

Input: Colorimetric Offset Reflective System ORS18

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

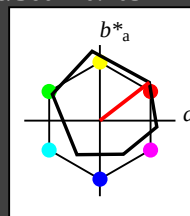
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

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 -0.98 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCRa 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)
olv3* 1.0 0.75 0.75 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 83.54 15.58 16.58
LAB*LABa 83.54 16.34 12.62
LAB*TCRa 97.5 20.65 37.69

relative CIELAB lab*
lab*lab 0.847 0.198 0.153
lab*tch 0.875 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.847 0.238 0.075
lab*tce 0.875 0.25 0.048
lab*nce 0.0 0.25 0.119

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCRa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
lab*nce 0.0 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olv4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 64.19 15.96 15.28
LAB*LABa 64.19 16.35 12.63
LAB*TCRa 62.5 20.66 37.69

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*tce 0.75 0.5 0.048
lab*nce 0.0 0.5 0.119

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCRa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
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*tce 0.625 0.25 0.048
lab*nce 0.0 0.25 0.119

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 52.33 32.53 27.11
LAB*LABa 52.33 32.69 25.26
LAB*TCRa 50.0 41.31 37.69

relative CIELAB lab*
lab*lab 0.593 0.458 0.306
lab*tch 0.625 0.75 0.105
lab*nch 0.0 0.75 0.105
relative Natural Colour (NC)
lab*trj 0.54 0.216 0.224
lab*tce 0.625 0.75 0.048
lab*nce 0.0 0.75 0.119

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCRa 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*tce 0.375 0.25 0.048
lab*nce 0.0 0.25 0.119

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 22.98 32.9 37.69
LAB*LABa 22.98 32.69 25.25
LAB*TCRa 25.01 41.31 37.69

relative CIELAB lab*
lab*lab 0.29 0.593 0.458
lab*tch 0.375 0.75 0.105
lab*nch 0.0 0.75 0.105
relative Natural Colour (NC)
lab*trj 0.29 0.216 0.224
lab*tce 0.375 0.75 0.048
lab*nce 0.0 0.75 0.119

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 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCRa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.125 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (1.0)
lab*tce 0.125 0.25 0.048
lab*nce 0.0 0.25 0.119

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 1.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 25.16 16.7 12.66
LAB*LABa 25.16 16.34 12.62
LAB*TCRa 12.5 20.65 37.69

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*tce 0.125 0.25 0.048
lab*nce 0.0 0.25 0.119

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$

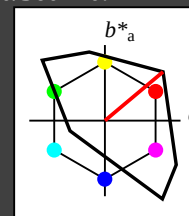
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

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 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCRa 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)
olv3* 1.0 0.75 0.75 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 84.18 19.22 16.13
LAB*LABa 84.18 19.22 16.13
LAB*TCRa 87.5 20.65 37.69

relative CIELAB lab*
lab*lab 0.882 0.191 0.161
lab*tch 0.875 0.25 0.111
lab*nch 0.0 0.25 0.111
relative Natural Colour (NC)
lab*trj 0.882 0.235 0.084
lab*tce 0.875 0.25 0.054
lab*nce 0.0 0.25 0.21

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCRa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
lab*nce 0.0 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olv4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 60.33 19.23 16.14
LAB*LABa 60.33 19.23 16.14
LAB*TCRa 62.5 20.65 37.69

relative CIELAB lab*
lab*lab 0.75 0.5 0.5 (1.0)
lab*tch 0.75 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.75 0.471 0.167
lab*tce 0.75 0.5 0.054
lab*nce 0.0 0.5 0.21

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.94 65.3 52.06
LAB*LABa 47.94 65.37 50.51
LAB*TCRa 50.0 82.61 37.69

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 0.387 0.239 0.299
lab*tce 0.5 0.5 0.119
lab*nce 0.0 0.5 0.119

