

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

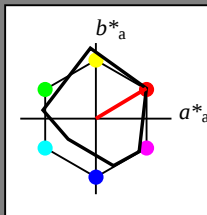
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 92$

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

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	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	16.71	10.0
LAB*LABa	83.96	16.69	10.0
LAB*LABb	97.5	19.46	30.93

relative CIELAB lab*

lab*lab	0.852	0.214	0.128
lab*tch	0.875	0.25	0.086
lab*nch	0.0	0.25	0.086

relative Natural Colour (NC)

lab*trj	0.852	0.248	0.032
lab*tce	0.875	0.25	0.02
lab*nce	0.0	0.25	0.086

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	33.43	20.01
LAB*LABa	72.52	33.39	20.01
LAB*LABb	75.0	38.93	30.93

relative CIELAB lab*

lab*lab	0.704	0.429	0.257
lab*tch	0.75	0.5	0.086
lab*nch	0.0	0.5	0.086

relative Natural Colour (NC)

lab*trj	0.704	0.496	0.064
lab*tce	0.75	0.5	0.02
lab*nce	0.0	0.5	0.086

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	50.14	30.03
LAB*LABa	61.07	50.09	30.01
LAB*LABb	62.5	58.39	30.93

relative CIELAB lab*

lab*lab	0.559	0.643	0.385
lab*tch	0.625	0.75	0.086
lab*nch	0.0	0.75	0.086

relative Natural Colour (NC)

lab*trj	0.559	0.744	0.096
lab*tce	0.625	0.75	0.02
lab*nce	0.0	0.75	0.086

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	49.63	66.84	40.03
LAB*LABa	49.63	66.78	40.02
LAB*LABb	50.0	77.85	30.93

relative CIELAB lab*

lab*lab	0.469	0.858	0.514
lab*tch	0.5	1.0	0.086
lab*nch	0.0	1.0	0.086

relative Natural Colour (NC)

lab*trj	0.469	0.992	0.128
lab*tce	0.5	1.0	0.02
lab*nce	0.0	1.0	0.086

relative Inform. Technology (IT)

olvi3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	1.0	1.0	(0.0)
olvi4*	0.75	0.0	0.0	(1.0)
cmyn4*	0.25	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*LAB	33.17	33.46	20.03
LAB*LABa	33.17	33.4	20.01
LAB*LABb	33.17	33.4	20.01

relative CIELAB lab*

lab*lab	0.332	0.214	0.128
lab*tch	0.375	0.25	0.086
lab*nch	0.0	0.25	0.086

relative Natural Colour (NC)

lab*trj	0.332	0.248	0.032
lab*tce	0.375	0.25	0.02
lab*nce	0.0	0.25	0.086

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	0.5	0.0	0.0	(1.0)
cmyn4*	0.5	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	33.17	33.46	20.03
LAB*LABa	33.17	33.4	20.01
LAB*LABb	33.17	33.4	20.01

relative CIELAB lab*

lab*lab	0.332	0.214	0.128
lab*tch	0.375	0.25	0.086
lab*nch	0.0	0.25	0.086

relative Natural Colour (NC)

lab*trj	0.332	0.248	0.032
lab*tce	0.375	0.25	0.02
lab*nce	0.0	0.25	0.086

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.0	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	0.25	0.0	0.0	(1.0)
cmyn4*	0.25	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	33.17	33.46	20.03
LAB*LABa	33.17	33.4	20.01
LAB*LABb	33.17	33.4	20.01

relative CIELAB lab*

lab*lab	0.332	0.214	0.128
lab*tch	0.375	0.25	0.086
lab*nch	0.0	0.25	0.086

relative Natural Colour (NC)

lab*trj	0.332	0.248	0.032
lab*tce	0.375	0.25	0.02
lab*nce	0.0	0.25	0.086

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	33.17	33.46	20.03
LAB*LABa	33.17	33.4	20.01
LAB*LABb	33.17	33.4	20.01

relative CIELAB lab*

lab*lab	0.332	0.214	0.128
lab*tch	0.375	0.25	0.086
lab*nch	0.0	0.25	0.086

relative Natural Colour (NC)

lab*trj	0.332	0.248	0.032
lab*tce	0.375	0.25	0.02
lab*nce	0.0	0.25	0.086

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	33.17	33.46	20.03
LAB*LABa	33.17	33.4	20.01
LAB*LABb	33.17	33.4	20.01

relative CIELAB lab*

lab*lab	0.332	0.214	0.128
lab*tch	0.375	0.25	0.086
lab*nch	0.0	0.25	0.086

relative Natural Colour (NC)

lab*trj	0.332	0.248	0.032
lab*tce	0.375	0.25	0.02
lab*nce	0.0	0.25	0.086

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	33.17	33.46	20.03
LAB*LABa	33.17	33.4	20.01
LAB*LABb	33.17	33.4	20.01

