

15

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Input: Colorimetric Television Luminous System TLS18

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

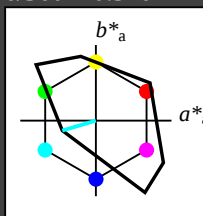
$lab \cdot tch$ and $lab \cdot nch$

D65: hue C

LCH*Ma: 87 46 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 118$

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	(0.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.07	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*TCa	99.99	0.0	0.0	

standard and adapted CIELAB

LAB*LAB	76.07	0.0	0.0
LAB*Lab	95.41	0.0	0.0
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olv3*	0.75	0.75	0.75	(1.0)
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standard and adapted CIELAB

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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*	0.75	0.75	0.75	(1.0)
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cmyn3*	0.0	0.0	0.0	(0.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	91.27	-22.2	-6.55	
LAB*Lab	91.27	-22.2	-6.55	
LAB*TCa	91.27	-22.2	-6.55	

standard and adapted CIELAB

LAB*LAB	91.27	-22.2	-6.55
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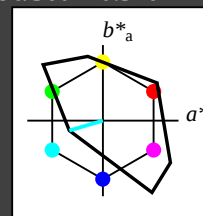
$lab \cdot tch$ and $lab \cdot nch$

D65: hue C

LCH*Ma: 87 46 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

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NE59-7, 5 step scales for constant CIELAB hue 196/360 = 0.546 (left)

5 step scales for constant CIELAB hue 196/360 = 0.546 (right)

BAM-test chart NE59; Colorimetric systems TLS18 & TLS18

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

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

output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

Input: Colorimetric Television Luminous System TLS18

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

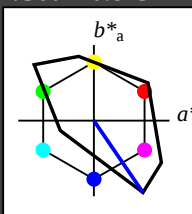
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 35 115 304

