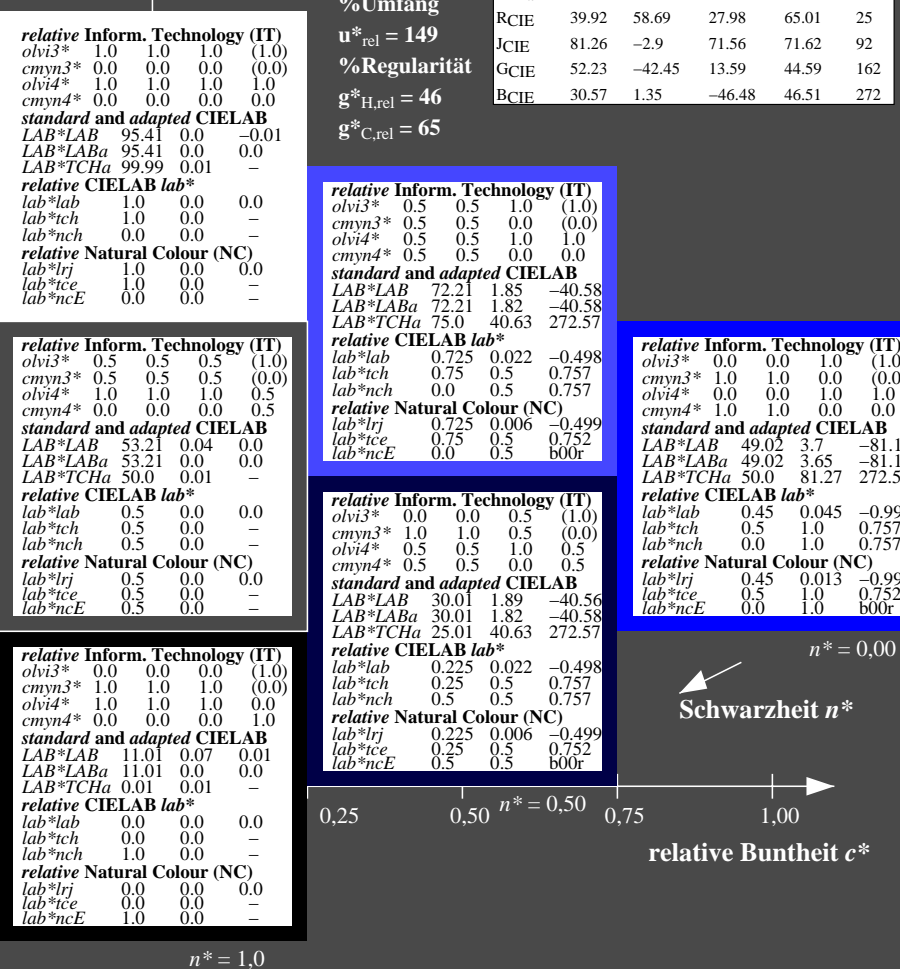
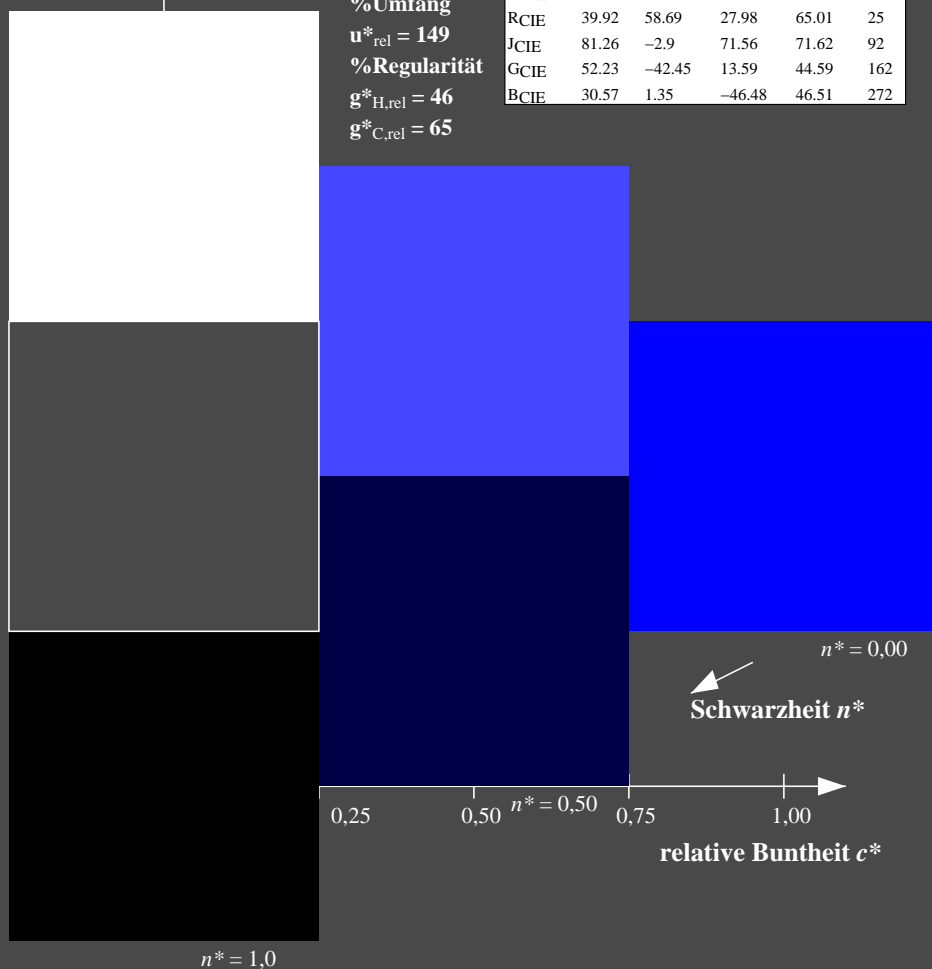
relative CIELAB lab*
 $lab^*lab = 0.725 \ 0.022 \ -0.498$
 $lab^*tch = 0.75 \ 0.5 \ 0.757$
 $lab^*nch = 0.0 \ 0.5 \ 0.757$
relative Natural Colour (NC)
 $lab^*lrj = 0.725 \ 0.006 \ -0.499$
 $lab^*tce = 0.75 \ 0.5 \ 0.752$
 $lab^*nce = 0.0 \ 0.5 \ b00r$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.5 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 0.5 \ (0.0)$
 $olvi4^* = 0.5 \ 0.5 \ 1.0 \ 0.5$
 $cmyn4^* = 0.5 \ 0.5 \ 0.0 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 30.01 \ 1.89 \ -40.56$
 $LAB^*LABa = 30.01 \ 1.82 \ -40.58$
 $LAB^*TCHa = 25.01 \ 40.63 \ 272.57$