relative CIELAB lab*

lab*lab	0.332	0.214	0.128
lab*tch	0.375	0.25	0.086
lab*nch	0.0	0.25	0.086

relative Natural Colour (NC)

lab*trj	0.332	0.248	0.032
lab*tce	0.375	0.25	0.02
lab*nce	0.0	0.25	0.086

MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

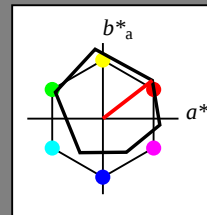
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	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	76.06	-0.344	0.0
LAB*LABa	76.06	0.0	0.0
LAB*LABb	75.0	0.01	0.0

relative CIELAB lab*

lab*lab	0.847	0.198	0.153
lab*tch	0.875	0.25	0.105
lab*nch	0.0	0.25	0.105

relative Natural Colour (NC)

lab*trj	0.847	0.238	0.075
lab*tce	0.875	0.25	0.048
lab*nce	0.0	0.25	0.191

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
cmyn4*	0.25	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	64.19	15.96	15.28
LAB*LABa	64.19	16.34	12.63
LAB*LABb	62.5	20.65	37.7

relative CIELAB lab*

lab*lab	0.593	0.396	0.306
lab*tch	0.625	0.5	0.105
lab*nch	0.0	0.5	0.105

relative Natural Colour (NC)

lab*trj	0.593	0.477	0.15
lab*tce	0.625	0.5	0.048
lab*nce	0.0	0.5	0.191

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	56.71	0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*LABb	50.0	0.01	0.0

relative CIELAB lab*

lab*lab	0.5	0.5	0.0
lab*tch	0.5	0.5	0.0
lab*nch	0.0	0.5	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.5	0.0
lab*tce	0.5	0.5	0.0
lab*nce	0.0	0.5	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	0.25	0.25	0.25	(1.0)
cmyn4*	0.25	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	56.71	0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*LABb	50.0	0.01	0.0

relative CIELAB lab*

lab*lab	0.5	0.5	0.0
lab*tch	0.5	0.5	0.0
lab*nch	0.0	0.5	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.5	0.0
lab*tce			

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

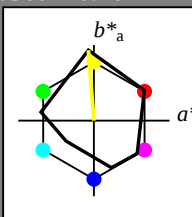
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

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 0.01 0.0
LAB*LABa 95.41 0.01 0.0
LAB*TCHa 99.99 0.01 0.0

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 94.22 -1.8 23.29
LAB*LABa 94.22 -1.81 23.29
LAB*TCHa 97.5 23.36 94.46

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 93.05 -3.61 46.59
LAB*LABa 93.05 -3.63 46.59
LAB*TCHa 75.0 46.73 94.46

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 91.87 -5.43 69.89
LAB*LABa 91.87 -5.45 69.89
LAB*TCHa 62.5 70.1 94.46

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 90.69 -7.36 93.17
LAB*LABa 90.69 -7.36 93.18
LAB*TCHa 50.0 93.46 94.46

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 89.69 -9.23 91.17
LAB*LABa 89.69 -9.23 91.18
LAB*TCHa 50.0 93.46 94.46

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 87.71 -11.15 91.17
LAB*LABa 87.71 -11.15 91.18
LAB*TCHa 50.0 93.46 94.46

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 85.73 -13.10 91.17
LAB*LABa 85.73 -13.10 91.18
LAB*TCHa 50.0 93.46 94.46

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 83.75 -15.05 91.17
LAB*LABa 83.75 -15.05 91.18
LAB*TCHa 50.0 93.46 94.46

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 81.77 -17.00 91.17
LAB*LABa 81.77 -17.00 91.18
LAB*TCHa 50.0 93.46 94.46

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 79.79 -18.95 91.17
LAB*LABa 79.79 -18.95 91.18
LAB*TCHa 50.0 93.46 94.46

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 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 50.0 0.01 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 55.25 -1.75 23.31
LAB*LABa 55.25 -1.81 23.31
LAB*TCHa 37.5 23.37 94.46

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 53.27 -3.67 46.6
LAB*LABa 53.27 -3.63 46.59
LAB*TCHa 25.01 46.73 94.46

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 51.29 -5.41 69.89
LAB*LABa 51.29 -5.45 69.89
LAB*TCHa 25.01 46.73 94.46

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 49.31 -7.36 93.17
LAB*LABa 49.31 -7.36 93.18
LAB*TCHa 25.01 46.73 94.46

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 47.33 -9.23 91.17
LAB*LABa 47.33 -9.23 91.18
LAB*TCHa 25.01 46.73 94.46

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 45.35 -11.15 91.17
LAB*LABa 45.35 -11.15 91.18
LAB*TCHa 25.01 46.73 94.46

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 43.37 -13.10 91.17
LAB*LABa 43.37 -13.10 91.18
LAB*TCHa 25.01 46.73 94.46

