

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab \cdot h = 35/360 = 0.097$

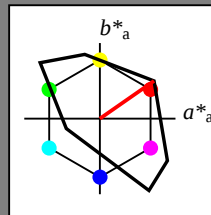
$lab \cdot tch$ and $lab \cdot nch$

D65: hue O

LCH*Ma: 53 87 35

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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	58.74	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	0.0	0.0	0.0	(0.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	0.0	0.0	0.0	(0.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	0.0	0.0	0.0	(0.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	0.0	0.0	0.0	(0.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	0.0	0.0	0.0	(0.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	0.0	0.0	0.0	(0.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	0.0	0.0	0.0	(0.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	0.0	0.0	0.0	(0.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	0.0	0.0	0.0	(0.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	0.0	0.0	0.0	(0.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	0.0	0.0	0.0	(0.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	0.0	0.0	0.0	(0.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	0.0	0.0	0.0	(0.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	0.0	0.0	0.0	(0.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	0.0	0.0	0.0	(0.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	0.0	0.0	0.0	(0.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	0.0	0.0	0.0	(0.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	0.0	0.0	0.0	(0.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	0.0	0.0	0.0	(0.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	0.0	0.0	0.0	(0.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	0.0	0.0	0.0	(0.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	0.0	0.0	0.0	(0.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	0.0	0.0	0.0	(0.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	0.0	0.0	0.0	(0.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	0.0	0.0	0.0	(0.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	0.0	0.0	0.0	(0.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	0.0	0.0	0.0	(0.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	0.0	0.0	0.0	(0.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	0.0	0.0	0.0	(0.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	0.0	0.0	0.0	(0.0)
olv68*	0.0	0.0	0.0	(0.0)
olv69*	0.0	0.0	0.0	(0.0)
olv70*	0.0	0.0	0.0	(0.0)
olv71*	0.0	0.0	0.0	(0.0)
olv72*	0.0	0.0	0.0	(0.0)
olv73*	0.0	0.0	0.0	(0.0)
olv74*	0.0	0.0	0.0	(0.0)
olv75*	0.0	0.0	0.0	(0.0)
olv76*	0.0	0.0	0.0	(0.0)
olv77*	0.0	0.0	0.0	(0.0)
olv78*	0.0	0.0	0.0	(0.0)
olv79*	0.0	0.0	0.0	(0.0)
olv80*	0.0	0.0	0.0	(0.0)
olv81*	0.0	0.0	0.0	(0.0)
olv82*	0.0	0.0	0.0	(0.0)
olv83*	0.0	0.0	0.0	(0.0)
olv84*	0.0	0.0	0.0	(0.0)
olv85*	0.0	0.0	0.0	(0.0)
olv86*	0.0	0.0	0.0	(0.0)
olv87*	0.0	0.0	0.0	(0.0)
olv88*	0.0	0.0	0.0	(0.0)
olv89*	0.0	0.0	0.0	(0.0)