relative CIELAB lab*
 $lab^*lab = 0.225 \ 0.022 \ -0.498$
 $lab^*tch = 0.25 \ 0.5 \ 0.757$
 $lab^*nch = 0.5 \ 0.5 \ 0.757$
relative Natural Colour (NC)
 $lab^*lrj = 0.225 \ 0.006 \ -0.499$
 $lab^*tce = 0.25 \ 0.5 \ 0.752$
 $lab^*nce = 0.5 \ 0.5 \ b00r$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 1.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 0.0 \ (0.0)$
 $olvi4^* = 0.0 \ 0.0 \ 1.0 \ 1.0$
 $cmyn4^* = 1.0 \ 1.0 \ 0.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 49.02 \ 3.7 \ -81.16$
 $LAB^*LABa = 49.02 \ 3.65 \ -81.18$
 $LAB^*TCHa = 50.0 \ 81.27 \ 272.57$

relative CIELAB lab*
 $lab^*lab = 0.45 \ 0.045 \ -0.998$
 $lab^*tch = 0.5 \ 1.0 \ 0.757$
 $lab^*nch = 0.0 \ 1.0 \ 0.757$
relative Natural Colour (NC)
 $lab^*lrj = 0.45 \ 0.013 \ -0.999$
 $lab^*tce = 0.5 \ 1.0 \ 0.752$
 $lab^*nce = 0.0 \ 1.0 \ b00r$