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 41.39 -15.05 91.17
LAB*LABa 41.39 -15.05 91.18
LAB*TCHa 25.01 46.73 94.46

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 39.41 -17.00 91.17
LAB*LABa 39.41 -17.00 91.18
LAB*TCHa 25.01 46.73 94.46

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 37.43 -18.95 91.17
LAB*LABa 37.43 -18.95 91.18
LAB*TCHa 25.01 46.73 94.46

TE560-7, 5 step scales for constant CIELAB hue 94/360 = 0.262 (left)

5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

BAM-test chart TE56; Colorimetric systems MRS18a & ORS18 input: $olv^* setrgbcolor$

D65: 2 coordinate data of 5 step colour scales for 10 hues

output: no change compared to input

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 171/360 = 0.475$

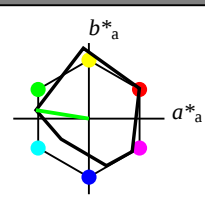
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



MRS18a; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

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)
olvi7*	0.0	0.0	0.0	(0.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	0.0	0.0	0.0	(0.0)
olvi10*	0.0	0.0	0.0	(0.0)
olvi11*	0.0	0.0	0.0	(0.0)
olvi12*	0.0	0.0	0.0	(0.0)
olvi13*	0.0	0.0	0.0	(0.0)
olvi14*	0.0	0.0	0.0	(0.0)
olvi15*	0.0	0.0	0.0	(0.0)
olvi16*	0.0	0.0	0.0	(0.0)
olvi17*	0.0	0.0	0.0	(0.0)
olvi18*	0.0	0.0	0.0	(0.0)
olvi19*	0.0	0.0	0.0	(0.0)
olvi20*	0.0	0.0	0.0	(0.0)
olvi21*	0.0	0.0	0.0	(0.0)
olvi22*	0.0	0.0	0.0	(0.0)
olvi23*	0.0	0.0	0.0	(0.0)
olvi24*	0.0	0.0	0.0	(0.0)
olvi25*	0.0	0.0	0.0	(0.0)
olvi26*	0.0	0.0	0.0	(0.0)
olvi27*	0.0	0.0	0.0	(0.0)
olvi28*	0.0	0.0	0.0	(0.0)
olvi29*	0.0	0.0	0.0	(0.0)
olvi30*	0.0	0.0	0.0	(0.0)
olvi31*	0.0	0.0	0.0	(0.0)
olvi32*	0.0	0.0	0.0	(0.0)
olvi33*	0.0	0.0	0.0	(0.0)
olvi34*	0.0	0.0	0.0	(0.0)
olvi35*	0.0	0.0	0.0	(0.0)
olvi36*	0.0	0.0	0.0	(0.0)
olvi37*	0.0	0.0	0.0	(0.0)
olvi38*	0.0	0.0	0.0	(0.0)
olvi39*	0.0	0.0	0.0	(0.0)
olvi40*	0.0	0.0	0.0	(0.0)
olvi41*	0.0	0.0	0.0	(0.0)
olvi42*	0.0	0.0	0.0	(0.0)
olvi43*	0.0	0.0	0.0	(0.0)
olvi44*	0.0	0.0	0.0	(0.0)
olvi45*	0.0	0.0	0.0	(0.0)
olvi46*	0.0	0.0	0.0	(0.0)
olvi47*	0.0	0.0	0.0	(0.0)
olvi48*	0.0	0.0	0.0	(0.0)
olvi49*	0.0	0.0	0.0	(0.0)
olvi50*	0.0	0.0	0.0	(0.0)
olvi51*	0.0	0.0	0.0	(0.0)
olvi52*	0.0	0.0	0.0	(0.0)
olvi53*	0.0	0.0	0.0	(0.0)
olvi54*	0.0	0.0	0.0	(0.0)
olvi55*	0.0	0.0	0.0	(0.0)
olvi56*	0.0	0.0	0.0	(0.0)
olvi57*	0.0	0.0	0.0	(0.0)
olvi58*	0.0	0.0	0.0	(0.0)
olvi59*	0.0	0.0	0.0	(0.0)
olvi60*	0.0	0.0	0.0	(0.0)
