

Input: Colorimetric Reflective System ORS18

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

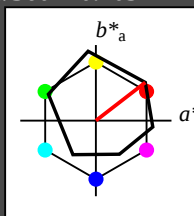
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

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

O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
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

$n^* = 0.25$

$n^* = 0.50$

0.75

1.00

chromaticness c^*

$n^* = 1.0$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

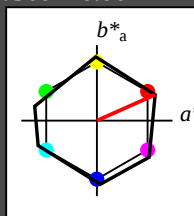
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 119$

NRS11; adapted (a) CIELAB data

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

R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
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

%Regularity

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

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

1.00

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

0.75

1.00

chromaticness c^*

$n^* = 1.0$

TE52-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)
BAM-test chart TE52; Colorimetric systems ORS18 & NRS11
D65: 2 coordinate data of 5 step colour scales for 10 hues

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

input: $olv^* setrgbcolor$

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.419$

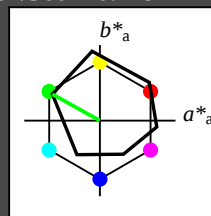
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.59	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

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

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

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*Lab 95.41 0.0 0.0
LAB*TChA 99.99 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 84.28 -16.45 12.74
LAB*Lab 84.28 -15.68 8.73
LAB*TChA 97.5 17.96 150.91

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 73.15 -31.94 20.73
LAB*Lab 73.15 -31.36 17.47
LAB*TChA 75.0 35.93 150.91

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 62.02 -47.03 28.71
LAB*Lab 62.02 -47.09 26.21
LAB*TChA 62.5 53.9 150.91

relative Inform. Technology (IT)
olvi3* 0.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.9 -62.78 34.94
LAB*Lab 50.9 -62.78 34.94
LAB*TChA 50.0 71.86 150.91

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 0.75 0.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 42.68 -47.06 27.41
LAB*Lab 42.68 -47.09 26.21
LAB*TChA 37.51 53.9 150.91

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olvi4* 0.0 0.5 0.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TChA 25.0 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 0.25 0.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 21.55 -20.54 4.74
LAB*Lab 21.55 -20.54 4.74
LAB*TChA 12.5 21.1 167.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 1.0 (1.0)
cmyn3* 0.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 (1.0)
cmyn4* 0.0 1.0 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*TChA 0.0 0.01

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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TChA 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -31.94 20.73
LAB*Lab 37.36 -31.36 17.47
LAB*TChA 25.0 0.01

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.5 0.75 (0.0)
olvi4* 1.0 0.5 1.0 (0.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 34.46 -31.2 18.11
LAB*Lab 34.46 -31.2 18.11
LAB*TChA 25.0 0.01

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 1.0 0.25 1.0 (0.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 31.38 -31.57 19.42
LAB*Lab 31.38 -31.57 19.42
LAB*TChA 25.0 0.01

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.0 (1.0)
cmyn3* 0.75 0.25 0.0 (0.0)
olvi4* 1.0 0.25 0.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.0 0.0 0.0
LAB*Lab 25.0 0.0 0.0
LAB*TChA 25.0 0.01

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.0 (1.0)
cmyn3* 0.75 0.5 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (0.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 21.55 -20.54 4.74
LAB*Lab 21.55 -20.54 4.74
LAB*TChA 12.5 21.1 167.01

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.25 0.0 (0.0)
olvi4* 1.0 0.25 0.0 (1.0)
cmyn4* 0.0 0.25 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*TChA 0.0 0.01

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

TE52-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 167/360 = 0.464 (right)

BAM-test chart TE52; Colorimetric systems ORS18 & NRS11

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

input: $olv^* setrgbcolor$

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

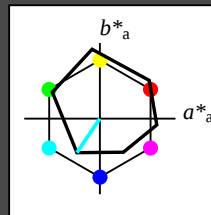
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.59	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

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

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

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*Lab 95.41 0.0 0.0
LAB*TCh 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* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olvi4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.21 -8.38 -7.1
LAB*Lab 86.21 -7.58 -11.24
LAB*TCh 87.5 13.57 236.01

relative CIELAB lab*
lab*lab 0.881 -0.139 -0.206
lab*tch 0.875 0.25 0.564
lab*nch 0.0 0.25 0.564
relative Natural Colour (NC)
lab*trj 0.881 -0.123 -0.216
lab*tce 0.875 0.25 0.564
lab*nce 0.0 0.25 0.564

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*Lab 76.06 0.0 3.44
LAB*TCh 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