TG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (links)

3 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (rechts)

BAM-Prüfvorlage TG09; Farbmétrik-Systeme NCS11a & NCS11aput: $olv^*setrgbcolor$

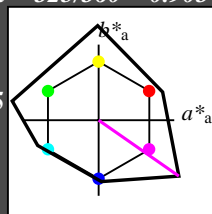
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: $olv^*setrgbcolor / w^*setgray$

Eingabe: Farbmétrisches 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
olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

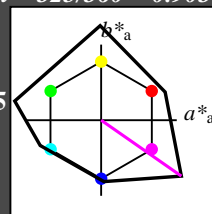
NCS11; adaptierte CIELAB-Daten	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	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

Ausgabe: Farbmétrisches 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
olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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*TCa	99.99	0.01	-	
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	-	
lab*nch	0.0	0.0	-	
relative Natural Colour (NC)				
lab*lrj	1.0	0.0	0.0	
lab*tce	1.0	0.0	-	
lab*nce	0.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	1.0	0.5	1.0	(1.0)
cmyn3*	0.0	0.5	0.0	(0.0)
olvi4*	1.0	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	69.73	53.06	-36.95	
LAB*LABa	69.73	53.03	-36.95	
LAB*TCa	75.0	64.65	325.12	
relative CIELAB lab*				
lab*lab	0.696	0.41	-0.285	
lab*tch	0.75	0.5	0.903	
lab*nch	0.0	0.5	0.903	
relative Natural Colour (NC)				
lab*lrj	0.696	0.336	-0.369	
lab*tce	0.75	0.5	0.867	
lab*nce	0.0	0.5	b46r	

relative Inform. Technology (IT)				
olvi3*	1.0	0.0	1.0	(1.0)
cmyn3*	0.0	1.0	0.0	(0.0)
olvi4*	1.0	0.0	1.0	1.0
cmyn4*	0.0	1.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	44.06	106.12	-73.91	
LAB*LABa	44.06	106.07	-73.92	
LAB*TCa	50.0	129.29	325.12	
relative CIELAB lab*				
lab*lab	0.392	0.82	-0.571	
lab*tch	0.5	1.0	0.903	
lab*nch	0.0	1.0	0.903	
relative Natural Colour (NC)				
lab*lrj	0.392	0.673	-0.739	
lab*tce	0.5	1.0	0.867	
lab*nce	0.0	1.0	b46r	

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	53.21	0.04	0.0	
LAB*LABa	53.21	0.0	0.0	
LAB*TCa	50.0	0.01	-	
relative CIELAB lab*				
lab*lab	0.5	0.0	0.0	
lab*tch	0.5	0.0	-	
lab*nch	0.5	0.0	-	
relative Natural Colour (NC)				
lab*lrj	0.5	0.0	0.0	
lab*tce	0.5	0.0	-	
lab*nce	0.5	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	0.0
cmyn4*	0.0	0.0	0.0	1.0
standard and adapted CIELAB				
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.0	0.0	
LAB*TCa	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	-	
lab*nch	1.0	0.0	-	
relative Natural Colour (NC)				
lab*lrj	0.0	0.0	0.0	
lab*tce	0.0	0.0	-	
lab*nce	1.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.5	0.0	0.5	(1.0)
cmyn3*	0.5	1.0	0.5	(0.0)
olvi4*	1.0	0.5	1.0	0.5
cmyn4*	0.0	0.5	0.0	0.5
standard and adapted CIELAB				
LAB*LAB	27.53	53.1	-36.94	
LAB*LABa	27.53	53.03	-36.95	
LAB*TCa	25.01	64.65	325.12	
relative CIELAB lab*				
lab*lab	0.196	0.41	-0.285	
lab*tch	0.25	0.5	0.903	
lab*nch	0.5	0.5	0.903	
relative Natural Colour (NC)				
lab*lrj	0.196	0.336	-0.369	
lab*tce	0.25	0.5	0.867	
lab*nce	0.5	0.5	b46r	

