

Input: Colorimetric Reflective System ORS18

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

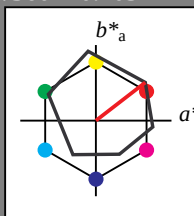
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



$u^*_{rel} = 93$

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*TCHa 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*trc 1.0 0.0 0.0
lab*trc 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

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*trc 0.875 0.25 0.048
lab*trc 0.0 0.25 0.19

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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.597 0.198 0.153
lab*tch 0.625 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.597 0.239 0.075
lab*trc 0.625 0.25 0.048
lab*trc 0.0 0.25 0.19

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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
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LAB*LABa 56.71 0.0 0.0
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relative Natural Colour (NC)
lab*trj 0.597 0.239 0.075
lab*trc 0.625 0.25 0.048
lab*trc 0.0 0.25 0.19

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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.198 0.153
lab*tch 0.375 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.347 0.239 0.075
lab*trc 0.375 0.25 0.048
lab*trc 0.0 0.25 0.19

relative Inform. Technology (IT)
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cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
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lab*tch 0.375 0.25 0.105
lab*nch 0.0 0.25 0.105
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lab*trj 0.347 0.239 0.075
lab*trc 0.375 0.25 0.048
lab*trc 0.0 0.25 0.19

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olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
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standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
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LAB*TCHa 0.01 0.01 -

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lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.097 0.239 0.075
lab*trc 0.125 0.25 0.048
lab*trc 0.0 0.25 0.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
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lab*trc 0.0 0.25 0.19

relative Inform. Technology (IT)
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cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.198 0.153
lab*tch 0.125 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.097 0.239 0.075
lab*trc 0.125 0.25 0.048
lab*trc 0.0 0.25 0.19

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
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 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 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 71.67 32.15 28.41
LAB*LABa 71.67 32.15 28.41
LAB*TCHa 75.0 41.3 37.7

relative CIELAB lab*
lab*lab 0.693 0.396 0.306
lab*tch 0.75 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.693 0.477 0.15
lab*trc 0.75 0.5 0.048
lab*trc 0.0 0.5 0.19

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 52.33 32.53 27.11
LAB*LABa 52.33 32.53 27.11
LAB*TCHa 50.0 41.3 37.7

relative CIELAB lab*
lab*lab 0.443 0.396 0.306
lab*tch 0.5 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.443 0.477 0.15
lab*trc 0.5 0.5 0.048
lab*trc 0.0 0.5 0.19

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 49.38 38.93
LAB*LABa 49.38 38.93
LAB*TCHa 37.5 61.95 37.7

relative CIELAB lab*
lab*lab 0.29 0.593 0.459
lab*tch 0.375 0.75 0.105
lab*nch 0.0 0.75 0.105
relative Natural Colour (NC)
lab*trj 0.29 0.715 0.225
lab*trc 0.375 0.75 0.048
lab*trc 0.0 0.75 0.19

relative Inform. Technology (IT)
olvi3* 0.25 1.0 1.0 (0.0)
cmyn3* 0.75 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 25.71 31.11
LAB*LABa 25.71 31.11
LAB*TCHa 25.0 31.11 37.7

relative CIELAB lab*
lab*lab 0.193 0.477 0.15
lab*tch 0.25 1.0 0.105
lab*nch 0.0 1.0 0.105
relative Natural Colour (NC)
lab*trj 0.193 0.477 0.15
lab*trc 0.25 1.0 0.048
lab*trc 0.0 1.0 0.19

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

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lab*lab 0.097 0.198 0.153
lab*tch 0.125 0.25 0.105
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relative Natural Colour (NC)
lab*trj 0.097 0.239 0.075
lab*trc 0.125 0.25 0.048
lab*trc 0.0 0.25 0.19

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

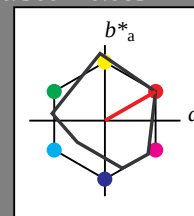
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



$u^*_{rel} = 91$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 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*trc 1.0 0.0 0.0
lab*trc 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
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LAB*TCHa 75.0 0.01 -

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olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
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lab*tch 0.625 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.597 0.239 0.075
lab*trc 0.625 0.25 0.048
lab*trc 0.0 0.25 0.19