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 1.0 1.0 (0.5)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 77.01 -15.16 -19.98
LAB*Lab 77.01 -15.16 -22.5
LAB*TCh 75.0 27.15 236.01

relative CIELAB lab*
lab*lab 0.762 -0.278 -0.413
lab*tch 0.75 0.5 0.564
lab*nch 0.0 0.5 0.564
relative Natural Colour (NC)
lab*trj 0.762 -0.247 -0.433
lab*tce 0.75 0.5 0.564
lab*nce 0.0 0.5 0.564

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olvi4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 2.14
LAB*TCh 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.564
lab*nch 0.0 0.25 0.564
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.564
lab*nce 0.0 0.25 0.564

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (0.5)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.42 -20.29
LAB*Lab 57.66 -15.17 -22.5
LAB*TCh 50.0 27.15 236.01

relative CIELAB lab*
lab*lab 0.642 -0.418 -0.621
lab*tch 0.625 0.75 0.564
lab*nch 0.0 0.75 0.564
relative Natural Colour (NC)
lab*trj 0.642 -0.371 -0.65
lab*tce 0.625 0.75 0.564
lab*nce 0.0 0.75 0.564

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 2.14
LAB*TCh 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.5 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (1.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (1.0)
lab*tce 0.5 0.5 0.5 (1.0)
lab*nce 0.0 0.5 0.5 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 (0.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 67.81 -23.21 -30.86
LAB*Lab 67.81 -23.75 -33.75
LAB*TCh 62.5 40.72 236.01

relative CIELAB lab*
lab*lab 0.642 -0.418 -0.621
lab*tch 0.625 0.75 0.564
lab*nch 0.0 0.75 0.564
relative Natural Colour (NC)
lab*trj 0.642 -0.371 -0.65
lab*tce 0.625 0.75 0.564
lab*nce 0.0 0.75 0.564

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 (0.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 67.81 -23.21 -30.86
LAB*Lab 67.81 -23.75 -33.75
LAB*TCh 62.5 40.72 236.01

relative CIELAB lab*
lab*lab 0.512 -0.247 -0.433
lab*tch 0.5 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (1.0)
relative Natural Colour (NC)
lab*trj 0.512 -0.247 -0.433
lab*tce 0.5 0.5 0.5 (1.0)
lab*nce 0.0 0.5 0.5 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 1.0 1.0 (0.5)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.47 -22.83 -33.16
LAB*Lab 48.47 -22.75 -33.75
LAB*TCh 37.51 40.72 236.01

relative CIELAB lab*
lab*lab 0.394 -0.418 -0.621
lab*tch 0.375 0.75 0.564
lab*nch 0.0 0.75 0.564
relative Natural Colour (NC)
lab*trj 0.394 -0.371 -0.65
lab*tce 0.375 0.75 0.564
lab*nce 0.0 0.75 0.564

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*Lab 37.36 0.0 0.63
LAB*TCh 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.381 -0.139 -0.206
lab*tch 0.375 0.25 0.564
lab*nch 0.0 0.25 0.564
relative Natural Colour (NC)
lab*trj 0.381 -0.123 -0.216
lab*tce 0.375 0.25 0.564
lab*nce 0.0 0.25 0.564

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 (0.0)
standard and adapted CIELAB
LAB*LAB 38.32 -15.16 -22.5
LAB*Lab 38.32 -15.16 -22.5
LAB*TCh 25.01 27.15 236.01

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.413
lab*tch 0.25 0.5 0.564
lab*nch 0.0 0.5 0.564
relative Natural Colour (NC)
lab*trj 0.262 -0.247 -0.433
lab*tce 0.25 0.5 0.564
lab*nce 0.0 0.5 0.564

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 1.0 1.0 (0.0)
cmyn4* 1.0 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*TCh 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.564
lab*nch 0.0 0.25 0.564
relative Natural Colour (NC)
lab*trj 0.131 -0.123 -0.216
lab*tce 0.125 0.25 0.564
lab*nce 0.0 0.25 0.564

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 0.75 1.0 1.0 (0.5)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 28.17 -7.58 -11.24
LAB*Lab 28.17 -7.58 -11.24
LAB*TCh 12.5 13.57 236.01

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.564
lab*nch 0.0 0.25 0.564
relative Natural Colour (NC)
lab*trj 0.131 -0.123 -0.216
lab*tce 0.125 0.25 0.564
lab*nce 0.0 0.25 0.564

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

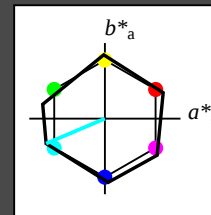
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



NRS11; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCh 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* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olvi4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 84.85 -19.4 -8.23
LAB*Lab 84.85 -19.42 -8.23
LAB*TCh 87.5 21.1 203.0

relative CIELAB lab*
lab*lab 0.875 -0.207 -0.137
lab*tch 0.875 0.25 0.564
lab*nch 0.0 0.25 0.564
relative Natural Colour (NC)
lab*trj 0.875 -0.207 -0.137
lab*tce 0.875 0.25 0.564
lab*nce 0.0 0.25 0.564