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 44.91 38.93
LAB*LABa 44.91 38.93 37.68
LAB*TCRa 50.0 41.31 37.69

relative CIELAB lab*
lab*lab 0.387 0.791 0.611
lab*tch 0.5 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.387 0.954 0.299
lab*tce 0.5 0.5 0.119
lab*nce 0.0 0.5 0.119

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCRa 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*tce 0.375 0.25 0.048
lab*nce 0.0 0.25 0.119

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 22.98 32.9 37.69
LAB*LABa 22.98 32.69 25.25
LAB*TCRa 25.01 41.31 37.69

relative CIELAB lab*
lab*lab 0.29 0.593 0.458
lab*tch 0.375 0.75 0.105
lab*nch 0.0 0.75 0.105
relative Natural Colour (NC)
lab*trj 0.29 0.216 0.224
lab*tce 0.375 0.75 0.048
lab*nce 0.0 0.75 0.119

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 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCRa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.125 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (1.0)
lab*tce 0.125 0.25 0.048
lab*nce 0.0 0.25 0.119

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 1.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 25.16 16.7 12.66
LAB*LABa 25.16 16.34 12.62
LAB*TCRa 12.5 20.65 37.69

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*tce 0.125 0.25 0.048
lab*nce 0.0 0.25 0.119

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

BAM-test chart NE50; Colorimetric systems ORS18 & TLS00

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

input: $olv^* setrgbcolor$

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

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

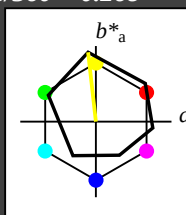
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

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 -0.98 47.5
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 94.14 -3.52 27.6
LAB*LABa 94.14 -2.56 22.93
LAB*LABb 97.5 23.07 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.875 0.25 2.68
lab*nch 0.0 0.25 2.68
relative Natural Colour (NC)
lab*trj 0.984 -0.024 0.249
lab*tce 0.875 0.25 2.66
lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 92.88 -6.06 50.46
LAB*LABa 92.88 -5.12 45.87
LAB*LABb 94.03 10.34 45.37

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.967 -0.055 0.497
lab*nch 0.0 0.5 2.68
relative Natural Colour (NC)
lab*trj 0.967 -0.048 0.497
lab*tce 0.875 0.5 2.66
lab*nce 0.0 0.5 1.06

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.62 -8.61 73.31
LAB*LABa 91.62 69.68 8.8
LAB*LABb 62.5 69.23 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.951 -0.082 0.745
lab*nch 0.0 0.5 2.68
relative Natural Colour (NC)
lab*trj 0.951 -0.073 0.746
lab*tce 0.625 0.5 2.66
lab*nce 0.0 0.5 1.06

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.36 -10.25 91.75
LAB*LABa 90.36 -10.25 91.75
LAB*LABb 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.935 -0.097 0.995
lab*nch 0.0 1.0 2.68
relative Natural Colour (NC)
lab*trj 0.935 -0.097 0.995
lab*tce 0.0 1.0 2.66
lab*nce 0.0 1.0 1.06

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.54 -5.12 45.88
LAB*LABa 73.54 -5.12 45.88
LAB*LABb 50.0 46.16 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.717 -0.055 0.497
lab*nch 0.0 0.5 2.68
relative Natural Colour (NC)
lab*trj 0.717 -0.048 0.498
lab*tce 0.625 0.5 2.66
lab*nce 0.0 0.5 1.06

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 54.19 -5.24 47.64
LAB*LABa 54.19 -5.24 47.64
LAB*LABb 37.5 23.07 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.484 -0.082 0.745
lab*nch 0.0 0.5 2.68
relative Natural Colour (NC)
lab*trj 0.484 -0.073 0.746
lab*tce 0.625 0.5 2.66
lab*nce 0.0 0.5 1.06