olv90*	0.0	0.0	0.0	(0.0)
olv91*	0.0	0.0	0.0	(0.0)
olv92*	0.0	0.0	0.0	(0.0)
olv93*	0.0	0.0	0.0	(0.0)
olv94*	0.0	0.0	0.0	(0.0)
olv95*	0.0	0.0	0.0	(0.0)
olv96*	0.0	0.0	0.0	(0.0)
olv97*	0.0	0.0	0.0	(0.0)
olv98*	0.0	0.0	0.0	(0.0)
olv99*	0.0	0.0	0.0	(0.0)
olv100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.75	(1.0)
olv4*	0.0	0.75	0.75	(1.0)
olv5*	0.0	0.75	0.75	(1.0)
olv6*	0.0	0.75	0.75	(1.0)
olv7*	0.0	0.75	0.75	(1.0)
olv8*	0.0	0.75	0.75	(1.0)
olv9*	0.0	0.75	0.75	(1.0)
olv10*	0.0	0.75	0.75	(1.0)
olv11*	0.0	0.75	0.75	(1.0)
olv12*	0.0	0.75	0.75	(1.0)
olv13*	0.0	0.75	0.75	(1.0)
olv14*	0.0	0.75	0.75	(1.0)
olv15*	0.0	0.75	0.75	(1.0)
olv16*	0.0	0.75	0.75	(1.0)
olv17*	0.0	0.75	0.75	(1.0)
olv18*	0.0	0.75	0.75	(1.0)
olv19*	0.0	0.75	0.75	(1.0)
olv20*	0.0	0.75	0.75	(1.0)
olv21*	0.0	0.75	0.75	(1.0)
olv22*	0.0	0.75	0.75	(1.0)
olv23*	0.0	0.75	0.75	(1.0)
olv24*	0.0	0.75	0.75	(1.0)
olv25*	0.0	0.75	0.75	(1.0)
olv26*	0.0	0.75	0.75	(1.0)
olv27*	0.0	0.75	0.75	(1.0)
olv28*	0.0	0.75	0.75	(1.0)
olv29*	0.0	0.75	0.75	(1.0)
olv30*	0.0	0.75	0.75	(1.0)
olv31*	0.0	0.75	0.75	(1.0)
olv32*	0.0	0.75	0.75	(1.0)
olv33*	0.0	0.75	0.75	(1.0)
olv34*	0.0	0.75	0.75	(1.0)
olv35*	0.0	0.75	0.75	(1.0)
olv36*	0.0	0.75	0.75	(1.0)
olv37*	0.0	0.75	0.75	(1.0)
olv38*	0.0	0.75	0.75	(1.0)
olv39*	0.0	0.75	0.75	(1.0)
olv40*	0.0	0.75	0.75	(1.0)
olv41*	0.0	0.75	0.75	(1.0)
olv42*	0.0	0.75	0.75	(1.0)
olv43*	0.0	0.75	0.75	(1.0)
olv44*	0.0	0.75	0.75	(1.0)
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olv47*	0.0	0.75	0.75	(1.0)
olv48*	0.0	0.75	0.75	(1.0)
olv49*	0.0	0.75	0.75	(1.0)
olv50*	0.0	0.75	0.75	(1.0)
olv51*	0.0	0.75	0.75	(1.0)
olv52*	0.0	0.75	0.75	(1.0)
olv53*	0.0	0.75	0.75	(1.0)
olv54*	0.0	0.75	0.75	(1.0)
olv55*	0.0	0.75	0.75	(1.0)
olv56*	0.0	0.75	0.75	(1.0)
olv57*	0.0	0.75	0.75	(1.0)
olv58*	0.0	0.75	0.75	(1.0)
olv59*	0.0	0.75	0.75	(1.0)
olv60*	0.0	0.75	0.75	(1.0)
olv61*	0.0	0.75	0.75	(1.0)
olv62*	0.0	0.75	0.75	(1.0)
olv63*	0.0	0.75	0.75	(1.0)
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olv65*	0.0	0.75	0.75	(1.0)
olv66*	0.0	0.75	0.75	(1.0)
olv67*	0.0	0.75	0.75	(1.0)
olv68*	0.0	0.75	0.75	(1.0)
olv69*	0.0	0.75	0.75	(1.0)
olv70*	0.0	0.75	0.75	(1.0)
olv71*	0.0	0.75	0.75	(1.0)
olv72*	0.0	0.75	0.75	(1.0)
olv73*	0.0	0.75	0.75	(1.0)
olv74*	0.0	0.75	0.75	(1.0)
olv75*	0.0	0.75	0.75	(1.0)
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olv79*	0.0	0.75	0.75	(1.0)
olv80*	0.0	0.75	0.75	(1.0)
olv81*	0.0	0.75	0.75	(1.0)
olv82*	0.0	0.75	0.75	(1.0)
olv83*	0.0	0.75	0.75	(1.0)
olv84*	0.0	0.75	0.75	(1.0)
olv85*	0.0	0.75	0.75	(1.0)
olv86*	0.0	0.75	0.75	(1.0)
olv87*	0.0	0.75	0.75	(1.0)
olv88*	0.0	0.75	0.75	(1.0)
olv89*	0.0	0.75	0.75	(1.0)
olv90*	0.0	0.75	0.75	(1.0)
olv91*	0.0	0.75	0.75	(1.0)
olv92*	0.0	0.75	0.75	(1.0)
olv93*	0.0	0.75	0.75	(1.0)
olv94*	0.0	0.75	0.75	(1.0)
olv95*	0.0	0.75	0.75	(1.0)
olv96*	0.0	0.75	0.75	(1.0)
olv97*	0.0	0.75	0.75	(1.0)
olv98*	0.0	0.75	0.75	(1.0)
olv99*	0.0	0.75	0.75	(1.0)
olv100*	0.0	0.75	0.75	(1.0)

