

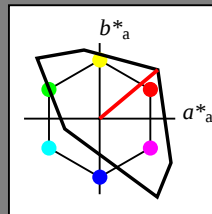
Input: Colorimetric Television Luminous System TLS00

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

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

D65: hue O
LCH*Ma: 51 100 40
olv*Ma: 1.0 0.0 0.0

triangle lightness



%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

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

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

1,00

0,75

blackness n^*

chromaticness c^*

NE450-7, 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)



BAM-test chart NE45; Colorimetric systems TLS00 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

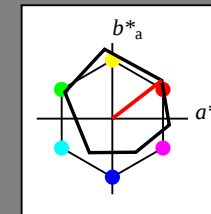
Output: Colorimetric Offset Reflective System ORS18

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

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

D65: hue O
LCH*Ma: 48 83 38
olv*Ma: 1.0 0.0 0.0

triangle lightness



%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

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

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

blackness n^*

chromaticness c^*

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

input: $olv^* \cdot setrgbcolor$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

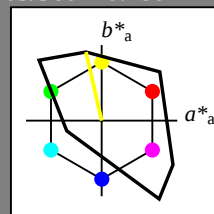
for hue $h^* = lab \cdot h = 103/360 = 0.286$

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

D65: hue Y
LCH*Ma: 93 93 103
olv*Ma: 1.0 1.0 0.0

triangle lightness

1,00



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

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

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

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
olvi3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	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*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
olvi3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	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	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
olvi3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.24	2.14		
LAB*LAB	56.71	0.0	0.0		
LAB*LAB	56.71	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
olvi3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LAB	37.36	0.0	0.0		
LAB*LAB	37.36	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
olvi3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.47		
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*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		

$n^* = 1.0$

NE450-7, 5 step scales for constant CIELAB hue 103/360 = 0.286 (left)



BAM-test chart NE45; Colorimetric systems TLS00 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

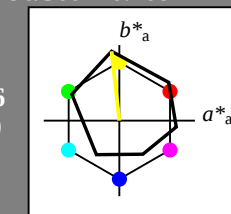
for hue $h^* = lab \cdot h = 96/360 = 0.268$

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

D65: hue Y
LCH*Ma: 90 92 96
olv*Ma: 1.0 1.0 0.0

triangle lightness

1,00



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

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
olvi3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	94.14	-3.52	27.6		
LAB*LAB	94.14	-2.56	22.93		
LAB*LAB	94.14	-2.56	22.93		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
olvi3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	74.8	-3.15	26.3		
LAB*LAB	74.8	-2.56	22.94		
LAB*LAB	74.8	-2.56	22.94		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		
lab*trj	0.75	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
olvi3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.45	-2.78	25.0		
LAB*LAB	54.45	-2.56	22.94		
LAB*LAB	54.45	-2.56	22.94		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
olvi3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	36.24	0.13	0.84		
LAB*LAB	36.24	0.0	0.0		
LAB*LAB	36.24	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
olvi3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
olvi4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.47		
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*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		
lab*trj	0.0	0.0	0.0		

$n^* = 1.0$

5 step

Input: Colorimetric Television Luminous System TLS00

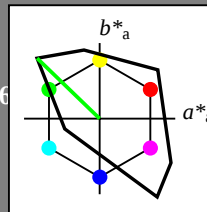
for hue $h^* = lab \cdot h = 136/360 = 0.378$

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

D65: hue L
LCH*Ma: 84 115 136
olv*Ma: 0.0 1.0 0.0

triangle lightness

1,00



% 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

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

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

1,00

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

Output: Colorimetric Offset Reflective System ORS18

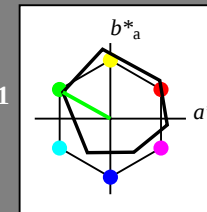
for hue $h^* = lab \cdot h = 151/360 = 0.419$

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

D65: hue L
LCH*Ma: 51 72 151
olv*Ma: 0.0 1.0 0.0

triangle lightness

1,00



% 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

006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	006010	00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Page: count: 5

Input: Colorimetric Television Luminous System TLS00

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

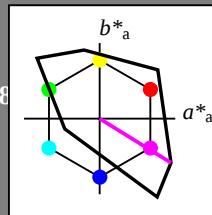
$lab \cdot tch$ and $lab \cdot nch$

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

triangle lightness



$u^*_{rel} = 158$

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

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

NE450-7, 5 step scales for constant CIELAB hue 328/360 = 0.912 (left)



BAM-test chart NE45; Colorimetric systems TLS00 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

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

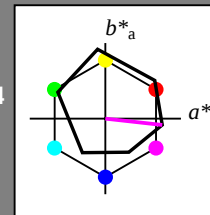
$lab \cdot tch$ and $lab \cdot nch$

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness



$u^*_{rel} = 93$

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

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

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

input: $olv^* \cdot setrgbcolor$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

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

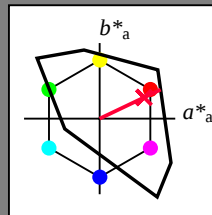
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21

triangle lightness



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

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

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

1,00

0,75

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

NE450-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)



BAM-test chart NE45; Colorimetric systems TLS00 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

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

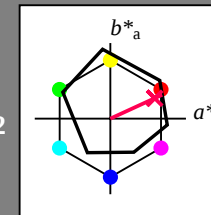
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32

triangle lightness



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

0,50

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

input: $olv^* \text{ setrgbcolor}$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

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

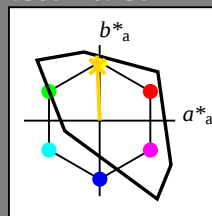
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

triangle lightness



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

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

NE450-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)



BAM-test chart NE45; Colorimetric systems TLS00 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

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

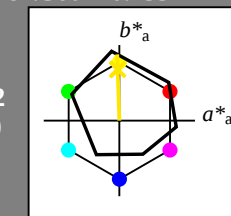
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

triangle lightness



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

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

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

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

input: $olv^* \cdot setrgbcolor$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 162/360 = 0.451$

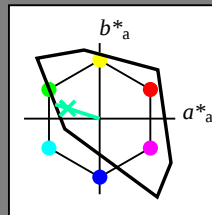
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65

triangle lightness



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

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

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

1,00

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

NE450-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)



BAM-test chart NE45; Colorimetric systems TLS00 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

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

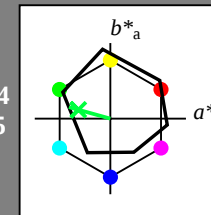
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

triangle lightness



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

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

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

input: $olv^* \text{ setrgbcolor}$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

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

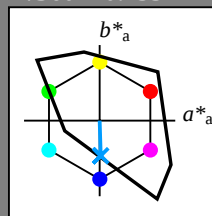
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 1.0

triangle lightness



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

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

Output: Colorimetric Offset Reflective System ORS18

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

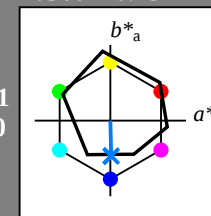
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0

triangle lightness



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

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

NE450-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart NE45; Colorimetric systems TLS00 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input: $olv^* \text{ setrgbcolor}$

output: no change compared to input