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.24 0.68
LAB*LABa 37.36 0.24 0.68
LAB*LABb 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 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 0.484 -0.024 0.249
lab*tce 0.625 0.25 2.66
lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 36.1 0.24 0.68
LAB*LABa 36.1 -2.56 22.93
LAB*LABb 12.5 23.07 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.234 -0.027 0.248
lab*nch 0.125 0.25 2.68
relative Natural Colour (NC)
lab*trj 0.484 -0.024 0.249
lab*tce 0.125 0.25 2.66
lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 103/360 = 0.286$

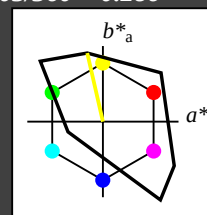
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 94.71 -5.16 22.68
LAB*LABa 94.71 -5.16 22.68
LAB*LABb 97.5 23.26 102.85

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.993 -0.055 0.244
lab*nch 0.0 0.25 2.68
relative Natural Colour (NC)
lab*trj 0.993 -0.058 0.243
lab*tce 0.875 0.25 2.66
lab*nce 0.0 0.25 1.15

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.62 -8.61 73.31
LAB*LABa 91.62 69.68 8.8
LAB*LABb 62.5 69.23 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.967 -0.055 0.497
lab*nch 0.0 0.5 2.68
relative Natural Colour (NC)
lab*trj 0.967 -0.048 0.497
lab*tce 0.875 0.5 2.66
lab*nce 0.0 0.5 1.15

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.36 -10.25 91.75
LAB*LABa 90.36 -10.25 91.75
LAB*LABb 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.935 -0.097 0.995
lab*nch 0.0 1.0 2.68
relative Natural Colour (NC)
lab*trj 0.935 -0.097 0.995
lab*tce 0.0 1.0 2.66
lab*nce 0.0 1.0 1.15

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.54 -5.12 45.88
LAB*LABa 73.54 -5.12 45.88
LAB*LABb 50.0 46.16 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.717 -0.055 0.497
lab*nch 0.0 0.5 2.68
relative Natural Colour (NC)
lab*trj 0.717 -0.048 0.498
lab*tce 0.625 0.5 2.66
lab*nce 0.0 0.5 1.15

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.24 0.68
LAB*LABa 37.36 0.24 0.68
LAB*LABb 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 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 0.484 -0.024 0.249
lab*tce 0.625 0.25 2.66
lab*nce 0.0 0.25 1.15

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 36.1 0.24 0.68
LAB*LABa 36.1 -2.56 22.93
LAB*LABb 12.5 23.07 96.38

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 0.234 -0.027 0.248
lab*nch 0.125 0.25 2.68
relative Natural Colour (NC)
lab*trj 0.484 -0.024 0.249
lab*tce 0.125 0.25 2.66
lab*nce 0.0 0.25 1.15

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

Input: Colorimetric Offset Reflective System ORS18

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

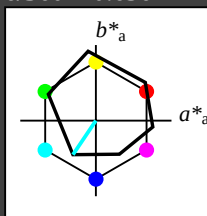
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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

1.00

0.75

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

0.25

0.50

0.75

1.00

chromaticness c^*

$n^* = 1.0$

0.25

0.50

0.75

1.00

chromaticness c^*

0.25

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1.00

Input: Colorimetric Offset Reflective System ORS18

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

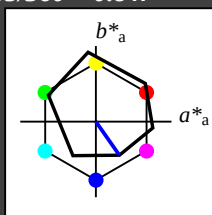
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)	
olv3*	1.0 1.0 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
olv7*	1.0 1.0 1.0 (1.0)
olv8*	0.0 0.0 0.0 (0.0)
olv9*	1.0 1.0 1.0 (1.0)
olv10*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	95.41 -0.98 47.5
LAB*Lab	95.41 0.0 0.0
LAB*Lab	99.99 0.01

relative Inform. Technology (IT)	
olv3*	0.75 0.75 1.0 (1.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.75 0.75 1.0 (1.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.75 0.75 1.0 (1.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.75 0.75 1.0 (1.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	77.99 7.12 -7.51
LAB*Lab	77.99 7.12 -7.51
LAB*Lab	77.99 7.12 -7.51