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olvi4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCh 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.5 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (1.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (1.0)
lab*tce 0.5 0.5 0.5 (1.0)
lab*nce 0.0 0.5 0.5 (1.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (0.5)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 63.75 -19.39 -8.23
LAB*Lab 63.75 -19.42 -8.24
LAB*TCh 62.5 21.1 203.0

relative CIELAB lab*
lab*lab 0.25 -0.459 -0.194
lab*tch 0.25 0.5 0.564
lab*nch 0.0 0.5 0.564
relative Natural Colour (NC)
lab*trj 0.25 -0.416 -0.275
lab*tce 0.25 0.5 0.564
lab*nce 0.0 0.5 0.564

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 (0.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*Lab 53.21 0.0 0.0
LAB*TCh 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

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

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

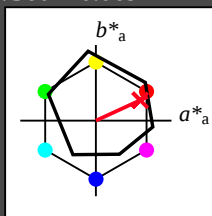
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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	50.59	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

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

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

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

relative Inform. Technology (IT)	
olvi3*	1.0 0.75 0.831 (1.0)
olvi4*	0.0 0.25 0.169 (0.0)
olvi5*	1.0 0.75 0.831 (1.0)
olvi6*	0.0 0.25 0.169 (0.0)
olvi7*	1.0 0.75 0.831 (1.0)
olvi8*	0.0 0.25 0.169 (0.0)
olvi9*	1.0 0.75 0.831 (1.0)
olvi10*	0.0 0.25 0.169 (0.0)
olvi11*	1.0 0.75 0.831 (1.0)
olvi12*	0.0 0.25 0.169 (0.0)
olvi13*	1.0 0.75 0.831 (1.0)
olvi14*	0.0 0.25 0.169 (0.0)
olvi15*	1.0 0.75 0.831 (1.0)
olvi16*	0.0 0.25 0.169 (0.0)
olvi17*	1.0 0.75 0.831 (1.0)
olvi18*	0.0 0.25 0.169 (0.0)
olvi19*	1.0 0.75 0.831 (1.0)
olvi20*	0.0 0.25 0.169 (0.0)
olvi21*	1.0 0.75 0.831 (1.0)
olvi22*	0.0 0.25 0.169 (0.0)
olvi23*	1.0 0.75 0.831 (1.0)
olvi24*	0.0 0.25 0.169 (0.0)
olvi25*	1.0 0.75 0.831 (1.0)
olvi26*	0.0 0.25 0.169 (0.0)
olvi27*	1.0 0.75 0.831 (1.0)
olvi28*	0.0 0.25 0.169 (0.0)
olvi29*	1.0 0.75 0.831 (1.0)
olvi30*	0.0 0.25 0.169 (0.0)
olvi31*	1.0 0.75 0.831 (1.0)
olvi32*	0.0 0.25 0.169 (0.0)
olvi33*	1.0 0.75 0.831 (1.0)
olvi34*	0.0 0.25 0.169 (0.0)
olvi35*	1.0 0.75 0.831 (1.0)
olvi36*	0.0 0.25 0.169 (0.0)
olvi37*	1.0 0.75 0.831 (1.0)
olvi38*	0.0 0.25 0.169 (0.0)
olvi39*	1.0 0.75 0.831 (1.0)
olvi40*	0.0 0.25 0.169 (0.0)
olvi41*	1.0 0.75 0.831 (1.0)
olvi42*	0.0 0.25 0.169 (0.0)
olvi43*	1.0 0.75 0.831 (1.0)
olvi44*	0.0 0.25 0.169 (0.0)
olvi45*	1.0 0.75 0.831 (1.0)
olvi46*	0.0 0.25 0.169 (0.0)
olvi47*	1.0 0.75 0.831 (1.0)
olvi48*	0.0 0.25 0.169 (0.0)
olvi49*	1.0 0.75 0.831 (1.0)
olvi50*	0.0 0.25 0.169 (0.0)
olvi51*	1.0 0.75 0.831 (1.0)
olvi52*	0.0 0.25 0.169 (0.0)
olvi53*	1.0 0.75 0.831 (1.0)
olvi54*	0.0 0.25 0.169 (0.0)
olvi55*	1.0 0.75 0.831 (1.0)
olvi56*	0.0 0.25 0.169 (0.0)
olvi57*	1.0 0.75 0.831 (1.0)
olvi58*	0.0 0.25 0.169 (0.0)
olvi59*	1.0 0.75 0.831 (1.0)
olvi60*	0.0 0.25 0.169 (0.0)
olvi61*	1.0 0.75 0.831 (1.0)
olvi62*	0.0 0.25 0.169 (0.0)
olvi63*	1.0 0.75 0.831 (1.0)
olvi64*	0.0 0.25 0.169 (0.0)
olvi65*	1.0 0.75 0.831 (1.0)
olvi66*	0.0 0.25 0.169 (0.0)
olvi67*	1.0 0.75 0.831 (1.0)
olvi68*	0.0 0.25 0.169 (0.0)
olvi69*	1.0 0.75 0.831 (1.0)
olvi70*	0.0 0.25 0.169 (0.0)
olvi71*	1.0 0.75 0.831 (1.0)
olvi72*	0.0 0.25 0.169 (0.0)
olvi73*	1.0 0.75 0.831 (1.0)
olvi74*	0.0 0.25 0.169 (0.0)
olvi75*	1.0 0.75 0.831 (1.0)
olvi76*	0.0 0.25 0.169 (0.0)
olvi77*	1.0 0.75 0.831 (1.0)
olvi78*	0.0 0.25 0.169 (0.0)
olvi79*	1.0 0.75 0.831 (1.0)
olvi80*	0.0 0.25 0.169 (0.0)
olvi81*	1.0 0.75 0.831 (1.0)
olvi82*	0.0 0.25 0.169 (0.0)
olvi83*	1.0 0.75 0.831 (1.0)
olvi84*	0.0 0.25 0.169 (0.0)
olvi85*	1.0 0.75 0.831 (1.0)
olvi86*	0.0 0.25 0.169 (0.0)
olvi87*	1.0 0.75 0.831 (1.0)
olvi88*	0.0 0.25 0.169 (0.0)
olvi89*	1.0 0.75 0.831 (1.0)
olvi90*	0.0 0.25 0.169 (0.0)
olvi91*	1.0 0.75 0.831 (1.0)
olvi92*	0.0 0.25 0.169 (0.0)
olvi93*	1.0 0.75 0.831 (1.0)
olvi94*	0.0 0.25 0.169 (0.0)
olvi95*	1.0 0.75 0.831 (1.0)
olvi96*	0.0 0.25 0.169 (0.0)
olvi97*	1.0 0.75 0.831 (1.0)
olvi98*	0.0 0.25 0.169 (0.0)
olvi99*	1.0 0.75 0.831 (1.0)
olvi100*	0.0 0.25 0.169 (0.0)