olvi61*	0.0	0.0	0.0	(0.0)
olvi62*	0.0	0.0	0.0	(0.0)
olvi63*	0.0	0.0	0.0	(0.0)
olvi64*	0.0	0.0	0.0	(0.0)
olvi65*	0.0	0.0	0.0	(0.0)
olvi66*	0.0	0.0	0.0	(0.0)
olvi67*	0.0	0.0	0.0	(0.0)
olvi68*	0.0	0.0	0.0	(0.0)
olvi69*	0.0	0.0	0.0	(0.0)
olvi70*	0.0	0.0	0.0	(0.0)
olvi71*	0.0	0.0	0.0	(0.0)
olvi72*	0.0	0.0	0.0	(0.0)
olvi73*	0.0	0.0	0.0	(0.0)
olvi74*	0.0	0.0	0.0	(0.0)
olvi75*	0.0	0.0	0.0	(0.0)
olvi76*	0.0	0.0	0.0	(0.0)
olvi77*	0.0	0.0	0.0	(0.0)
olvi78*	0.0	0.0	0.0	(0.0)
olvi79*	0.0	0.0	0.0	(0.0)
olvi80*	0.0	0.0	0.0	(0.0)
olvi81*	0.0	0.0	0.0	(0.0)
olvi82*	0.0	0.0	0.0	(0.0)
olvi83*	0.0	0.0	0.0	(0.0)
olvi84*	0.0	0.0	0.0	(0.0)
olvi85*	0.0	0.0	0.0	(0.0)
olvi86*	0.0	0.0	0.0	(0.0)
olvi87*	0.0	0.0	0.0	(0.0)
olvi88*	0.0	0.0	0.0	(0.0)
olvi89*	0.0	0.0	0.0	(0.0)
olvi90*	0.0	0.0	0.0	(0.0)
olvi91*	0.0	0.0	0.0	(0.0)
olvi92*	0.0	0.0	0.0	(0.0)
olvi93*	0.0	0.0	0.0	(0.0)
olvi94*	0.0	0.0	0.0	(0.0)
olvi95*	0.0	0.0	0.0	(0.0)
olvi96*	0.0	0.0	0.0	(0.0)
olvi97*	0.0	0.0	0.0	(0.0)
olvi98*	0.0	0.0	0.0	(0.0)
olvi99*	0.0	0.0	0.0	(0.0)
olvi100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	0.75	1.0	0.75	(1.0)
olvi4*	0.25	0.0	0.25	(0.0)
olvi5*	0.75	1.0	0.75	(1.0)
olvi6*	0.25	0.0	0.25	(0.0)
olvi7*	0.75	1.0	0.75	(1.0)
olvi8*	0.25	0.0	0.25	(0.0)
olvi9*	0.75	1.0	0.75	(1.0)
olvi10*	0.25	0.0	0.25	(0.0)
olvi11*	0.75	1.0	0.75	(1.0)
olvi12*	0.25	0.0	0.25	(0.0)
olvi13*	0.75	1.0	0.75	(1.0)
olvi14*	0.25	0.0	0.25	(0.0)
olvi15*	0.75	1.0	0.75	(1.0)
olvi16*	0.25	0.0	0.25	(0.0)
olvi17*	0.75	1.0	0.75	(1.0)
olvi18*	0.25	0.0	0.25	(0.0)
olvi19*	0.75	1.0	0.75	(1.0)
olvi20*	0.25	0.0	0.25	(0.0)
olvi21*	0.75	1.0	0.75	(1.0)
olvi22*	0.25	0.0	0.25	(0.0)
olvi23*	0.75	1.0	0.75	(1.0)
olvi24*	0.25	0.0	0.25	(0.0)
olvi25*	0.75	1.0	0.75	(1.0)
olvi26*	0.25	0.0	0.25	(0.0)
olvi27*	0.75	1.0	0.75	(1.0)
olvi28*	0.25	0.0	0.25	(0.0)
olvi29*	0.75	1.0	0.75	(1.0)
olvi30*	0.25	0.0	0.25	(0.0)
olvi31*	0.75	1.0	0.75	(1.0)
olvi32*	0.25	0.0	0.25	(0.0)
olvi33*	0.75	1.0	0.75	(1.0)
olvi34*	0.25	0.0	0.25	(0.0)
olvi35*	0.75	1.0	0.75	(1.0)
olvi36*	0.25	0.0	0.25	(0.0)
olvi37*	0.75	1.0	0.75	(1.0)
olvi38*	0.25	0.0	0.25	(0.0)
olvi39*	0.75	1.0	0.75	(1.0)
olvi40*	0.25	0.0	0.25	(0.0)
olvi41*	0.75	1.0	0.75	(1.0)
olvi42*	0.25	0.0	0.25	(0.0)
olvi43*	0.75	1.0	0.75	(1.0)
olvi44*	0.25	0.0	0.25	(0.0)
olvi45*	0.75	1.0	0.75	(1.0)
olvi46*	0.25	0.0	0.25	(0.0)
olvi47*	0.75	1.0	0.75	(1.0)
olvi48*	0.25	0.0	0.25	(0.0)
olvi49*	0.75	1.0	0.75	(1.0)
olvi50*	0.25	0.0	0.25	(0.0)