LAB* <i>TCHa</i>	87.5	21.81	34.85
relative CIELAB <i>lab</i> *			
<i>lab</i> * <i>lab</i>	0.862	0.205	0.143
<i>lab</i> * <i>tch</i>	0.875	0.25	0.097
<i>lab</i> * <i>nch</i>	0.0	0.25	0.097
relative Natural Colour (NC)			
<i>lab</i> * <i>lrj</i>	0.862	0.244	0.055
<i>lab</i> * <i>tce</i>	0.875	0.25	0.035
<i>lab</i> * <i>nce</i>	0.0	0.25	r14j

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 196/360 = 0.546$

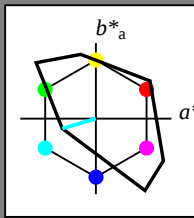
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 87 46 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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	58.74	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

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*TCHa 99.99 0.01

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 93.34 -11.09 -3.27
LAB*LABa 93.34 -11.09 -3.27
LAB*TCHa 97.5 11.57 196.46

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 91.27 -22.2 -6.55
LAB*LABa 91.27 -22.2 -6.55
LAB*TCHa 75.0 23.15 196.46

relative Inform. Technology (IT)
olv3* 0.25 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.25 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 89.2 -33.3 -9.83
LAB*LABa 89.2 -33.3 -9.83
LAB*TCHa 62.5 34.73 196.46

relative Inform. Technology (IT)
olv3* 0.0 1.0 1.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 87.13 -44.4 -13.11
LAB*LABa 87.13 -44.4 -13.11
LAB*TCHa 50.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.0 0.75 0.75 (1.0)
cmyn4* 0.75 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 85.01 -55.67 -10.52
LAB*LABa 85.01 -55.67 -10.52
LAB*TCHa 37.51 34.73 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.5 0.25 0.25 (0.0)
olv4* 0.0 0.5 0.5 (1.0)
cmyn4* 0.5 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 82.74 -66.6 -13.11
LAB*LABa 82.74 -66.6 -13.11
LAB*TCHa 30.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (1.0)
cmyn3* 0.25 0.125 0.125 (0.0)
olv4* 0.0 0.25 0.25 (1.0)
cmyn4* 0.25 0.125 0.125 (0.0)
standard and adapted CIELAB
LAB*LAB 80.57 -77.7 -15.88
LAB*LABa 80.57 -77.7 -15.88
LAB*TCHa 25.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.125 0.125 (1.0)
cmyn3* 0.125 0.0625 0.0625 (0.0)
olv4* 0.0 0.125 0.125 (1.0)
cmyn4* 0.125 0.0625 0.0625 (0.0)
standard and adapted CIELAB
LAB*LAB 78.40 -88.81 -18.47
LAB*LABa 78.40 -88.81 -18.47
LAB*TCHa 20.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.0625 0.0625 (1.0)
cmyn3* 0.0625 0.03125 0.03125 (0.0)
olv4* 0.0 0.0625 0.0625 (1.0)
cmyn4* 0.0625 0.03125 0.03125 (0.0)
standard and adapted CIELAB
LAB*LAB 76.23 -100.0 -21.26
LAB*LABa 76.23 -100.0 -21.26
LAB*TCHa 15.0 46.31 196.46

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 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.0 0.01