relative Inform. Technology (IT)	
olvi3*	1.0 0.75 0.831 (1.0)
olvi4*	0.0 0.25 0.169 (0.0)
olvi5*	1.0 0.75 0.831 (1.0)
olvi6*	0.0 0.25 0.169 (0.0)
olvi7*	1.0 0.75 0.831 (1.0)
olvi8*	0.0 0.25 0.169 (0.0)
olvi9*	1.0 0.75 0.831 (1.0)
olvi10*	0.0 0.25 0.169 (0.0)
olvi11*	1.0 0.75 0.831 (1.0)
olvi12*	0.0 0.25 0.169 (0.0)
olvi13*	1.0 0.75 0.831 (1.0)
olvi14*	0.0 0.25 0.169 (0.0)
olvi15*	1.0 0.75 0.831 (1.0)
olvi16*	0.0 0.25 0.169 (0.0)
olvi17*	1.0 0.75 0.831 (1.0)
olvi18*	0.0 0.25 0.169 (0.0)
olvi19*	1.0 0.75 0.831 (1.0)
olvi20*	0.0 0.25 0.169 (0.0)
olvi21*	1.0 0.75 0.831 (1.0)
olvi22*	0.0 0.25 0.169 (0.0)
olvi23*	1.0 0.75 0.831 (1.0)
olvi24*	0.0 0.25 0.169 (0.0)
olvi25*	1.0 0.75 0.831 (1.0)
olvi26*	0.0 0.25 0.169 (0.0)
olvi27*	1.0 0.75 0.831 (1.0)
olvi28*	0.0 0.25 0.169 (0.0)
olvi29*	1.0 0.75 0.831 (1.0)
olvi30*	0.0 0.25 0.169 (0.0)
olvi31*	1.0 0.75 0.831 (1.0)
olvi32*	0.0 0.25 0.169 (0.0)
olvi33*	1.0 0.75 0.831 (1.0)
olvi34*	0.0 0.25 0.169 (0.0)
olvi35*	1.0 0.75 0.831 (1.0)
olvi36*	0.0 0.25 0.169 (0.0)
olvi37*	1.0 0.75 0.831 (1.0)
olvi38*	0.0 0.25 0.169 (0.0)
olvi39*	1.0 0.75 0.831 (1.0)
olvi40*	0.0 0.25 0.169 (0.0)
olvi41*	1.0 0.75 0.831 (1.0)
olvi42*	0.0 0.25 0.169 (0.0)
olvi43*	1.0 0.75 0.831 (1.0)
olvi44*	0.0 0.25 0.169 (0.0)
olvi45*	1.0 0.75 0.831 (1.0)
olvi46*	0.0 0.25 0.169 (0.0)
olvi47*	1.0 0.75 0.831 (1.0)
olvi48*	0.0 0.25 0.169 (0.0)
olvi49*	1.0 0.75 0.831 (1.0)
olvi50*	0.0 0.25 0.169 (0.0)
olvi51*	1.0 0.75 0.831 (1.0)
olvi52*	0.0 0.25 0.169 (0.0)
olvi53*	1.0 0.75 0.831 (1.0)
olvi54*	0.0 0.25 0.169 (0.0)
olvi55*	1.0 0.75 0.831 (1.0)
olvi56*	0.0 0.25 0.169 (0.0)
olvi57*	1.0 0.75 0.831 (1.0)
olvi58*	0.0 0.25 0.169 (0.0)
olvi59*	1.0 0.75 0.831 (1.0)
olvi60*	0.0 0.25 0.169 (0.0)
olvi61*	1.0 0.75 0.831 (1.0)
olvi62*	0.0 0.25 0.169 (0.0)
olvi63*	1.0 0.75 0.831 (1.0)
olvi64*	0.0 0.25 0.169 (0.0)
olvi65*	1.0 0.75 0.831 (1.0)
olvi66*	0.0 0.25 0.169 (0.0)
olvi67*	1.0 0.75 0.831 (1.0)
olvi68*	0.0 0.25 0.169 (0.0)
olvi69*	1.0 0.75 0.831 (1.0)
olvi70*	0.0 0.25 0.169 (0.0)
olvi71*	1.0 0.75 0.831 (1.0)
olvi72*	0.0 0.25 0.169 (0.0)
olvi73*	1.0 0.75 0.831 (1.0)
olvi74*	0.0 0.25 0.169 (0.0)
olvi75*	1.0 0.75 0.831 (1.0)
olvi76*	0.0 0.25 0.169 (0.0)
olvi77*	1.0 0.75 0.831 (1.0)
olvi78*	0.0 0.25 0.169 (0.0)
olvi79*	1.0 0.75 0.831 (1.0)
olvi80*	0.0 0.25 0.169 (0.0)
olvi81*	1.0 0.75 0.831 (1.0)
olvi82*	0.0 0.25 0.169 (0.0)
olvi83*	1.0 0.75 0.831 (1.0)
olvi84*	0.0 0.25 0.169 (0.0)
olvi85*	1.0 0.75 0.831 (1.0)
olvi86*	0.0 0.25 0.169 (0.0)
olvi87*	1.0 0.75 0.831 (1.0)
olvi88*	0.0 0.25 0.169 (0.0)
olvi89*	1.0 0.75 0.831 (1.0)
olvi90*	0.0 0.25 0.169 (0.0)
olvi91*	1.0 0.75 0.831 (1.0)
olvi92*	0.0 0.25 0.169 (0.0)
olvi93*	1.0 0.75 0.831 (1.0)
olvi94*	0.0 0.25 0.169 (0.0)
olvi95*	1.0 0.75 0.831 (1.0)
olvi96*	0.0 0.25 0.169 (0.0)
olvi97*	1.0 0.75 0.831 (1.0)
olvi98*	0.0 0.25 0.169 (0.0)
olvi99*	1.0 0.75 0.831 (1.0)
olvi100*	0.0 0.25 0.169 (0.0)