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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.198 0.153
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relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
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standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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lab*lab 0.097 0.198 0.153
lab*tch 0.125 0.25 0.105
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relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
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relative CIELAB lab*
lab*lab 0.097 0.198 0.153
lab*tch 0.125 0.25 0.105
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relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
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relative Natural Colour (NC)
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lab*trc 0.125 0.25 0.048
lab*trc 0.0 0.25 0.19

MRS18; adapted (a) CIELAB data

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

R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	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
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

Input: Colorimetric Reflective System ORS18

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

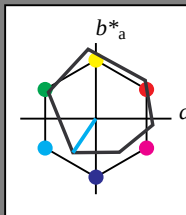
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 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 95.41 0.0 0.0
 LAB*LABc 95.41 0.0 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*trc 1.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.75 1.0 1.0 (1.0)
 cmyn3* 0.25 0.0 0.0 (0.0)
 olv4* 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*LABa 86.21 -7.58 -11.24
 LAB*LABb 86.21 13.57 236.01
 relative CIELAB lab*
 lab*lab 0.881 -0.139 -0.206
 lab*tch 0.875 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.881 -0.123 -0.216
 lab*trc 0.875 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.75
 cmyn4* 0.0 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.6 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*LABb 76.06 0.0 0.0
 LAB*LABc 76.06 0.0 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*trc 0.75 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 66.86 -8.01 -8.41
 LAB*LABa 66.86 -7.58 -11.25
 LAB*LABb 66.86 13.58 236.01
 relative CIELAB lab*
 lab*lab 0.631 -0.139 -0.206
 lab*tch 0.625 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.631 -0.123 -0.216
 lab*trc 0.625 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*LABb 56.71 0.0 0.0
 LAB*LABc 56.71 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.5 0.0 0.0
 lab*trc 0.5 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.5 0.5 (1.0)
 cmyn3* 0.75 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 47.51 -7.64 -9.72
 LAB*LABa 47.51 -7.58 -11.25
 LAB*LABb 47.51 13.58 236.01
 relative CIELAB lab*
 lab*lab 0.512 -0.247 -0.433
 lab*tch 0.512 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.512 -0.247 -0.433
 lab*trc 0.512 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 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 -0.03 0.83
 LAB*LABa 37.36 0.0 0.0
 LAB*LABb 37.36 0.0 0.0
 LAB*LABc 37.36 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*trc 0.25 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.5 0.5 (1.0)
 cmyn3* 1.0 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 28.17 -7.58 -11.24
 LAB*LABa 28.17 -7.58 -11.24
 LAB*LABb 28.17 13.57 236.01
 relative CIELAB lab*
 lab*lab 0.131 -0.139 -0.206
 lab*tch 0.125 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.131 -0.123 -0.216
 lab*trc 0.125 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 18.02 0.0 0.0
 LAB*LABc 18.02 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*trc 0.0 0.0 0.0
 lab*trb 0.0 0.0 0.0