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.0 0.25 0.25 (1.0)
cmyn4* 0.75 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.28 -22.5 -5.78
LAB*LABa 35.28 -22.5 -5.78
LAB*TCHa 37.5 11.57 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.125 0.125 (1.0)
cmyn3* 0.125 0.0625 0.0625 (0.0)
olv4* 0.0 0.125 0.125 (1.0)
cmyn4* 0.125 0.0625 0.0625 (0.0)
standard and adapted CIELAB
LAB*LAB 33.11 -33.3 -9.83
LAB*LABa 33.11 -33.3 -9.83
LAB*TCHa 30.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.0625 0.0625 (1.0)
cmyn3* 0.0625 0.03125 0.03125 (0.0)
olv4* 0.0 0.0625 0.0625 (1.0)
cmyn4* 0.0625 0.03125 0.03125 (0.0)
standard and adapted CIELAB
LAB*LAB 30.94 -44.4 -13.11
LAB*LABa 30.94 -44.4 -13.11
LAB*TCHa 25.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.03125 0.03125 (1.0)
cmyn3* 0.03125 0.015625 0.015625 (0.0)
olv4* 0.0 0.03125 0.03125 (1.0)
cmyn4* 0.03125 0.015625 0.015625 (0.0)
standard and adapted CIELAB
LAB*LAB 28.77 -55.67 -10.52
LAB*LABa 28.77 -55.67 -10.52
LAB*TCHa 20.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.015625 0.015625 (1.0)
cmyn3* 0.015625 0.0078125 0.0078125 (0.0)
olv4* 0.0 0.015625 0.015625 (1.0)
cmyn4* 0.015625 0.0078125 0.0078125 (0.0)
standard and adapted CIELAB
LAB*LAB 26.60 -66.6 -13.11
LAB*LABa 26.60 -66.6 -13.11
LAB*TCHa 15.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.0078125 0.0078125 (1.0)
cmyn3* 0.0078125 0.00390625 0.00390625 (0.0)
olv4* 0.0 0.0078125 0.0078125 (1.0)
cmyn4* 0.0078125 0.00390625 0.00390625 (0.0)
standard and adapted CIELAB
LAB*LAB 24.43 -77.7 -15.88
LAB*LABa 24.43 -77.7 -15.88
LAB*TCHa 10.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.00390625 0.00390625 (1.0)
cmyn3* 0.00390625 0.001953125 0.001953125 (0.0)
olv4* 0.0 0.00390625 0.00390625 (1.0)
cmyn4* 0.00390625 0.001953125 0.001953125 (0.0)
standard and adapted CIELAB
LAB*LAB 22.26 -88.81 -18.47
LAB*LABa 22.26 -88.81 -18.47
LAB*TCHa 5.0 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.001953125 0.001953125 (1.0)
cmyn3* 0.001953125 0.0009765625 0.0009765625 (0.0)
olv4* 0.0 0.001953125 0.001953125 (1.0)
cmyn4* 0.001953125 0.0009765625 0.0009765625 (0.0)
standard and adapted CIELAB
LAB*LAB 20.09 -100.0 -21.26
LAB*LABa 20.09 -100.0 -21.26
LAB*TCHa 0.01 46.31 196.46

relative Inform. Technology (IT)
olv3* 0.0 0.0009765625 0.0009765625 (1.0)
cmyn3* 0.0009765625 0.00048828125 0.00048828125 (0.0)
olv4* 0.0 0.0009765625 0.0009765625 (1.0)
cmyn4* 0.0009765625 0.00048828125 0.00048828125 (0.0)
standard and adapted CIELAB
LAB*LAB 17.92 -111.1 -23.97
LAB*LABa 17.92 -111.1 -23.97
LAB*TCHa 0.01 46.31 196.46

NE560-7, 5 step scales for constant CIELAB hue 196/360 = 0.546 (left)

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

BAM-test chart NE56; Colorimetric systems TLS18 & ORS18

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

input: `olv* setrgbcolor`

output: *no change compared to input*

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 304/360 = 0.845$

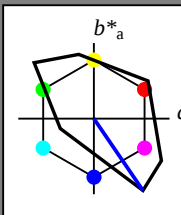
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 35 115 304

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a_a^*	b_a^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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	58.74	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
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olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
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olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0

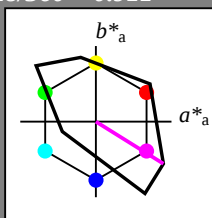
relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 328/360 = 0.911$
 lab^*tch and lab^*nch