||
||
||

Input: Colorimetric Reflective System ORS18

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

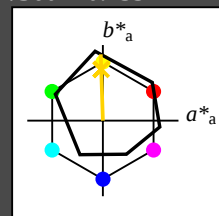
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness t^*



% 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 47.5
LAB*Lab 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 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* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*Lab 76.06 0.0 0.0
LAB*TCa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.97 -0.007 0.25
lab*tch 0.875 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.97 0.0 0.25
lab*tce 0.875 0.25 0.255
lab*nce 0.0 0.25 0.255

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.94 -0.015 0.5
lab*tch 0.75 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.94 0.0 0.5
lab*tce 0.75 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.94 -0.015 0.5
lab*tch 0.75 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.94 0.0 0.5
lab*tce 0.75 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.68 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.47 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.68 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.47 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.68 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.47 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.68 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.47 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.68 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.47 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.68 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.47 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

ORS18; adapted (a) CIELAB data

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

QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.99	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

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

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

blackness n^*

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

chromaticness c^*

$c^* = 0.00$

$c^* = 0.25$

$c^* = 0.50$

$c^* = 0.75$

$c^* = 1.0$

Output: Colorimetric Reflective System NRS11

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

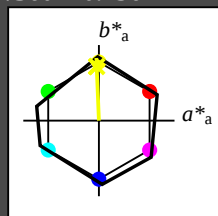
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01 -