relative Inform. Technology (IT)	
olv3*	0.75 0.75 1.0 (1.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.75 0.75 1.0 (1.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.75 0.75 1.0 (1.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.75 0.75 1.0 (1.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	60.56 15.23 -19.79
LAB*Lab	60.56 15.23 -19.79
LAB*Lab	60.56 15.23 -19.79

relative Inform. Technology (IT)	
olv3*	0.5 0.5 1.0 (1.0)
olv4*	0.5 0.5 0.0 (0.0)
olv5*	0.5 0.5 1.0 (1.0)
olv6*	0.5 0.5 0.0 (0.0)
olv7*	0.5 0.5 1.0 (1.0)
olv8*	0.5 0.5 0.0 (0.0)
olv9*	0.5 0.5 1.0 (1.0)
olv10*	0.5 0.5 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	55.31 19.01 -25.89
LAB*Lab	55.31 19.01 -25.89
LAB*Lab	55.31 19.01 -25.89

relative Inform. Technology (IT)	
olv3*	0.25 0.25 1.0 (1.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.25 0.25 1.0 (1.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.25 0.25 1.0 (1.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.25 0.25 1.0 (1.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	43.14 23.32 -32.07
LAB*Lab	43.14 23.32 -32.07
LAB*Lab	43.14 23.32 -32.07

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
olv7*	0.75 0.75 0.75 (1.0)
olv8*	0.25 0.25 0.25 (0.0)
olv9*	1.0 1.0 1.0 (1.0)
olv10*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	76.06 -0.61 3.44
LAB*Lab	76.06 -0.61 3.44
LAB*Lab	76.06 -0.61 3.44

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.75 0.75 0.75 (1.0)
olv6*	0.25 0.25 0.25 (0.0)
olv7*	0.75 0.75 0.75 (1.0)
olv8*	0.25 0.25 0.25 (0.0)
olv9*	0.75 0.75 0.75 (1.0)
olv10*	0.25 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*Lab	60.56 15.23 -19.79
LAB*Lab	60.56 15.23 -19.79
LAB*Lab	60.56 15.23 -19.79

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	0.5 0.5 0.0 (0.0)
olv5*	0.5 0.5 0.5 (1.0)
olv6*	0.5 0.5 0.0 (0.0)
olv7*	0.5 0.5 0.5 (1.0)
olv8*	0.5 0.5 0.0 (0.0)
olv9*	0.5 0.5 0.5 (1.0)
olv10*	0.5 0.5 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	55.31 19.01 -25.89
LAB*Lab	55.31 19.01 -25.89
LAB*Lab	55.31 19.01 -25.89

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.25 0.25 0.25 (1.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.25 0.25 0.25 (1.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.25 0.25 0.25 (1.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	43.14 23.32 -32.07
LAB*Lab	43.14 23.32 -32.07
LAB*Lab	43.14 23.32 -32.07

relative Inform. Technology (IT)	
olv3*	0.0 0.0 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	1.0 1.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
olv7*	0.0 0.0 1.0 (1.0)
olv8*	0.0 0.0 0.0 (0.0)
olv9*	1.0 1.0 0.0 (0.0)
olv10*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	55.31 19.01 -25.89
LAB*Lab	55.31 19.01 -25.89
LAB*Lab	55.31 19.01 -25.89

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.0 (0.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.75 0.75 0.0 (0.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.75 0.75 0.0 (0.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.75 0.75 0.0 (0.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.0 (0.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.75 0.75 0.0 (0.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.75 0.75 0.0 (0.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.75 0.75 0.0 (0.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (0.0)
olv4*	0.5 0.5 0.0 (0.0)
olv5*	0.5 0.5 0.0 (0.0)
olv6*	0.5 0.5 0.0 (0.0)
olv7*	0.5 0.5 0.0 (0.0)
olv8*	0.5 0.5 0.0 (0.0)
olv9*	0.5 0.5 0.0 (0.0)
olv10*	0.5 0.5 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (0.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.25 0.25 0.0 (0.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.25 0.25 0.0 (0.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.25 0.25 0.0 (0.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.5 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	1.0 1.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
olv7*	0.0 0.0 0.5 (0.0)
olv8*	0.0 0.0 0.0 (0.0)
olv9*	1.0 1.0 0.0 (0.0)
olv10*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	25.73 31.09 -44.39
LAB*Lab	25.73 31.09 -44.39
LAB*Lab	25.73 31.09 -44.39