relative Inform. Technology (IT)				
olvi3*	1.0	0.0	1.0	(1.0)
cmyn3*	0.0	1.0	0.0	(0.0)
olvi4*	1.0	0.0	1.0	1.0
cmyn4*	0.0	1.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	44.06	106.12	-73.91	
LAB*LABa	44.06	106.07	-73.92	
LAB*TCa	50.0	129.29	325.12	
relative CIELAB lab*				
lab*lab	0.392	0.82	-0.571	
lab*tch	0.5	1.0	0.903	
lab*nch	0.0	1.0	0.903	
relative Natural Colour (NC)				
lab*lrj	0.392	0.673	-0.739	
lab*tce	0.5	1.0	0.867	
lab*nce	0.0	1.0	b46r	

$n^* = 0.00$
Schwarzheit n^*
relative Buntheit c^*

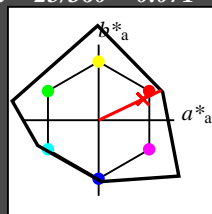
$n^* = 0.00$
Schwarzheit n^*
relative Buntheit c^*

Eingabe: Farbmétrisches 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
olv*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

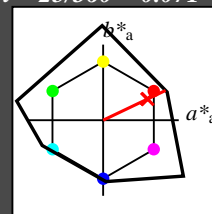
NCS11; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	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

Ausgabe: Farbmétrisches 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
olv*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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
 $LAB^*LAB = 95.41 \ 0.0 \ -0.01$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

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
 $LAB^*LAB = 53.21 \ 0.04 \ 0.0$
 $LAB^*LABa = 53.21 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 11.01 \ 0.07 \ 0.01$
 $LAB^*LABa = 11.01 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.512 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.488 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 0.512 \ 0.5 \ 1.0$
 $cmyn4^* = 0.0 \ 0.488 \ 0.5 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 71.81 \ 41.31 \ 19.68$
 $LAB^*LABa = 71.81 \ 41.28 \ 19.68$
 $LAB^*TCHa = 75.0 \ 45.73 \ 25.49$

relative CIELAB lab*
 $lab^*lab = 0.72 \ 0.451 \ 0.215$
 $lab^*tch = 0.75 \ 0.5 \ 0.071$
 $lab^*nch = 0.0 \ 0.5 \ 0.071$
relative Natural Colour (NC)
 $lab^*lrj = 0.72 \ 0.5 \ 0.0$
 $lab^*tce = 0.75 \ 0.5 \ 0.0$
 $lab^*nce = 0.0 \ 0.5 \ r00j$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.012 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.988 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 0.512 \ 0.5 \ 0.5$
 $cmyn4^* = 0.0 \ 0.488 \ 0.5 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 29.6 \ 41.35 \ 19.69$
 $LAB^*LABa = 29.6 \ 41.29 \ 19.67$
 $LAB^*TCHa = 25.01 \ 45.73 \ 25.47$

relative CIELAB lab*
 $lab^*lab = 0.22 \ 0.451 \ 0.215$
 $lab^*tch = 0.25 \ 0.5 \ 0.071$
 $lab^*nch = 0.5 \ 0.5 \ 0.071$
relative Natural Colour (NC)
 $lab^*lrj = 0.22 \ 0.5 \ 0.0$
 $lab^*tce = 0.25 \ 0.5 \ 1.0$
 $lab^*nce = 0.5 \ 0.5 \ b99r$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.024 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.976 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 0.024 \ 0.0 \ 1.0$
 $cmyn4^* = 0.0 \ 0.976 \ 1.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 48.21 \ 82.61 \ 39.36$
 $LAB^*LABa = 48.21 \ 82.57 \ 39.35$
 $LAB^*TCHa = 50.0 \ 91.46 \ 25.48$

relative CIELAB lab*
 $lab^*lab = 0.441 \ 0.903 \ 0.43$
 $lab^*tch = 0.5 \ 1.0 \ 0.071$
 $lab^*nch = 0.0 \ 1.0 \ 0.071$
relative Natural Colour (NC)
 $lab^*lrj = 0.441 \ 1.0 \ 0.0$
 $lab^*tce = 0.5 \ 1.0 \ 1.0$
 $lab^*nce = 0.0 \ 1.0 \ b99r$