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* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.975 -0.009 0.25
lab*tch 0.875 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.875 0.0 0.25
lab*tce 0.875 0.25 0.256
lab*nce 0.0 0.25 0.256

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.24 0.04 0.0
LAB*Lab 53.24 0.0 0.0
LAB*TCa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.981 -0.031 0.999
lab*tch 0.5 0.0 1.0
lab*nch 0.0 1.0 0.5
relative Natural Colour (NC)
lab*trj 0.981 0.0 1.0
lab*tce 0.5 0.0 1.0
lab*nce 0.0 1.0 0.5

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 53.24 0.04 0.0
LAB*Lab 53.24 0.0 0.0
LAB*TCa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.981 -0.031 0.999
lab*tch 0.5 0.0 1.0
lab*nch 0.0 1.0 0.5
relative Natural Colour (NC)
lab*trj 0.981 0.0 1.0
lab*tce 0.5 0.0 1.0
lab*nce 0.0 1.0 0.5

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.375 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.44 0.0 0.5
lab*tce 0.375 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.375 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.44 0.0 0.5
lab*tce 0.375 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.375 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.44 0.0 0.5
lab*tce 0.375 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.375 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.44 0.0 0.5
lab*tce 0.375 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.375 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.44 0.0 0.5
lab*tce 0.375 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.375 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.44 0.0 0.5
lab*tce 0.375 0.5 0.255
lab*nce 0.0 0.5 0.255

NRS11; adapted (a) CIELAB data

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

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

% Regularity

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

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

blackness n^*

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

chromaticness c^*

$c^* = 0.00$

$c^* = 0.25$

$c^* = 0.50$

$c^* = 0.75$

$c^* = 1.0$

TE52-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

BAM-test chart TE52; Colorimetric systems ORS18 & NRS11

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

input: $olv^* setrgbcolor$

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

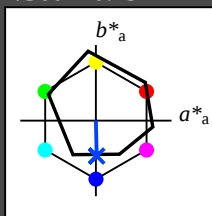
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)		
olvi3*	1.0	1.0
olvi4*	1.0	1.0
olvi5*	1.0	1.0
olvi6*	1.0	1.0
olvi7*	1.0	1.0
olvi8*	1.0	1.0
olvi9*	1.0	1.0
olvi10*	1.0	1.0
olvi11*	1.0	1.0
olvi12*	1.0	1.0
olvi13*	1.0	1.0
olvi14*	1.0	1.0
olvi15*	1.0	1.0
olvi16*	1.0	1.0
olvi17*	1.0	1.0
olvi18*	1.0	1.0
olvi19*	1.0	1.0
olvi20*	1.0	1.0

relative Inform. Technology (IT)		
olvi3*	0.75	0.75
olvi4*	0.75	0.75
olvi5*	0.75	0.75
olvi6*	0.75	0.75
olvi7*	0.75	0.75
olvi8*	0.75	0.75
olvi9*	0.75	0.75
olvi10*	0.75	0.75
olvi11*	0.75	0.75
olvi12*	0.75	0.75
olvi13*	0.75	0.75
olvi14*	0.75	0.75
olvi15*	0.75	0.75
olvi16*	0.75	0.75
olvi17*	0.75	0.75
olvi18*	0.75	0.75
olvi19*	0.75	0.75
olvi20*	0.75	0.75

relative Inform. Technology (IT)		
olvi3*	0.5	0.5
olvi4*	0.5	0.5
olvi5*	0.5	0.5
olvi6*	0.5	0.5
olvi7*	0.5	0.5
olvi8*	0.5	0.5
olvi9*	0.5	0.5
olvi10*	0.5	0.5
olvi11*	0.5	0.5
olvi12*	0.5	0.5
olvi13*	0.5	0.5
olvi14*	0.5	0.5
olvi15*	0.5	0.5
olvi16*	0.5	0.5
olvi17*	0.5	0.5
olvi18*	0.5	0.5
olvi19*	0.5	0.5
olvi20*	0.5	0.5

relative Inform. Technology (IT)		
olvi3*	0.25	0.25
olvi4*	0.25	0.25
olvi5*	0.25	0.25
olvi6*	0.25	0.25
olvi7*	0.25	0.25
olvi8*	0.25	0.25
olvi9*	0.25	0.25
olvi10*	0.25	0.25
olvi11*	0.25	0.25
olvi12*	0.25	0.25
olvi13*	0.25	0.25
olvi14*	0.25	0.25
olvi15*	0.25	0.25
olvi16*	0.25	0.25
olvi17*	0.25	0.25
olvi18*	0.25	0.25
olvi19*	0.25	0.25
olvi20*	0.25	0.25