D65: hue M
LCH*Ma: 59 105 328
olv*Ma: 1.0 0.0 1.0
triangle lightness t^*



TLS18; adapted (a) CIELAB data					
	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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	58.74	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmv3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 95.41 0.0 0.0
LAB*Lab 95.41 0.0 0.0
LAB*Lab 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*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 76.07 0.0 0.0
LAB*Lab 76.07 0.0 0.0
LAB*Lab 76.07 0.0 0.0

relative CIELAB lab*
lab*lab 0.882 0.175 -0.177
lab*tch 0.875 0.25 0.911
lab*nch 0.0 0.25 0.911
relative Natural Colour (NC)
lab*trj 0.882 0.175 -0.177
lab*tce 0.875 0.25 0.911
lab*nce 0.0 0.25 0.911

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 56.72 0.0 0.0
LAB*Lab 56.72 0.0 0.0
LAB*Lab 56.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.632 0.175 -0.177
lab*tch 0.625 0.25 0.911
lab*nch 0.0 0.25 0.911
relative Natural Colour (NC)
lab*trj 0.632 0.175 -0.177
lab*tce 0.625 0.25 0.911
lab*nce 0.0 0.25 0.911

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 37.37 0.0 0.0
LAB*Lab 37.37 0.0 0.0
LAB*Lab 37.37 0.0 0.0

relative CIELAB lab*
lab*lab 0.382 0.175 -0.177
lab*tch 0.375 0.25 0.911
lab*nch 0.0 0.25 0.911
relative Natural Colour (NC)
lab*trj 0.382 0.175 -0.177
lab*tce 0.375 0.25 0.911
lab*nce 0.0 0.25 0.911

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0

relative CIELAB lab*
lab*lab 0.132 0.175 -0.177
lab*tch 0.125 0.25 0.911
lab*nch 0.0 0.25 0.911
relative Natural Colour (NC)
lab*trj 0.132 0.175 -0.177
lab*tce 0.125 0.25 0.911
lab*nce 0.0 0.25 0.911

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 0.01 0.01
LAB*Lab 0.01 0.01
LAB*Lab 0.01 0.01

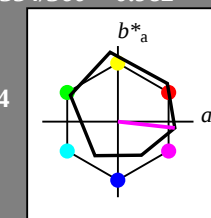
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

NE560-7, 5 step scales for constant CIELAB hue 328/360 = 0.911 (left)

Output: 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^*



ORS18; adapted (a) CIELAB data					
	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
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)
cmv3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 95.41 -0.98 4.75
LAB*Lab 95.41 0.0 0.0
LAB*Lab 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*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 76.06 -0.61 3.44
LAB*Lab 76.06 0.0 0.0
LAB*Lab 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.847 0.248 -0.027
lab*tch 0.875 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.847 0.248 -0.027
lab*tce 0.875 0.25 0.982
lab*nce 0.0 0.25 0.982

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 64.24 18.43 0.56
LAB*Lab 64.24 18.43 0.56
LAB*Lab 64.24 18.43 0.56

relative CIELAB lab*
lab*lab 0.695 0.454 -0.208
lab*tch 0.695 0.454 -0.208
lab*nch 0.0 0.454 -0.208
relative Natural Colour (NC)
lab*trj 0.695 0.454 -0.208
lab*tce 0.695 0.454 -0.208
lab*nce 0.0 0.454 -0.208

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 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 CIELAB lab*
lab*lab 0.597 0.227 -0.103
lab*tch 0.625 0.25 0.932
lab*nch 0.0 0.25 0.932
relative Natural Colour (NC)
lab*trj 0.597 0.227 -0.103
lab*tce 0.625 0.25 0.932
lab*nce 0.0 0.25 0.932

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 37.36 0.0 0.0
LAB*Lab 37.36 0.0 0.0
LAB*Lab 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.347 0.227 -0.103
lab*tch 0.347 0.227 -0.103
lab*nch 0.0 0.227 -0.103
relative Natural Colour (NC)
lab*trj 0.347 0.227 -0.103
lab*tce 0.347 0.227 -0.103
lab*nce 0.0 0.227 -0.103

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*Lab 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 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