Siehe ähnliche Dateien: <http://www.ps.bam.de/TG09/>
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ

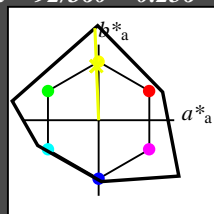
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Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen, Yr=2.5, XYZ
/TG09/ Form: 7/10, Serie: 1/1, Seite: 7 Seitenhang 7

Eingabe: Farbmétrisches 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
olv*Ma: 0.97 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

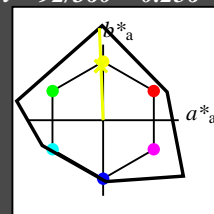
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	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

Ausgabe: Farbmétrisches 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
olv*Ma: 0.97 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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
 $LAB^*LAB = 95.41 \ 0.0 \ -0.01$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

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
 $LAB^*LAB = 53.21 \ 0.04 \ 0.0$
 $LAB^*LABa = 53.21 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 11.01 \ 0.07 \ 0.01$
 $LAB^*LABa = 11.01 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.984 \ 1.0 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.016 \ 0.0 \ 0.5 \ (0.0)$
 $olvi4^* = 0.984 \ 1.0 \ 0.5 \ 1.0$
 $cmyn4^* = 0.016 \ 0.0 \ 0.5 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 92.92 \ -2.44 \ 60.89$
 $LAB^*LABa = 92.92 \ -2.46 \ 60.89$
 $LAB^*TCHa = 75.0 \ 60.94 \ 92.32$

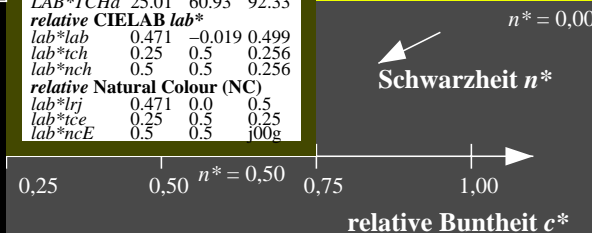
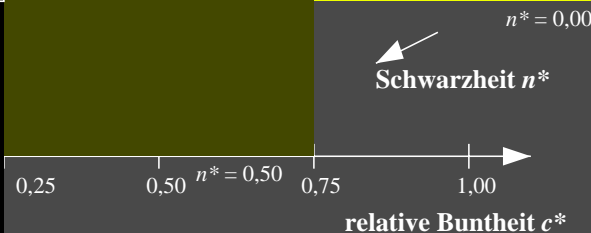
relative CIELAB lab*
 $lab^*lab = 0.971 \ -0.019 \ 0.499$
 $lab^*tch = 0.75 \ 0.5 \ 0.256$
 $lab^*nch = 0.0 \ 0.5 \ 0.256$
relative Natural Colour (NC)
 $lab^*lrj = 0.971 \ 0.0 \ 0.5$
 $lab^*tce = 0.75 \ 0.5 \ 0.25$
 $lab^*nce = 0.0 \ 0.5 \ r99j$

relative Inform. Technology (IT)
 $olvi3^* = 0.484 \ 0.5 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.516 \ 0.5 \ 1.0 \ (0.0)$
 $olvi4^* = 0.984 \ 1.0 \ 0.5 \ 0.5$
 $cmyn4^* = 0.016 \ 0.0 \ 0.5 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 50.72 \ -2.42 \ 60.89$
 $LAB^*LABa = 50.72 \ -2.47 \ 60.88$
 $LAB^*TCHa = 25.01 \ 60.93 \ 92.33$