relative Inform. Technology (IT)		
olvi3*	0.0	0.0
olvi4*	0.0	0.0
olvi5*	0.0	0.0
olvi6*	0.0	0.0
olvi7*	0.0	0.0
olvi8*	0.0	0.0
olvi9*	0.0	0.0
olvi10*	0.0	0.0
olvi11*	0.0	0.0
olvi12*	0.0	0.0
olvi13*	0.0	0.0
olvi14*	0.0	0.0
olvi15*	0.0	0.0
olvi16*	0.0	0.0
olvi17*	0.0	0.0
olvi18*	0.0	0.0
olvi19*	0.0	0.0
olvi20*	0.0	0.0

relative Inform. Technology (IT)		
olvi3*	0.75	0.75
olvi4*	0.75	0.75
olvi5*	0.75	0.75
olvi6*	0.75	0.75
olvi7*	0.75	0.75
olvi8*	0.75	0.75
olvi9*	0.75	0.75
olvi10*	0.75	0.75
olvi11*	0.75	0.75
olvi12*	0.75	0.75
olvi13*	0.75	0.75
olvi14*	0.75	0.75
olvi15*	0.75	0.75
olvi16*	0.75	0.75
olvi17*	0.75	0.75
olvi18*	0.75	0.75
olvi19*	0.75	0.75
olvi20*	0.75	0.75

relative Inform. Technology (IT)		
olvi3*	0.5	0.5
olvi4*	0.5	0.5
olvi5*	0.5	0.5
olvi6*	0.5	0.5
olvi7*	0.5	0.5
olvi8*	0.5	0.5
olvi9*	0.5	0.5
olvi10*	0.5	0.5
olvi11*	0.5	0.5
olvi12*	0.5	0.5
olvi13*	0.5	0.5
olvi14*	0.5	0.5
olvi15*	0.5	0.5
olvi16*	0.5	0.5
olvi17*	0.5	0.5
olvi18*	0.5	0.5
olvi19*	0.5	0.5
olvi20*	0.5	0.5

relative Inform. Technology (IT)		
olvi3*	0.25	0.25
olvi4*	0.25	0.25
olvi5*	0.25	0.25
olvi6*	0.25	0.25
olvi7*	0.25	0.25
olvi8*	0.25	0.25
olvi9*	0.25	0.25
olvi10*	0.25	0.25
olvi11*	0.25	0.25
olvi12*	0.25	0.25
olvi13*	0.25	0.25
olvi14*	0.25	0.25
olvi15*	0.25	0.25
olvi16*	0.25	0.25
olvi17*	0.25	0.25
olvi18*	0.25	0.25
olvi19*	0.25	0.25
olvi20*	0.25	0.25

relative Inform. Technology (IT)		
olvi3*	0.0	0.0
olvi4*	0.0	0.0
olvi5*	0.0	0.0
olvi6*	0.0	0.0
olvi7*	0.0	0.0
olvi8*	0.0	0.0
olvi9*	0.0	0.0
olvi10*	0.0	0.0
olvi11*	0.0	0.0
olvi12*	0.0	0.0
olvi13*	0.0	0.0
olvi14*	0.0	0.0
olvi15*	0.0	0.0
olvi16*	0.0	0.0
olvi17*	0.0	0.0
olvi18*	0.0	0.0
olvi19*	0.0	0.0
olvi20*	0.0	0.0

relative Inform. Technology (IT)		
olvi3*	0.75	0.75
olvi4*	0.75	0.75
olvi5*	0.75	0.75
olvi6*	0.75	0.75
olvi7*	0.75	0.75
olvi8*	0.75	0.75
olvi9*	0.75	0.75
olvi10*	0.75	0.75
olvi11*	0.75	0.75
olvi12*	0.75	0.75
olvi13*	0.75	0.75
olvi14*	0.75	0.75
olvi15*	0.75	0.75
olvi16*	0.75	0.75
olvi17*	0.75	0.75
olvi18*	0.75	0.75
olvi19*	0.75	0.75
olvi20*	0.75	0.75

relative Inform. Technology (IT)		
olvi3*	0.5	0.5
olvi4*	0.5	0.5
olvi5*	0.5	0.5
olvi6*	0.5	0.5
olvi7*	0.5	0.5
olvi8*	0.5	0.5
olvi9*	0.5	0.5
olvi10*	0.5	0.5
olvi11*	0.5	0.5
olvi12*	0.5	0.5
olvi13*	0.5	0.5
olvi14*	0.5	0.5
olvi15*	0.5	0.5
olvi16*	0.5	0.5
olvi17*	0.5	0.5
olvi18*	0.5	0.5
olvi19*	0.5	0.5
olvi20*	0.5	0.5