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

BAM-test chart NE56; Colorimetric systems TLS18 & ORS18

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

input: `olv* setrgbcolor`

output: `no change compared to input`

chromaticness c^*

chromaticness c^*

Input: Colorimetric Television Luminous System TLS18

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

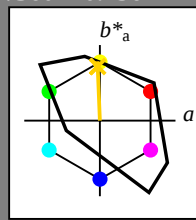
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 79 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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	58.74	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

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*TCHa 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 0.954 0.75 (1.0)
cmyn3* 0.0 0.046 0.25 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 92.9 -0.79 19.62
LAB*LABa 92.9 -0.79 19.62
LAB*TCHa 87.5 19.64 92.33

relative CIELAB lab*
lab*lab 0.954 -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 0.954 0.25 0.256
lab*tce 0.875 0.25 0.256
lab*nce 0.0 0.25 0.256

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 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCHa 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 0.0 0.0
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 0.0 0.0

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 90.39 -1.58 39.25
LAB*LABa 90.39 -1.58 39.25
LAB*TCHa 75.0 39.29 92.32

relative CIELAB lab*
lab*lab 0.935 -0.019 0.499
lab*tch 0.75 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*trj 0.935 0.5 0.256
lab*tce 0.75 0.5 0.256
lab*nce 0.0 0.5 0.256

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 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCHa 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.688 0.25 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 73.55 -0.78 19.63
LAB*LABa 73.55 -0.78 19.63
LAB*TCHa 62.5 19.64 92.31

relative CIELAB lab*
lab*lab 0.718 -0.009 0.25
lab*tch 0.625 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.718 0.25 0.256
lab*tce 0.625 0.25 0.256
lab*nce 0.0 0.25 0.256

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 -1.58 39.26
LAB*LABa 71.05 -1.58 39.26
LAB*TCHa 50.0 39.29 92.31

relative CIELAB lab*
lab*lab 0.903 -0.029 0.749
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.903 0.75 0.256
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 -1.58 39.26
LAB*LABa 71.05 -1.58 39.26
LAB*TCHa 50.0 39.29 92.31

relative CIELAB lab*
lab*lab 0.903 -0.029 0.749
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.903 0.75 0.256
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 -1.58 39.26
LAB*LABa 71.05 -1.58 39.26
LAB*TCHa 50.0 39.29 92.31

relative CIELAB lab*
lab*lab 0.903 -0.029 0.749
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.903 0.75 0.256
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 -1.58 39.26
LAB*LABa 71.05 -1.58 39.26
LAB*TCHa 50.0 39.29 92.31

relative CIELAB lab*
lab*lab 0.903 -0.029 0.749
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.903 0.75 0.256
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 -1.58 39.26
LAB*LABa 71.05 -1.58 39.26
LAB*TCHa 50.0 39.29 92.31

relative CIELAB lab*
lab*lab 0.903 -0.029 0.749
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.903 0.75 0.256
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 -1.58 39.26
LAB*LABa 71.05 -1.58 39.26
LAB*TCHa 50.0 39.29 92.31

relative CIELAB lab*
lab*lab 0.903 -0.029 0.749
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.903 0.75 0.256
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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 0.0 0.0
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 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 -1.58 39.26
LAB*LABa 71.05 -1.58 39.26
LAB*TCHa 50.0 39.29 92.31

relative CIELAB lab*
lab*lab 0.903 -0.029 0.749
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.903 0.75 0.256
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

Output: Colorimetric Offset Reflective System ORS18

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

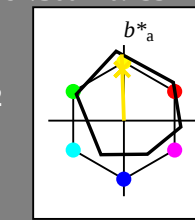
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 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 0.975 0.75 (1.0)
cmyn3* 0.0 0.025 0.25 (0.0)
olv4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 93.1 -1.64 26.52
LAB*LABa 93.1 0.7 21.92
LAB*TCHa 87.5 21.93 91.85

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 0.25 0.25
lab*tce 0.875 0.25 0.25
lab*nce 0.0 0.25 0.25

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 -0.61 3.44
LAB*TCHa 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 0.0 0.0
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 0.0 0.0

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 73.75 -1.27 25.22
LAB*LABa 73.75 -1.27 25.22
LAB*TCHa 62.5 25.22 91.84