olvi51*	0.75	1.0	0.75	(1.0)
olvi52*	0.25	0.0	0.25	(0.0)
olvi53*	0.75	1.0	0.75	(1.0)
olvi54*	0.25	0.0	0.25	(0.0)
olvi55*	0.75	1.0	0.75	(1.0)
olvi56*	0.25	0.0	0.25	(0.0)
olvi57*	0.75	1.0	0.75	(1.0)
olvi58*	0.25	0.0	0.25	(0.0)
olvi59*	0.75	1.0	0.75	(1.0)
olvi60*	0.25	0.0	0.25	(0.0)
olvi61*	0.75	1.0	0.75	(1.0)
olvi62*	0.25	0.0	0.25	(0.0)
olvi63*	0.75	1.0	0.75	(1.0)
olvi64*	0.25	0.0	0.25	(0.0)
olvi65*	0.75	1.0	0.75	(1.0)
olvi66*	0.25	0.0	0.25	(0.0)
olvi67*	0.75	1.0	0.75	(1.0)
olvi68*	0.25	0.0	0.25	(0.0)
olvi69*	0.75	1.0	0.75	(1.0)
olvi70*	0.25	0.0	0.25	(0.0)
olvi71*	0.75	1.0	0.75	(1.0)
olvi72*	0.25	0.0	0.25	(0.0)
olvi73*	0.75	1.0	0.75	(1.0)
olvi74*	0.25	0.0	0.25	(0.0)
olvi75*	0.75	1.0	0.75	(1.0)
olvi76*	0.25	0.0	0.25	(0.0)
olvi77*	0.75	1.0	0.75	(1.0)
olvi78*	0.25	0.0	0.25	(0.0)
olvi79*	0.75	1.0	0.75	(1.0)
olvi80*	0.25	0.0	0.25	(0.0)
olvi81*	0.75	1.0	0.75	(1.0)
olvi82*	0.25	0.0	0.25	(0.0)
olvi83*	0.75	1.0	0.75	(1.0)
olvi84*	0.25	0.0	0.25	(0.0)
olvi85*	0.75	1.0	0.75	(1.0)
olvi86*	0.25	0.0	0.25	(0.0)
olvi87*	0.75	1.0	0.75	(1.0)
olvi88*	0.25	0.0	0.25	(0.0)
olvi89*	0.75	1.0	0.75	(1.0)
olvi90*	0.25	0.0	0.25	(0.0)
olvi91*	0.75	1.0	0.75	(1.0)
olvi92*	0.25	0.0	0.25	(0.0)
olvi93*	0.75	1.0	0.75	(1.0)
olvi94*	0.25	0.0	0.25	(0.0)
olvi95*	0.75	1.0	0.75	(1.0)
olvi96*	0.25	0.0	0.25	(0.0)
olvi97*	0.75	1.0	0.75	(1.0)
olvi98*	0.25	0.0	0.25	(0.0)
olvi99*	0.75	1.0	0.75	(1.0)
olvi100*	0.25	0.0	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.5)
olvi4*	0.5	0.5	0.5	(0.5)
olvi5*	0.5	0.5	0.5	(0.5)
olvi6*	0.5	0.5	0.5	(0.5)
olvi7*	0.5	0.5	0.5	(0.5)
olvi8*	0.5	0.5	0.5	(0.5)
olvi9*	0.5	0.5	0.5	(0.5)
olvi10*	0.5	0.5	0.5	(0.5)
olvi11*	0.5	0.5	0.5	(0.5)
olvi12*	0.5	0.5	0.5	(0.5)
olvi13*	0.5	0.5	0.5	(0.5)
olvi14*	0.5	0.5	0.5	(0.5)
olvi15*	0.5	0.5	0.5	(0.5)
olvi16*	0.5	0.5	0.5	(0.5)
olvi17*	0.5	0.5	0.5	(0.5)
olvi18*	0.5	0.5	0.5	(0.5)
olvi19*	0.5	0.5	0.5	(0.5)
olvi20*	0.5	0.5	0.5	(0.5)
olvi21*	0.5	0.5	0.5	(0.5)
olvi22*	0.5	0.5	0.5	(0.5)
olvi23*	0.5	0.5	0.5	(0.5)
olvi24*	0.5	0.5	0.5	(0.5)
olvi25*	0.5	0.5	0.5	(0.5)
olvi26*	0.5	0.5	0.5	(0.5)
olvi27*	0.5	0.5	0.5	(0.5)
olvi28*	0.5	0.5	0.5	(0.5)
olvi29*	0.5	0.5	0.5	(0.5)
olvi30*	0.5	0.5	0.5	(0.5)
olvi31*	0.5	0.5	0.5	(0.5)
olvi32*	0.5	0.5	0.5	(0.5)
olvi33*	0.5	0.5	0.5	(0.5)
olvi34*	0.5	0.5	0.5	(0.5)
olvi35*	0.5	0.5	0.5	(0.5)
olvi36*	0.5	0.5	0.5	(0.5)
olvi37*	0.5	0.5	0.5	(0.5)
olvi38*	0.5	0.5	0.5	(0.5)
olvi39*	0.5	0.5	0.5	(0.5)
olvi40*	0.5	0.5	0.5	(0.5)</