relative CIELAB lab*
 $lab^*lab = 0.471 \ -0.019 \ 0.499$
 $lab^*tch = 0.25 \ 0.5 \ 0.256$
 $lab^*nch = 0.5 \ 0.5 \ 0.256$
relative Natural Colour (NC)
 $lab^*lrj = 0.471 \ 0.0 \ 0.5$
 $lab^*tce = 0.25 \ 0.5 \ 0.25$
 $lab^*nce = 0.5 \ 0.5 \ r00g$

relative Inform. Technology (IT)
 $olvi3^* = 0.967 \ 1.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.033 \ 0.0 \ 1.0 \ (0.0)$
 $olvi4^* = 0.968 \ 1.0 \ 0.0 \ 1.0$
 $cmyn4^* = 0.032 \ 0.0 \ 1.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 90.45 \ -4.92 \ 121.77$
 $LAB^*LABa = 90.45 \ -4.93 \ 121.77$
 $LAB^*TCHa = 50.0 \ 121.87 \ 92.32$

relative CIELAB lab*
 $lab^*lab = 0.941 \ -0.04 \ 0.999$
 $lab^*tch = 0.5 \ 1.0 \ 0.256$
 $lab^*nch = 0.0 \ 1.0 \ 0.256$
relative Natural Colour (NC)
 $lab^*lrj = 0.941 \ 0.0 \ 1.0$
 $lab^*tce = 0.5 \ 1.0 \ 0.25$
 $lab^*nce = 0.0 \ 1.0 \ r99j$

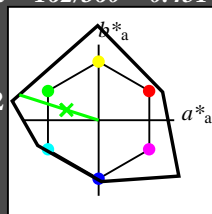


Eingabe: Farbmétrisches Reflexions-System NCS11

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

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

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

NCS11; adaptierte CIELAB-Daten

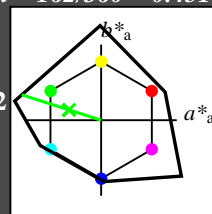
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	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

Ausgabe: Farbmétrisches 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
olv*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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
 $LAB^*LAB = 95.41 \ 0.0 \ -0.01$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

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
 $LAB^*LAB = 53.21 \ 0.04 \ 0.0$
 $LAB^*LABa = 53.21 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 11.01 \ 0.07 \ 0.01$
 $LAB^*LABa = 11.01 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.541 \ 1.0 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.459 \ 0.0 \ 0.5 \ (0.0)$
 $olvi4^* = 0.541 \ 1.0 \ 0.5 \ 1.0$
 $cmyn4^* = 0.459 \ 0.0 \ 0.5 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 80.4 \ -52.43 \ 16.79$
 $LAB^*LABa = 80.4 \ -52.45 \ 16.79$
 $LAB^*TCHa = 75.0 \ 55.08 \ 162.25$

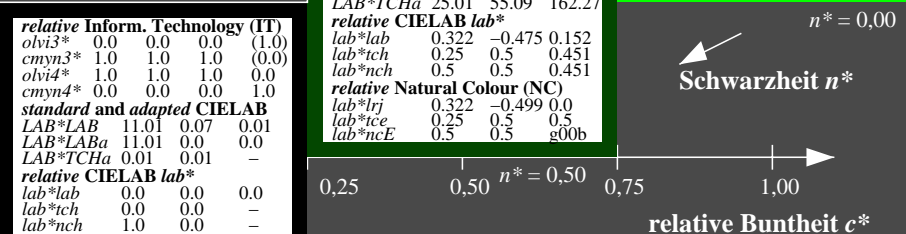
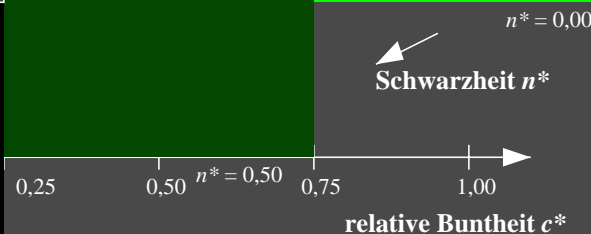
relative CIELAB lab*
 $lab^*lab = 0.822 \ -0.475 \ 0.152$
 $lab^*tch = 0.75 \ 0.5 \ 0.451$
 $lab^*nch = 0.0 \ 0.5 \ 0.451$
relative Natural Colour (NC)
 $lab^*lrj = 0.822 \ -0.499 \ 0.0$
 $lab^*tce = 0.75 \ 0.5 \ 0.5$
 $lab^*nce = 0.0 \ 0.5 \ g00b$