UE500-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

BAM-test chart UE50; Colorimetric systems ORS18 & ORS18

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

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)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.79 -19.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*LABb 77.01 27.15 236.01
 relative CIELAB lab*
 lab*lab 0.762 -0.278 -0.413
 lab*tch 0.762 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.762 -0.247 -0.433
 lab*trc 0.762 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.25 1.0 1.0 (1.0)
 cmyn3* 0.75 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 57.66 -15.42 -20.29
 LAB*LABa 57.66 -15.17 -22.5
 LAB*LABb 57.66 27.15 236.01
 relative CIELAB lab*
 lab*lab 0.642 -0.418 -0.621
 lab*tch 0.642 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.642 -0.371 -0.65
 lab*trc 0.642 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.75 0.75 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.75
 cmyn4* 0.0 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 57.66 -15.42 -20.29
 LAB*LABa 57.66 -15.17 -22.5
 LAB*LABb 57.66 27.15 236.01
 relative CIELAB lab*
 lab*lab 0.642 -0.418 -0.621
 lab*tch 0.642 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.642 -0.371 -0.65
 lab*trc 0.642 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.75 0.75 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.75
 cmyn4* 0.0 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 57.66 -15.42 -20.29
 LAB*LABa 57.66 -15.17 -22.5
 LAB*LABb 57.66 27.15 236.01
 relative CIELAB lab*
 lab*lab 0.642 -0.418 -0.621
 lab*tch 0.642 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.642 -0.371 -0.65
 lab*trc 0.642 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.5 0.5 (1.0)
 cmyn3* 0.75 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 48.41 -22.83 -32.16
 LAB*LABa 48.41 -22.75 -33.78
 LAB*LABb 48.41 27.15 236.01
 relative CIELAB lab*
 lab*lab 0.394 -0.418 -0.621
 lab*tch 0.394 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.394 -0.371 -0.65
 lab*trc 0.394 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.5 0.5 (1.0)
 cmyn3* 0.75 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 48.41 -22.83 -32.16
 LAB*LABa 48.41 -22.75 -33.78
 LAB*LABb 48.41 27.15 236.01
 relative CIELAB lab*
 lab*lab 0.394 -0.418 -0.621
 lab*tch 0.394 0.25 0.656
 lab*nch 0.0 0.25 0.656
 relative Natural Colour (NC)
 lab*trj 0.394 -0.371 -0.65
 lab*trc 0.394 0.25 0.656
 lab*trb 0.0 0.25 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.25 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.03 0.83
 LAB*LABa 37.36 0.0 0.0
 LAB*LABb 37.36 0.0 0.0
 LAB*LABc 37.36 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*trc 0.25 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.25 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.03 0.83
 LAB*LABa 37.36 0.0 0.0
 LAB*LABb 37.36 0.0 0.0
 LAB*LABc 37.36 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*trc 0.25 0.0 0.0
 lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.25 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.03 0.83
 LAB*LABa 37.36 0.0 0.0
 LAB*LABb 37.36 0.0 0.0
 LAB*LABc 37.36 0.0 0.0
 relative CIELAB lab

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

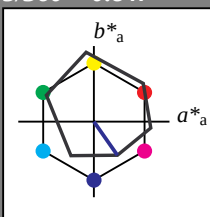
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

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
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 4.75
LAB*LABa 95.41 0.0 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 77.98 7.13 -7.51
LAB*LABa 77.98 7.13 -11.09
LAB*TCHa 87.5 13.55 305.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 1.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 0.5 0.5 1.0 (1.0)
cmyn4* 0.5 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 60.56 15.24 -19.79
LAB*LABa 60.56 15.24 -22.2
LAB*TCHa 75.0 27.11 305.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 0.25 0.25 1.0 (1.0)
cmyn4* 0.25 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 43.14 23.35 -32.08
LAB*LABa 43.14 23.35 -33.31
LAB*TCHa 62.5 40.67 305.0

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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.75 (1.0)
cmyn3* 0.5 0.5 0.25 (0.0)
olvi4* 0.75 0.75 1.0 (0.0)
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 58.63 7.5 -8.82
LAB*LABa 58.63 7.5 -11.1
LAB*TCHa 62.5 13.56 305.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.75
cmyn4* 0.25 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 41.21 15.61 -21.1
LAB*LABa 41.21 15.61 -22.21
LAB*TCHa 50.0 27.12 305.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.75 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.75
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 25.72 31.46 -44.36
LAB*LABa 25.72 31.46 -44.41
LAB*TCHa 50.0 54.23 305.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.5 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 0.75 1.0 0.5
cmyn4* 0.25 0.25 0.0 0.5
standard and adapted CIELAB
LAB*LAB 46.68 11.55 -30.05
LAB*LABa 46.68 11.55 -31.52
LAB*TCHa 50.0 33.59 290.19

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 0.75 0.75 1.0 0.0
cmyn4* 0.5 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 39.28 7.8 -10.13
LAB*LABa 39.28 7.8 -11.1
LAB*TCHa 37.5 13.56 305.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 0.5 0.5 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 21.87 15.96 -22.2
LAB*LABa 21.87 15.96 -22.2
LAB*TCHa 25.0 27.11 305.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.0 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.25
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.0 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.25
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.0 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.25
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.0 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.25
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.0 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.25
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.0 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.25
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 27.34 41.13 15.9
LAB*LABa 27.34 41.13 15.9
LAB*TCHa 37.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.25 0.25 1.0 0.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

UE500-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 290/360 = 0.806 (right)