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

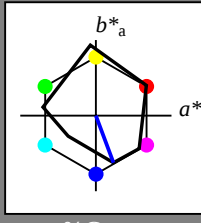
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



MRS18a; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
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B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

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 0.01 0.0
LAB*LABa 95.41 0.01 0.0
LAB*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 0.75 0.75 1.0 (1.0)
cmyn4* 0.25 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.84 -15.55
LAB*LABa 80.72 5.81 -15.55
LAB*TCHa 87.5 16.61 290.48

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 66.03 11.67 -31.12
LAB*LABa 66.03 11.63 -31.13
LAB*TCHa 75.0 33.24 290.48

relative Inform. Technology (IT)
olvi3* 0.25 0.25 1.0 (1.0)
cmyn3* 0.75 0.75 0.0 (0.0)
olvi4* 0.25 0.25 1.0 (1.0)
cmyn4* 0.75 0.75 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.34 17.5 -46.68
LAB*LABa 51.34 17.44 -46.7
LAB*TCHa 62.5 49.86 290.48

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 36.65 23.25 -62.26
LAB*LABa 36.65 23.22 -62.26
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.5 (0.5)
cmyn3* 0.5 0.5 0.5 (0.5)
olvi4* 0.25 0.25 0.5 (0.5)
cmyn4* 0.5 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.22 -62.26
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.5)
cmyn3* 0.5 0.5 0.5 (0.5)
olvi4* 0.5 0.5 0.5 (0.5)
cmyn4* 0.5 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.22 -62.26
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.5 (0.5)
cmyn3* 0.75 0.75 0.5 (0.5)
olvi4* 0.75 0.75 0.5 (0.5)
cmyn4* 0.75 0.75 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.22 -62.26
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (0.5)
cmyn3* 1.0 1.0 0.5 (0.5)
olvi4* 1.0 1.0 0.5 (0.5)
cmyn4* 1.0 1.0 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.22 -62.26
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.5 (0.5)
cmyn3* 0.0 0.0 0.5 (0.5)
olvi4* 0.0 0.0 0.5 (0.5)
cmyn4* 0.0 0.0 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.22 -62.26
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
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 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (1.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 0.75 0.75 0.75 (1.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 1.0 1.0 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
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 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (1.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 0.75 0.75 0.75 (1.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 1.0 1.0 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.26 11.71 31.11
LAB*LABa 37.26 11.63 31.13
LAB*TCHa 50.0 66.47 290.48

TE560-7, 5 step scales for constant CIELAB hue 290/360 = 0.807 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

BAM-test chart TE56; Colorimetric systems MRS18a & ORS18

D65: 2 coordinate data of 5 step colour scales for 10 hues

input: `olv* setrgbcolor`

output: `no change compared to input`

chromaticness c^*

chromaticness c^*

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 25/360 = 0.071$

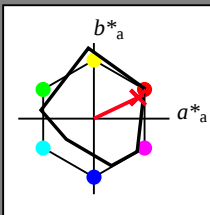
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness t^*



relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	0.0	0.0	0.0	(0.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	0.0	0.0	0.0	(0.0)
olvi10*	0.0	0.0	0.0	(0.0)
olvi11*	0.0	0.0	0.0	(0.0)
olvi12*	0.0	0.0	0.0	(0.0)
olvi13*	0.0	0.0	0.0	(0.0)
olvi14*	0.0	0.0	0.0	(0.0)
olvi15*	0.0	0.0	0.0	(0.0)
olvi16*	0.0	0.0	0.0	(0.0)
olvi17*	0.0	0.0	0.0	(0.0)
olvi18*	0.0	0.0	0.0	(0.0)
olvi19*	0.0	0.0	0.0	(0.0)
olvi20*	0.0	0.0	0.0	(0.0)
olvi21*	0.0	0.0	0.0	(0.0)
olvi22*	0.0	0.0	0.0	(0.0)
olvi23*	0.0	0.0	0.0	(0.0)
olvi24*	0.0	0.0	0.0	(0.0)
olvi25*	0.0	0.0	0.0	(0.0)
olvi26*	0.0	0.0	0.0	(0.0)
olvi27*	0.0	0.0	0.0	(0.0)
olvi28*	0.0	0.0	0.0	(0.0)
olvi29*	0.0	0.0	0.0	(0.0)
olvi30*	0.0	0.0	0.0	(0.0)
olvi31*	0.0	0.0	0.0	(0.0)
olvi32*	0.0	0.0	0.0	(0.0)
olvi33*	0.0	0.0	0.0	(0.0)
olvi34*	0.0	0.0	0.0	(0.0)
olvi35*	0.0	0.0	0.0	(0.0)
olvi36*	0.0	0.0	0.0	(0.0)
olvi37*	0.0	0.0	0.0	(0.0)
olvi38*	0.0	0.0	0.0	(0.0)
olvi39*	0.0	0.0	0.0	(0.0)
olvi40*	0.0	0.0	0.0	(0.0)
olvi41*	0.0	0.0	0.0	(0.0)
olvi42*	0.0	0.0	0.0	(0.0)
olvi43*	0.0	0.0	0.0	(0.0)
olvi44*	0.0	0.0	0.0	(0.0)
olvi45*	0.0	0.0	0.0	(0.0)
olvi46*	0.0	0.0	0.0	(0.0)
olvi47*	0.0	0.0	0.0	(0.0)
olvi48*	0.0	0.0	0.0	(0.0)
olvi49*	0.0	0.0	0.0	(0.0)
olvi50*	0.0	0.0	0.0	(0.0)
olvi51*	0.0	0.0	0.0	(0.0)
olvi52*	0.0	0.0	0.0	(0.0)
olvi53*	0.0	0.0	0.0	(0.0)
olvi54*	0.0	0.0	0.0	(0.0)
olvi55*	0.0	0.0	0.0	(0.0)
olvi56*	0.0	0.0	0.0	(0.0)
olvi57*	0.0	0.0	0.0	(0.0)
olvi58*	0.0	0.0	0.0	(0.0)
olvi59*	0.0	0.0	0.0	(0.0)
olvi60*	0.0	0.0	0.0	(0.0)
olvi61*	0.0	0.0	0.0	(0.0)
olvi62*	0.0	0.0	0.0	(0.0)
olvi63*	0.0	0.0	0.0	(0.0)
olvi64*	0.0	0.0	0.0	(0.0)
olvi65*	0.0	0.0	0.0	(0.0)
olvi66*	0.0	0.0	0.0	(0.0)
olvi67*	0.0	0.0	0.0	(0.0)
olvi68*	0.0	0.0	0.0	(0.0)
olvi69*	0.0	0.0	0.0	(0.0)
olvi70*	0.0	0.0	0.0	(0.0)
olvi71*	0.0	0.0	0.0	(0.0)
olvi72*	0.0	0.0	0.0	(0.0)
olvi73*	0.0	0.0	0.0	(0.0)
olvi74*	0.0	0.0	0.0	(0.0)
olvi75*	0.0	0.0	0.0	(0.0)
olvi76*	0.0	0.0	0.0	(0.0)
olvi77*	0.0	0.0	0.0	(0.0)
olvi78*	0.0	0.0	0.0	(0.0)
olvi79*	0.0	0.0	0.0	(0.0)
olvi80*	0.0	0.0	0.0	(0.0)
olvi81*	0.0	0.0	0.0	(0.0)
olvi82*	0.0	0.0	0.0	(0.0)
olvi83*	0.0	0.0	0.0	(0.0)
olvi84*	0.0	0.0	0.0	(0.0)
olvi85*	0.0	0.0	0.0	(0.0)
olvi86*	0.0	0.0	0.0	(0.0)
olvi87*	0.0	0.0	0.0	(0.0)
olvi88*	0.0	0.0	0.0	(0.0)
olvi89*	0.0	0.0	0.0	(0.0)
olvi90*	0.0	0.0	0.0	(0.0)
olvi91*	0.0	0.0	0.0	(0.0)
olvi92*	0.0	0.0	0.0	(0.0)
olvi93*	0.0	0.0	0.0	(0.0)
olvi94*	0.0	0.0	0.0	(0.0)
olvi95*	0.0	0.0	0.0	(0.0)
olvi96*	0.0	0.0	0.0	(0.0)
olvi97*	0.0	0.0	0.0	(0.0)
olvi98*	0.0	0.0	0.0	(0.0)
olvi99*	0.0	0.0	0.0	(0.0)
olvi100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	1.0	0.75	0.75	(1.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.25	0.25	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.25	0.25	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.25	0.25	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.25	0.25	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.25	0.25	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.25	0.25	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.25	0.25	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)
olvi21*	0.0	0.25	0.25	(0.0)
olvi22*	0.0	0.25	0.25	(0.0)
olvi23*	0.0	0.25	0.25	(0.0)
olvi24*	0.0	0.25	0.25	(0.0)
olvi25*	0.0	0.25	0.25	(0.0)