relative Inform. Technology (IT)
 $olvi3^* = 0.041 \ 0.5 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.959 \ 0.5 \ 1.0 \ (0.0)$
 $olvi4^* = 0.541 \ 1.0 \ 0.5 \ 0.5$
 $cmyn4^* = 0.459 \ 0.0 \ 0.5 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 38.2 \ -52.41 \ 16.8$
 $LAB^*LABa = 38.2 \ -52.46 \ 16.78$
 $LAB^*TCHa = 25.01 \ 55.09 \ 162.27$

relative CIELAB lab*
 $lab^*lab = 0.322 \ -0.475 \ 0.152$
 $lab^*tch = 0.25 \ 0.5 \ 0.451$
 $lab^*nch = 0.5 \ 0.5 \ 0.451$
relative Natural Colour (NC)
 $lab^*lrj = 0.322 \ -0.499 \ 0.0$
 $lab^*tce = 0.25 \ 0.5 \ 0.5$
 $lab^*nce = 0.5 \ 0.5 \ g00b$

relative Inform. Technology (IT)
 $olvi3^* = 0.083 \ 1.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.917 \ 0.0 \ 1.0 \ (0.0)$
 $olvi4^* = 0.083 \ 1.0 \ 0.0 \ 1.0$
 $cmyn4^* = 0.917 \ 0.0 \ 1.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 65.41 \ -104.893 \ 58$
 $LAB^*LABa = 65.41 \ -104.923 \ 57$
 $LAB^*TCHa = 50.0 \ 110.17 \ 162.26$

relative CIELAB lab*
 $lab^*lab = 0.645 \ -0.951 \ 0.305$
 $lab^*tch = 0.5 \ 1.0 \ 0.451$
 $lab^*nch = 0.0 \ 1.0 \ 0.451$
relative Natural Colour (NC)
 $lab^*lrj = 0.645 \ -0.999 \ 0.0$
 $lab^*tce = 0.5 \ 1.0 \ 0.5$
 $lab^*nce = 0.0 \ 1.0 \ g00b$



TG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

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

BAM-Prüfvorlage TG09; Farbmétrik-Systeme NCS11a & NCS11aput: $olv^*setrgbcolor$

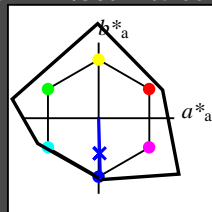
D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput: $olv^*setrgbcolor / w^*setgray$

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
olv*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

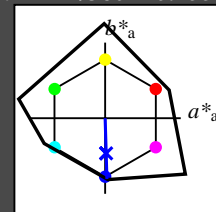
NCS11; adaptierte CIELAB-Daten	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	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

Ausgabe: 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
olv*Ma: 0.0 0.02 1.0

Dreiecks-Helligkeit t^*



%Umfang
 $u^*_{rel} = 149$
%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