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.25 0.25 0.25 (1.0)
olv6*	0.25 0.25 0.25 (0.0)
olv7*	0.25 0.25 0.25 (1.0)
olv8*	0.25 0.25 0.25 (0.0)
olv9*	0.25 0.25 0.25 (1.0)
olv10*	0.25 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.25 0.25 0.25 (1.0)
olv6*	0.25 0.25 0.25 (0.0)
olv7*	0.25 0.25 0.25 (1.0)
olv8*	0.25 0.25 0.25 (0.0)
olv9*	0.25 0.25 0.25 (1.0)
olv10*	0.25 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (0.0)
olv4*	0.5 0.5 0.0 (0.0)
olv5*	0.5 0.5 0.0 (0.0)
olv6*	0.5 0.5 0.0 (0.0)
olv7*	0.5 0.5 0.0 (0.0)
olv8*	0.5 0.5 0.0 (0.0)
olv9*	0.5 0.5 0.0 (0.0)
olv10*	0.5 0.5 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (0.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.25 0.25 0.0 (0.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.25 0.25 0.0 (0.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.25 0.25 0.0 (0.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.5 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	1.0 1.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
olv7*	0.0 0.0 0.5 (0.0)
olv8*	0.0 0.0 0.0 (0.0)
olv9*	1.0 1.0 0.0 (0.0)
olv10*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	25.73 31.09 -44.39
LAB*Lab	25.73 31.09 -44.39
LAB*Lab	25.73 31.09 -44.39

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.0 (0.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.75 0.75 0.0 (0.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.75 0.75 0.0 (0.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.75 0.75 0.0 (0.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.0 (0.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.75 0.75 0.0 (0.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.75 0.75 0.0 (0.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.75 0.75 0.0 (0.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14
LAB*Lab	56.71 -0.24 2.14

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (0.0)
olv4*	0.5 0.5 0.0 (0.0)
olv5*	0.5 0.5 0.0 (0.0)
olv6*	0.5 0.5 0.0 (0.0)
olv7*	0.5 0.5 0.0 (0.0)
olv8*	0.5 0.5 0.0 (0.0)
olv9*	0.5 0.5 0.0 (0.0)
olv10*	0.5 0.5 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (0.0)
olv4*	0.25 0.25 0.0 (0.0)
olv5*	0.25 0.25 0.0 (0.0)
olv6*	0.25 0.25 0.0 (0.0)
olv7*	0.25 0.25 0.0 (0.0)
olv8*	0.25 0.25 0.0 (0.0)
olv9*	0.25 0.25 0.0 (0.0)
olv10*	0.25 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11
LAB*Lab	41.22 15.56 -21.11

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.5 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	1.0 1.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
olv7*	0.0 0.0 0.5 (0.0)
olv8*	0.0 0.0 0.0 (0.0)
olv9*	1.0 1.0 0.0 (0.0)
olv10*	0.0 0.0 0.0 (0.0)</

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

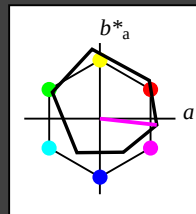
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

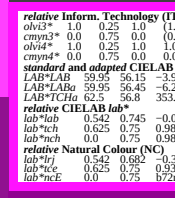
ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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



% Gamut

$u^*_{rel} = 93$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 328/360 = 0.912$

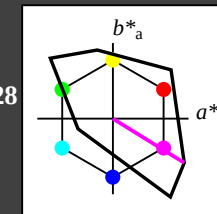
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