olvi26*	0.0	0.25	0.25	(0.0)
olvi27*	0.0	0.25	0.25	(0.0)
olvi28*	0.0	0.25	0.25	(0.0)
olvi29*	0.0	0.25	0.25	(0.0)
olvi30*	0.0	0.25	0.25	(0.0)
olvi31*	0.0	0.25	0.25	(0.0)
olvi32*	0.0	0.25	0.25	(0.0)
olvi33*	0.0	0.25	0.25	(0.0)
olvi34*	0.0	0.25	0.25	(0.0)
olvi35*	0.0	0.25	0.25	(0.0)
olvi36*	0.0	0.25	0.25	(0.0)
olvi37*	0.0	0.25	0.25	(0.0)
olvi38*	0.0	0.25	0.25	(0.0)
olvi39*	0.0	0.25	0.25	(0.0)
olvi40*	0.0	0.25	0.25	(0.0)
olvi41*	0.0	0.25	0.25	(0.0)
olvi42*	0.0	0.25	0.25	(0.0)
olvi43*	0.0	0.25	0.25	(0.0)
olvi44*	0.0	0.25	0.25	(0.0)
olvi45*	0.0	0.25	0.25	(0.0)
olvi46*	0.0	0.25	0.25	(0.0)
olvi47*	0.0	0.25	0.25	(0.0)
olvi48*	0.0	0.25	0.25	(0.0)
olvi49*	0.0	0.25	0.25	(0.0)
olvi50*	0.0	0.25	0.25	(0.0)
olvi51*	0.0	0.25	0.25	(0.0)
olvi52*	0.0	0.25	0.25	(0.0)
olvi53*	0.0	0.25	0.25	(0.0)
olvi54*	0.0	0.25	0.25	(0.0)
olvi55*	0.0	0.25	0.25	(0.0)
olvi56*	0.0	0.25	0.25	(0.0)
olvi57*	0.0	0.25	0.25	(0.0)
olvi58*	0.0	0.25	0.25	(0.0)
olvi59*	0.0	0.25	0.25	(0.0)
olvi60*	0.0	0.25	0.25	(0.0)
olvi61*	0.0	0.25	0.25	(0.0)
olvi62*	0.0	0.25	0.25	(0.0)
olvi63*	0.0	0.25	0.25	(0.0)
olvi64*	0.0	0.25	0.25	(0.0)
olvi65*	0.0	0.25	0.25	(0.0)
olvi66*	0.0	0.25	0.25	(0.0)
olvi67*	0.0	0.25	0.25	(0.0)
olvi68*	0.0	0.25	0.25	(0.0)
olvi69*	0.0	0.25	0.25	(0.0)
olvi70*	0.0	0.25	0.25	(0.0)
olvi71*	0.0	0.25	0.25	(0.0)
olvi72*	0.0	0.25	0.25	(0.0)
olvi73*	0.0	0.25	0.25	(0.0)
olvi74*	0.0	0.25	0.25	(0.0)
olvi75*	0.0	0.25	0.25	(0.0)
olvi76*	0.0	0.25	0.25	(0.0)
olvi77*	0.0	0.25	0.25	(0.0)
olvi78*	0.0	0.25	0.25	(0.0)
olvi79*	0.0	0.25	0.25	(0.0)
olvi80*	0.0	0.25	0.25	(0.0)
olvi81*	0.0	0.25	0.25	(0.0)
olvi82*	0.0	0.25	0.25	(0.0)
olvi83*	0.0	0.25	0.25	(0.0)
olvi84*	0.0	0.25	0.25	(0.0)
olvi85*	0.0	0.25	0.25	(0.0)
olvi86*	0.0	0.25	0.25	(0.0)
olvi87*	0.0	0.25	0.25	(0.0)
olvi88*	0.0	0.25	0.25	(0.0)
olvi89*	0.0	0.25	0.25	(0.0)
olvi90*	0.0	0.25	0.25	(0.0)
olvi91*	0.0	0.25	0.25	(0.0)
olvi92*	0.0	0.25	0.25	(0.0)
olvi93*	0.0	0.25	0.25	(0.0)
olvi94*	0.0	0.25	0.25	(0.0)
olvi95*	0.0	0.25	0.25	(0.0)
olvi96*	0.0	0.25	0.25	(0.0)
olvi97*	0.0	0.25	0.25	(0.0)
olvi98*	0.0	0.25	0.25	(0.0)
olvi99*	0.0	0.25	0.25	(0.0)
olvi100*	0.0	0.25	0.25	(0.0)

LAB*TCHa	87.5	18.22	25.49
relative CIELAB lab*			
lab*lab	0.847	0.226	0.108
lab*tch	0.875	0.25	0.071
lab*nch	0.0	0.25	0.071
relative Natural Colour (NC)			
lab*lrj	0.847	0.25	0.0
lab*tce	0.875	0.25	1.0
lab*nce	0.0	0.25	b99r

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

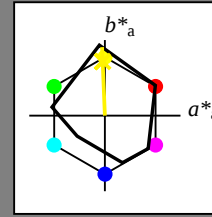
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness t^*



MRS18a; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

chromaticness c^*

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

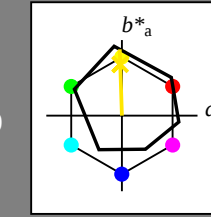
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CLMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
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

%Regularity

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

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

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

chromaticness c^*

$n^* = 1.0$

-See for similar files: <http://www.ps.bam.de/TE56/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

input: 0101 setrgbcolor
output: no change compared to input