relative Inform. Technology (IT)		
olvi3*	0.25	0.25
olvi4*	0.25	0.25
olvi5*	0.25	0.25
olvi6*	0.25	0.25
olvi7*	0.25	0.25
olvi8*	0.25	0.25
olvi9*	0.25	0.25
olvi10*	0.25	0.25
olvi11*	0.25	0.25
olvi12*	0.25	0.25
olvi13*	0.25	0.25
olvi14*	0.25	0.25
olvi15*	0.25	0.25
olvi16*	0.25	0.25
olvi17*	0.25	0.25
olvi18*	0.25	0.25
olvi19*	0.25	0.25
olvi20*	0.25	0.25

relative Inform. Technology (IT)		
olvi3*	0.0	0.0
olvi4*	0.0	0.0
olvi5*	0.0	0.0
olvi6*	0.0	0.0
olvi7*	0.0	0.0
olvi8*	0.0	0.0
olvi9*	0.0	0.0
olvi10*	0.0	0.0
olvi11*	0.0	0.0
olvi12*	0.0	0.0
olvi13*	0.0	0.0
olvi14*	0.0	0.0
olvi15*	0.0	0.0
olvi16*	0.0	0.0
olvi17*	0.0	0.0
olvi18*	0.0	0.0
olvi19*	0.0	0.0
olvi20*	0.0	0.0

relative Inform. Technology (IT)		
olvi3*	0.75	0.75
olvi4*	0.75	0.75
olvi5*	0.75	0.75
olvi6*	0.75	0.75
olvi7*	0.75	0.75
olvi8*	0.75	0.75
olvi9*	0.75	0.75
olvi10*	0.75	0.75
olvi11*	0.75	0.75
olvi12*	0.75	0.75
olvi13*	0.75	0.75
olvi14*	0.75	0.75
olvi15*	0.75	0.75
olvi16*	0.75	0.75
olvi17*	0.75	0.75
olvi18*	0.75	0.75
olvi19*	0.75	0.75
olvi20*	0.75	0.75

relative Inform. Technology (IT)		
olvi3*	0.5	0.5
olvi4*	0.5	0.5
olvi5*	0.5	0.5
olvi6*	0.5	0.5
olvi7*	0.5	0.5
olvi8*	0.5	0.5
olvi9*	0.5	0.5
olvi10*	0.5	0.5
olvi11*	0.5	0.5
olvi12*	0.5	0.5
olvi13*	0.5	0.5
olvi14*	0.5	0.5
olvi15*	0.5	0.5
olvi16*	0.5	0.5
olvi17*	0.5	0.5
olvi18*	0.5	0.5
olvi19*	0.5	0.5
olvi20*	0.5	0.5

relative Inform. Technology (IT)		
olvi3*	0.25	0.25
olvi4*	0.25	0.25
olvi5*	0.25	0.25
olvi6*	0.25	0.25
olvi7*	0.25	0.25
olvi8*	0.25	0.25
olvi9*	0.25	0.25
olvi10*	0.25	0.25
olvi11*	0.25	0.25
olvi12*	0.25	0.25
olvi13*	0.25	0.25
olvi14*	0.25	0.25
olvi15*	0.25	0.25
olvi16*	0.25	0.25
olvi17*	0.25	0.25
olvi18*	0.25	0.25
olvi19*	0.25	0.25
olvi20*	0.25	0.25

relative Inform. Technology (IT)		
olvi3*	0.0	0.0
olvi4*	0.0	0.0
olvi5*	0.0	0.0
olvi6*	0.0	0.0
olvi7*	0.0	0.0
olvi8*	0.0	0.0
olvi9*	0.0	0.0
olvi10*	0.0	0.0
olvi11*	0.0	0.0
olvi12*	0.0	0.0
olvi13*	0.0	0.0
olvi14*	0.0	0.0
olvi15*	0.0	0.0
olvi16*	0.0	0.0
olvi17*	0.0	0.0
olvi18*	0.0	0.0
olvi19*	0.0	0.0
olvi20*	0.0	0.0

relative Inform. Technology (IT)		
olvi3*	0.75	0.75
olvi4*	0.75	0.75
olvi5*	0.75	0.75
olvi6*	0.75	0.75
olvi7*	0.75	0.75
olvi8*	0.75	0.75
olvi9*	0.75	0.75
olvi10*	0.75	0.75
olvi11*	0.75	0.75
olvi12*	0.75	0.75
olvi13*	0.75	0.75
olvi14*	0.75	0.75
olvi15*	0.75	0.75
olvi16*	0.75	0.75
olvi17*	0.75	0.75
olvi18*	0.75	0.75
olvi19*	0.75	0.75
olvi20*	0.75	0.75

$$n^* = 0,25$$