

Eingabe: Farbmetrisches Reflexions-System MRS18

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

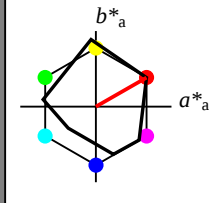
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



%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 47.5
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*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*trc 1.0 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 1.0 0.75 0.75 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olvi4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 83.96 15.97 13.58
LAB*LABa 83.96 16.73 9.59
LAB*LABb 83.96 16.73 9.59
relative CIELAB lab*
lab*lab 0.852 0.217 0.124
lab*ch 0.875 0.25 0.083
lab*nch 0.0 0.25 0.083
relative Natural Colour (NC)
lab*trj 0.852 0.248 0.03
lab*trc 0.875 0.25 0.019
lab*ncc 0.0 0.25 0.019

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 72.52 32.93 22.4
LAB*LABa 72.52 33.47 19.18
LAB*LABb 72.52 33.47 19.18
relative CIELAB lab*
lab*lab 0.704 0.434 0.249
lab*ch 0.75 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.704 0.496 0.06
lab*trc 0.75 0.5 0.019
lab*ncc 0.0 0.5 0.019

relative Inform. Technology (IT)
olvi3* 1.0 0.25 0.25 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olvi4* 1.0 0.25 0.25 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 61.07 49.89 31.22
LAB*LABa 61.07 50.21 28.78
LAB*LABb 61.07 50.21 28.78
relative CIELAB lab*
lab*lab 0.559 0.651 0.373
lab*ch 0.625 0.75 0.083
lab*nch 0.0 0.75 0.083
relative Natural Colour (NC)
lab*trj 0.559 0.745 0.09
lab*trc 0.625 0.75 0.019
lab*ncc 0.0 0.75 0.019

relative Inform. Technology (IT)
olvi3* 1.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.00 77.16 29.82
LAB*LABa 50.00 77.16 29.82
LAB*LABb 50.00 77.16 29.82
relative CIELAB lab*
lab*lab 0.409 0.867 0.497
lab*ch 0.5 1.0 0.083
lab*nch 0.0 1.0 0.083
relative Natural Colour (NC)
lab*trj 0.409 0.993 0.119
lab*trc 0.5 1.0 0.019
lab*ncc 0.0 1.0 0.019

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 41.73 50.26 29.91
LAB*LABa 41.73 50.21 28.78
LAB*LABb 41.73 50.21 28.78
relative CIELAB lab*
lab*lab 0.306 0.651 0.373
lab*ch 0.375 0.75 0.083
lab*nch 0.0 0.75 0.083
relative Natural Colour (NC)
lab*trj 0.306 0.745 0.09
lab*trc 0.375 0.75 0.019
lab*ncc 0.0 0.75 0.019

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 33.62 33.67 19.79
LAB*LABa 33.62 33.67 19.79
LAB*LABb 33.62 33.67 19.79
relative CIELAB lab*
lab*lab 0.204 0.434 0.249
lab*ch 0.25 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.204 0.496 0.06
lab*trc 0.25 0.5 0.019
lab*ncc 0.0 0.5 0.019

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 25.00 75.00 29.82
LAB*LABa 25.00 75.00 29.82
LAB*LABb 25.00 75.00 29.82
relative CIELAB lab*
lab*lab 0.102 0.217 0.124
lab*ch 0.125 0.25 0.083
lab*nch 0.0 0.25 0.083
relative Natural Colour (NC)
lab*trj 0.102 0.248 0.03
lab*trc 0.125 0.25 0.019
lab*ncc 0.0 0.25 0.019

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 18.02 18.02 0.46
LAB*LABa 18.02 18.02 0.46
LAB*LABb 18.02 18.02 0.46
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 11.01 11.01 0.01
LAB*LABa 11.01 11.01 0.01
LAB*LABb 11.01 11.01 0.01
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 0.0 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
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

1.00

0.75

0.50

0.25

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Ausgabe: Farbmetrisches Reflexions-System NCS11

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

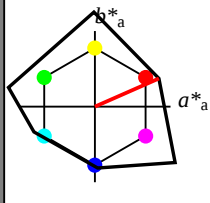
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

NCS11; adaptierte CIELAB-Daten					
	L*=L*a	a*a	b*a	C* _{ab,a}	h* _{ab,a}
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

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

1.00

0.75

0.50

0.25

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

TG53-7, 5 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (links)

5 stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.066 (rechts)

BAM-Prüfvorlage TG53; Farbmetrik-Systeme MRS18 & NCS11

D65: 2 Koordinaten-Daten von 25stufigen Farbreihen für 10 Bunttonen

input: olv* setrgbcolor
output: no change compared to input

Eingabe: Farbmetrisches Reflexions-System MRS18

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

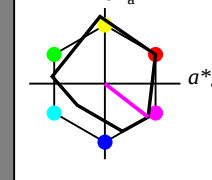
lab^*tch und lab^*nch

D65: Buntton B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



MRS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 47.5
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.01 -

relative Inform. Technology (IT)
olvi3* 1.0 0.75 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 0.75 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.29 13.6 -7.31
LAB*LAB 80.29 14.29 -11.05
LAB*LAB 87.5 18.07 322.25

relative Inform. Technology (IT)
olvi3* 1.0 0.5 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.17 28.58 -19.4
LAB*LAB 65.17 28.58 -22.12
LAB*LAB 75.0 36.15 322.25

relative Inform. Technology (IT)
olvi3* 1.0 0.25 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 0.25 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.06 42.76 -31.48
LAB*LAB 50.06 42.76 -33.19
LAB*LAB 62.5 54.22 322.25

relative Inform. Technology (IT)
olvi3* 1.0 0.0 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 0.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 34.95 57.34 -43.57
LAB*LAB 34.95 57.34 -44.25
LAB*LAB 50.0 72.29 322.25

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.75 0.75 0.75 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 21.9 64.8 -7.6
LAB*LAB 21.9 64.8 -7.6
LAB*LAB 32.11 0.0 1.44

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 16.48 26.52 -18.46
LAB*LAB 16.48 26.52 -18.46
LAB*LAB 32.11 0.0 1.44

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 0.25 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 12.5 32.32 325.12
LAB*LAB 12.5 32.32 325.12
LAB*LAB 32.11 0.0 1.44

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.0 1.44

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.0 1.44

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 0.25 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.26 13.0 0.63
LAB*LAB 37.26 13.0 0.63
LAB*LAB 50.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 75.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.75 0.75 0.75 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 95.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.46
LAB*LAB 18.02 18.02 0.46
LAB*LAB 32.11 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*LAB 32.11 0.01 -

TG53-7, 5 stufige Reihen für konstanten CIELAB Buntton 322/360 = 0.895 (links)

5 stufige Reihen für konstanten CIELAB Buntton 325/360 = 0.903 (rechts)

BAM-Prüfvorlage TG53; Farbmetrik-Systeme MRS18 & NCS11

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

Output: no change compared to input

98