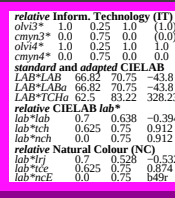
TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

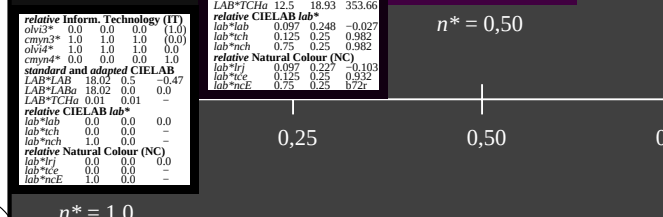
$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

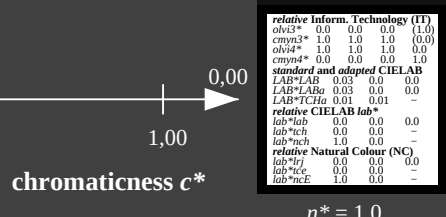


% Gamut

$u^*_{rel} = 158$



NE500-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)



5 step scales for constant CIELAB hue 328/360 = 0.912 (right)

input: $olv^* setrgbcolor$

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

BAM-test chart NE500; Colorimetric systems ORS18 & TLS00

D65: 2 coordinate data of 56 steps colour scales for 10 hues

Input: Colorimetric Offset Reflective System ORS18

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

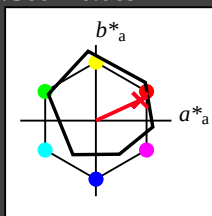
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 48 75 25

olv*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	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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

Output: Colorimetric Television Luminous System TLS00

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

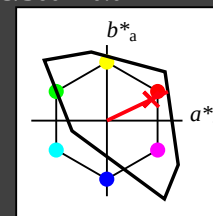
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)	
olv3*	1.0 1.0 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
olv7*	1.0 1.0 1.0 (1.0)
olv8*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -9.98 47.5
LAB*Lab	95.41 0.0 0.0
LAB*Cha	99.99 0.01 -

relative Inform. Technology (IT)	
olv3*	1.0 0.75 0.831 (1.0)
olv4*	0.0 0.25 0.169 (0.0)
olv5*	1.0 0.75 0.831 (1.0)
olv6*	0.0 0.25 0.169 (0.0)
olv7*	1.0 0.75 0.831 (1.0)
olv8*	0.0 0.25 0.169 (0.0)
standard and adapted CIELAB	
LAB*LAB	83.55 16.38 11.84
LAB*Lab	83.55 17.14 7.88
LAB*Cha	87.5 18.86 24.69

relative Inform. Technology (IT)	
olv3*	1.0 0.75 0.831 (1.0)
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standard and adapted CIELAB	
LAB*LAB	83.55 16.38 11.84
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LAB*Cha	87.5 18.86 24.69

relative Inform. Technology (IT)	
olv3*	1.0 0.75 0.831 (1.0)
olv4*	0.0 0.25 0.169 (0.0)
olv5*	1.0 0

	L	V
--	---	---

Input: Colorimetric Offset Reflective System ORS18

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

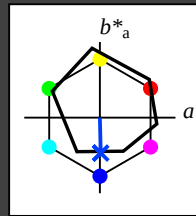
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0

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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 272/360 = 0.755$

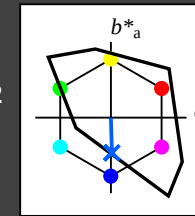
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
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B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

See for similar files: <http://www.ps.bam.de/NE50/>
Technical information: <http://www.ps.bam.de>

Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-NE50/10S/S50E09FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
/NE50/ Form 10/10/Scene: 1/1, Page: 10 Page count: 10

BAM material: code=rh4ta

NE500-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

BAM-test chart NE50; Colorimetric systems ORS18 & TLS00

input: $olv^* setrgbcolor$

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