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 0.0 0.0
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 0.0 0.0

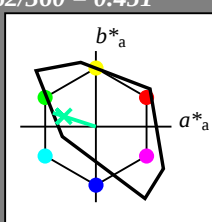
relative Inform

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 162/360 = 0.451$
 lab^*tch and lab^*nch

D65: hue G
LCH*Ma: 86 60 162
olv*Ma: 0.0 1.0 0.64

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

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.91 (1.0)
cmyn3* 0.25 0.0 0.09 (0.0)
olv4* 0.75 1.0 0.91 (1.0)
cmyn4* 0.25 0.0 0.09 (0.0)
standard and adapted CIELAB
LAB*LAB 93.05 -14.2 4.55
LAB*LABa 93.05 -14.2 4.55
LAB*LABb 97.5 14.92 16.24

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.82 (1.0)
cmyn3* 0.5 0.0 0.18 (0.0)
olv4* 0.5 1.0 0.82 (1.0)
cmyn4* 0.5 0.0 0.18 (0.0)
standard and adapted CIELAB
LAB*LAB 90.7 -28.42 9.11
LAB*LABa 90.7 -28.42 9.11
LAB*LABb 76.0 -0.61 3.44

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.64 (1.0)
cmyn3* 0.25 0.0 0.36 (0.0)
olv4* 0.25 1.0 0.64 (1.0)
cmyn4* 0.25 0.0 0.36 (0.0)
standard and adapted CIELAB
LAB*LAB 88.35 -42.63 13.67
LAB*LABa 88.35 -42.63 13.67
LAB*LABb 65.41 -13.7 3.81

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.0 -0.61 3.44
LAB*LABa 76.0 -0.61 3.44
LAB*LABb 50.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (1.0)
olv4* 0.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (1.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -14.11 6.35
LAB*LABb 44.11 -11.14 1.44

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.75 (1.0)
cmyn3* 0.0 0.25 0.75 (1.0)
olv4* 0.0 0.25 0.75 (1.0)
cmyn4* 0.0 0.25 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 54.76 -27.61 9.64
LAB*LABa 54.76 -27.61 9.64
LAB*LABb 35.41 -7.74 7.63

relative Inform. Technology (IT)
olv3* 0.0 0.125 0.875 (1.0)
cmyn3* 0.0 0.125 0.875 (1.0)
olv4* 0.0 0.125 0.875 (1.0)
cmyn4* 0.0 0.125 0.875 (1.0)
standard and adapted CIELAB
LAB*LAB 46.06 -13.74 5.24
LAB*LABa 46.06 -13.74 5.24
LAB*LABb 26.71 -2.74 2.74

relative Inform. Technology (IT)
olv3* 0.0 0.0625 0.9375 (1.0)
cmyn3* 0.0 0.0625 0.9375 (1.0)
olv4* 0.0 0.0625 0.9375 (1.0)
cmyn4* 0.0 0.0625 0.9375 (1.0)
standard and adapted CIELAB
LAB*LAB 37.36 -10.13 3.81
LAB*LABa 37.36 -10.13 3.81
LAB*LABb 18.02 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.03125 0.96875 (1.0)
cmyn3* 0.0 0.03125 0.96875 (1.0)
olv4* 0.0 0.03125 0.96875 (1.0)
cmyn4* 0.0 0.03125 0.96875 (1.0)
standard and adapted CIELAB
LAB*LAB 30.12 -5.65 1.94
LAB*LABa 30.12 -5.65 1.94
LAB*LABb 10.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.015625 0.984375 (1.0)
cmyn3* 0.0 0.015625 0.984375 (1.0)
olv4* 0.0 0.015625 0.984375 (1.0)
cmyn4* 0.0 0.015625 0.984375 (1.0)
standard and adapted CIELAB
LAB*LAB 24.49 -2.74 0.63
LAB*LABa 24.49 -2.74 0.63
LAB*LABb 5.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0078125 0.9921875 (1.0)
cmyn3* 0.0 0.0078125 0.9921875 (1.0)
olv4* 0.0 0.0078125 0.9921875 (1.0)
cmyn4* 0.0 0.0078125 0.9921875 (1.0)
standard and adapted CIELAB
LAB*LAB 19.12 -1.37 0.32
LAB*LABa 19.12 -1.37 0.32
LAB*LABb 2.5 0.0 0.0