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

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
 $LAB^*TCHa = 99.99$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0
 $lab^*tch = 1.0$ 0.0 -
 $lab^*nch = 0.0$ 0.0 -
relative Natural Colour (NC)
 $lab^*lrj = 1.0$ 0.0 0.0
 $lab^*tce = 1.0$ 0.0 -
 $lab^*nce = 0.0$ 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
 $LAB^*LAB = 53.21$ 0.04 0.0
 $LAB^*LABa = 53.21$ 0.0 0.0
 $LAB^*TCHa = 50.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0
 $lab^*tch = 0.5$ 0.0 -
 $lab^*nch = 0.5$ 0.0 -
relative Natural Colour (NC)
 $lab^*lrj = 0.5$ 0.0 0.0
 $lab^*tce = 0.5$ 0.0 -
 $lab^*nce = 0.5$ 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 0.0
 $cmyn4^* = 0.0$ 0.0 0.0 1.0
standard and adapted CIELAB
 $LAB^*LAB = 11.01$ 0.07 0.01
 $LAB^*LABa = 11.01$ 0.0 0.0
 $LAB^*TCHa = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0
 $lab^*tch = 0.0$ 0.0 -
 $lab^*nch = 1.0$ 0.0 -
relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0
 $lab^*tce = 0.0$ 0.0 -
 $lab^*nce = 1.0$ 0.0 -

relative Inform. Technology (IT)
 $olvi3^* = 0.5$ 0.508 1.0 (1.0)
 $cmyn3^* = 0.5$ 0.492 0.0 (0.0)
 $olvi4^* = 0.5$ 0.508 1.0 1.0
 $cmyn4^* = 0.5$ 0.492 0.0 0.0
standard and adapted CIELAB
 $LAB^*LAB = 72.29$ 1.2 -40.21
 $LAB^*LABa = 72.29$ 1.17 -40.21
 $LAB^*TCHa = 75.0$ 40.24 271.66

relative CIELAB lab*
 $lab^*lab = 0.726$ 0.014 -0.499
 $lab^*tch = 0.75$ 0.5 0.755
 $lab^*nch = 0.0$ 0.5 0.755
relative Natural Colour (NC)
 $lab^*lrj = 0.726$ 0.0 -0.499
 $lab^*tce = 0.75$ 0.5 0.75
 $lab^*nce = 0.0$ 0.5 0.755

relative Inform. Technology (IT)
 $olvi3^* = 0.0$ 0.008 0.5 (1.0)
 $cmyn3^* = 1.0$ 0.992 0.5 (0.0)
 $olvi4^* = 0.5$ 0.508 1.0 0.5
 $cmyn4^* = 0.5$ 0.492 0.0 0.5
standard and adapted CIELAB
 $LAB^*LAB = 30.09$ 1.24 -40.2
 $LAB^*LABa = 30.09$ 1.18 -40.21
 $LAB^*TCHa = 25.01$ 40.24 271.67

relative CIELAB lab*
 $lab^*lab = 0.226$ 0.015 -0.499
 $lab^*tch = 0.25$ 0.5 0.755
 $lab^*nch = 0.5$ 0.5 0.755
relative Natural Colour (NC)
 $lab^*lrj = 0.226$ 0.0 -0.499
 $lab^*tce = 0.25$ 0.5 0.75
 $lab^*nce = 0.5$ 0.5 0.755

relative Inform. Technology (IT)
 $olvi3^* = 0.0$ 0.016 1.0 (1.0)
 $cmyn3^* = 1.0$ 0.984 0.0 (0.0)
 $olvi4^* = 0.0$ 0.016 1.0 1.0
 $cmyn4^* = 1.0$ 0.984 0.0 0.0
standard and adapted CIELAB
 $LAB^*LAB = 49.18$ 2.39 -80.42
 $LAB^*LABa = 49.18$ 2.34 -80.43
 $LAB^*TCHa = 50.0$ 80.48 271.67

relative CIELAB lab*
 $lab^*lab = 0.452$ 0.029 -0.998
 $lab^*tch = 0.5$ 1.0 0.755
 $lab^*nch = 0.0$ 1.0 0.755
relative Natural Colour (NC)
 $lab^*lrj = 0.452$ 0.0 -0.999
 $lab^*tce = 0.5$ 1.0 0.75
 $lab^*nce = 0.0$ 1.0 0.755