BAM-test chart UE50; Colorimetric systems ORS18 & ORS18

input: *cmy0** setcmykcolor
output: *Startup (S)* data dependenc

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

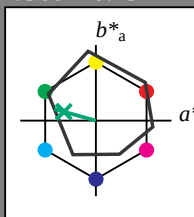
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	49.74	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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

relative Inform. Technology (IT)
olvi3* 0.75 1.0 0.812 (1.0)
cmyn3* 0.25 0.0 0.188 (0.0)
olvi4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 84.75 -14.46 7.85
LAB*LABa 84.75 -13.69 3.81
LAB*TCHa 87.5 14.22 164.46

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.623 (1.0)
cmyn3* 0.5 0.0 0.377 (0.0)
olvi4* 0.5 1.0 0.623 (1.0)
cmyn4* 0.5 0.0 0.377 (0.0)
standard and adapted CIELAB
LAB*LAB 74.1 -27.96 10.94
LAB*LABa 74.1 -27.29 7.62
LAB*TCHa 75.0 28.44 164.46

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.435 (1.0)
cmyn3* 0.25 0.0 0.565 (0.0)
olvi4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.25 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 63.45 -41.46 14.03
LAB*LABa 63.45 -41.09 11.43
LAB*TCHa 62.5 42.66 164.46

relative Inform. Technology (IT)
olvi3* 0.0 1.0 0.246 (1.0)
cmyn3* 0.0 0.0 0.754 (0.0)
olvi4* 0.0 1.0 0.246 (1.0)
cmyn4* 0.0 0.0 0.754 (0.0)
standard and adapted CIELAB
LAB*LAB 52.8 -54.95 17.13
LAB*LABa 52.8 -54.79 15.24
LAB*TCHa 50.0 56.88 164.45

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

relative Inform. Technology (IT)
olvi3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olvi4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.1 6.55
LAB*LABa 65.41 -13.69 3.81
LAB*TCHa 62.5 14.22 164.46

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.5 1.0 0.623 (1.0)
cmyn4* 0.5 0.0 0.377 (0.0)
standard and adapted CIELAB
LAB*LAB 54.75 -27.96 9.64
LAB*LABa 54.75 -27.29 7.62
LAB*TCHa 50.0 28.44 164.46

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.188 (1.0)
cmyn3* 0.0 0.25 0.812 (0.0)
olvi4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.25 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 44.11 -41.09 12.73
LAB*LABa 44.11 -41.09 11.44
LAB*TCHa 37.51 42.66 164.45

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

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 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.5 (1.0)
cmyn3* 0.75 0.5 0.5 (0.0)
olvi4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 46.06 -13.73 5.24
LAB*LABa 46.06 -13.69 3.81
LAB*TCHa 37.5 14.22 164.46

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.125 (1.0)
cmyn3* 0.0 0.25 0.875 (0.0)
olvi4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.25 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -27.29 8.34
LAB*LABa 35.41 -27.29 7.63
LAB*TCHa 25.01 28.44 164.45

relative Inform. Technology (IT)
olvi3* 0.337 -0.721 0.201
lab*lab 0.337 0.75 0.457
lab*tch 0.337 0.25 0.457
lab*nch 0.337 0.0 0.457
relative Natural Colour (NC)
lab*trj 0.337 -0.729 0.0
lab*trc 0.337 0.75 0.998
lab*ncc 0.337 0.25 0.998

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 -0.13 0.68
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.01 0.01 -

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 -0.13 0.68
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.0 0.75 0.938 (0.0)
olvi4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.25 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 26.71 -13.69 3.82
LAB*LABa 26.71 -13.69 3.82
LAB*TCHa 12.5 14.22 164.44

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.75 (0.0)
olvi4* 0.5 1.0 0.623 (1.0)
cmyn4* 0.5 0.0 0.377 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.0 0.75 0.938 (0.0)
olvi4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.25 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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* 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 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

UE500-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart UE50; Colorimetric systems ORS18 & ORS18

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

input: $cmv0^* setcmykcolor$

output: Startup (S) data dependent

Diagram illustrating a linear chromosome with a centromere (C) and two arms (L and V). The L arm is green and the V arm is blue. The centromere is black. The chromosome is shown in two states: a normal state and a rearranged state. In the rearranged state, the L and V arms are swapped.