TLS18; adapted (a) CIELAB data	L*	a*	b*	C* _{ab,a}	h* _{ab,a}
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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	58.74	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.812 (1.0)
cmyn3* 0.25 0.0 0.188 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 93.05 -14.2 4.55
LAB*LABa 93.05 -14.2 4.55
LAB*LABb 97.5 14.92 16.46

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.812 (1.0)
cmyn3* 0.5 0.0 0.188 (0.0)
olv4* 0.5 1.0 0.812 (1.0)
cmyn4* 0.5 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 90.7 -28.42 9.11
LAB*LABa 90.7 -28.42 9.11
LAB*LABb 76.0 -0.61 3.44

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.625 (1.0)
cmyn3* 0.25 0.0 0.375 (0.0)
olv4* 0.25 1.0 0.625 (1.0)
cmyn4* 0.25 0.0 0.375 (0.0)
standard and adapted CIELAB
LAB*LAB 88.35 -42.63 13.67
LAB*LABa 88.35 -42.63 13.67
LAB*LABb 65.41 -13.7 3.81

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.0 -0.61 3.44
LAB*LABa 76.0 -0.61 3.44
LAB*LABb 50.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (1.0)
olv4* 0.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (1.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -14.11 6.35
LAB*LABb 44.11 -11.14 1.44

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.75 (1.0)
cmyn3* 0.0 0.25 0.75 (1.0)
olv4* 0.0 0.25 0.75 (1.0)
cmyn4* 0.0 0.25 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 54.76 -27.61 9.64
LAB*LABa 54.76 -27.61 9.64
LAB*LABb 35.41 -7.74 7.63

relative Inform. Technology (IT)
olv3* 0.0 0.125 0.875 (1.0)
cmyn3* 0.0 0.125 0.875 (1.0)
olv4* 0.0 0.125 0.875 (1.0)
cmyn4* 0.0 0.125 0.875 (1.0)
standard and adapted CIELAB
LAB*LAB 46.06 -13.74 5.24
LAB*LABa 46.06 -13.74 5.24
LAB*LABb 26.71 -2.74 2.74

relative Inform. Technology (IT)
olv3* 0.0 0.0625 0.9375 (1.0)
cmyn3* 0.0 0.0625 0.9375 (1.0)
olv4* 0.0 0.0625 0.9375 (1.0)
cmyn4* 0.0 0.0625 0.9375 (1.0)
standard and adapted CIELAB
LAB*LAB 37.36 -10.13 3.81
LAB*LABa 37.36 -10.13 3.81
LAB*LABb 18.02 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.03125 0.96875 (1.0)
cmyn3* 0.0 0.03125 0.96875 (1.0)
olv4* 0.0 0.03125 0.96875 (1.0)
cmyn4* 0.0 0.03125 0.96875 (1.0)
standard and adapted CIELAB
LAB*LAB 30.12 -5.65 1.94
LAB*LABa 30.12 -5.65 1.94
LAB*LABb 10.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.015625 0.984375 (1.0)
cmyn3* 0.0 0.015625 0.984375 (1.0)
olv4* 0.0 0.015625 0.984375 (1.0)
cmyn4* 0.0 0.015625 0.984375 (1.0)
standard and adapted CIELAB
LAB*LAB 24.49 -2.74 0.63
LAB*LABa 24.49 -2.74 0.63
LAB*LABb 5.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0078125 0.9921875 (1.0)
cmyn3* 0.0 0.0078125 0.9921875 (1.0)
olv4* 0.0 0.0078125 0.9921875 (1.0)
cmyn4* 0.0 0.0078125 0.9921875 (1.0)
standard and adapted CIELAB
LAB*LAB 19.12 -1.37 0.32
LAB*LABa 19.12 -1.37 0.32
LAB*LABb 2.5 0.0 0.0

NE560-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

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

BAM-test chart NE56; Colorimetric systems TLS18 & ORS18

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

input: `olv* setrgbcolor`

output: `no change compared to input`