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data

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olv6*	0.75	0.75	0.75	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0
olv21*	0.75	0.75	0.75	1.0	1.0
olv22*	0.75	0.75	0.75	1.0	1.0
olv23*	0.75	0.75	0.75	1.0	1.0
olv24*	0.75	0.75	0.75	1.0	1.0
olv25*	0.75	0.75	0.75	1.0	1.0
olv26*	0.75	0.75	0.75	1.0	1.0
olv27*	0.75	0.75	0.75	1.0	1.0
olv28*	0.75	0.75	0.75	1.0	1.0
olv29*	0.75	0.75	0.75	1.0	1.0
olv30*	0.75	0.75	0.75	1.0	1.0
olv31*	0.75	0.75	0.75	1.0	1.0
olv32*	0.75	0.75	0.75	1.0	1.0
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olv34*	0.75	0.75	0.75	1.0	1.0
olv35*	0.75	0.75	0.75	1.0	1.0
olv36*	0.75	0.75	0.75	1.0	1.0
olv37*	0.75	0.75	0.75	1.0	1.0
olv38*	0.75	0.75	0.75	1.0	1.0
olv39*	0.75	0.75	0.75	1.0	1.0
olv40*	0.75	0.75	0.75	1.0	1.0
olv41*	0.75	0.75	0.75	1.0	1.0
olv42*	0.75	0.75	0.75	1.0	1.0
olv43*	0.75	0.75	0.75	1.0	1.0
olv44*	0.75	0.75	0.75	1.0	1.0
olv45*	0.75	0.75	0.75	1.0	1.0
olv46*	0.75	0.75	0.75	1.0	1.0
olv47*	0.75	0.75	0.75	1.0	1.0
olv48*	0.75	0.75	0.75	1.0	1.0
olv49*	0.75	0.75	0.75	1.0	1.0
olv50*	0.75	0.75	0.75	1.0	1.0
olv51*	0.75	0.75	0.75	1.0	1.0
olv52*	0.75	0.75	0.75	1.0	1.0
olv53*	0.75	0.75	0.75	1.0	1.0
olv54*	0.75	0.75	0.75	1.0	1.0
olv55*	0.75	0.75	0.75	1.0	1.0
olv56*	0.75	0.75	0.75	1.0	1.0
olv57*	0.75	0.75	0.75	1.0	1.0
olv58*	0.75	0.75	0.75	1.0	1.0
olv59*	0.75	0.75	0.75	1.0	1.0
olv60*	0.75	0.75	0.75	1.0	1.0
olv61*	0.75	0.75	0.75	1.0	1.0
olv62*	0.75	0.75	0.75	1.0	1.0
olv63*	0.75	0.75	0.75	1.0	1.0
olv64*	0.75	0.75	0.75	1.0	1.0
olv65*	0.75	0.75	0.75	1.0	1.0
olv66*	0.75	0.75	0.75	1.0	1.0
olv67*	0.75	0.75	0.75	1.0	1.0
olv68*	0.75	0.75	0.75	1.0	1.0
olv69*	0.75	0.75	0.75	1.0	1.0
olv70*	0.75	0.75	0.75	1.0	1.0
olv71*	0.75	0.75	0.75	1.0	1.0
olv72*	0.75	0.75	0.75	1.0	1.0
olv73*	0.75	0.75	0.75	1.0	1.0
olv74*	0.75	0.75	0.75	1.0	1.0
olv75*	0.75	0.75	0.75	1.0	1.0
olv76*	0.75	0.75	0.75	1.0	1.0
olv77*	0.75	0.75	0.75	1.0	1.0
olv78*	0.75	0.75	0.75	1.0	1.0
olv79*	0.75	0.75	0.75	1.0	1.0
olv80*	0.75	0.75	0.75	1.0	1.0
olv81*	0.75	0.75	0.75	1.0	1.0
olv82*	0.75	0.75	0.75	1.0	1.0
olv83*	0.75	0.75	0.75	1.0	1.0
olv84*	0.75	0.75	0.75	1.0	1.0
olv85*	0.75	0.75	0.75	1.0	1.0
olv86*	0.75	0.75	0.75	1.0	1.0
olv87*	0.75	0.75	0.75	1.0	1.0
olv88*	0.75	0.75	0.75	1.0	1.0
olv89*	0.75	0.75	0.75	1.0	1.0
olv90*	0.75	0.75	0.75	1.0	1.0
olv91*	0.75	0.75	0.75	1.0	1.0
olv92*	0.75	0.75	0.75	1.0	1.0
olv93*	0.75	0.75	0.75	1.0	1.0
olv94*	0.75	0.75	0.75	1.0	1.0
olv95*	0.75	0.75	0.75	1.0	1.0
olv96*	0.75	0.75	0.75	1.0	1.0
olv97*	0.75	0.75	0.75	1.0	1.0
olv98*	0.75	0.75	0.75	1.0	1.0
olv99*	0.75	0.75	0.75	1.0	1.0
olv100*	0.75	0.75	0.75	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0
olv21*	0.75	0.75	0.75	1.0	1.0
olv22*	0.75	0.75	0.75	1.0	1.0
olv23*	0.75	0.75	0.75	1.0	1.0
olv24*	0.75	0.75	0.75	1.0	1.0
olv25*	0.75	0.75	0.75	1.0	1.0
olv26*	0.75	0.75	0.75	1.0	1.0
olv27*	0.75	0.75	0.75	1.0	1.0
olv28*	0.75	0.75	0.75	1.0	1.0
olv29*	0.75	0.75	0.75	1.0	1.0
olv30*	0.75	0.75	0.75	1.0	1.0
olv31*	0.75	0.75	0.75	1.0	1.0
olv32*	0.75	0.75	0.75	1.0	1.0
olv33*	0.75	0.75	0.75	1.0	1.0
olv34*	0.75	0.75	0.75	1.0	1.0
olv35*	0.75	0.75	0.75	1.0	1.0
olv36*	0.75	0.75	0.75	1.0	1.0
olv37*	0.75	0.75	0.75	1.0	1.0
olv38*	0.75	0.75	0.75	1.0	1.0
olv39*	0.75	0.75	0.75	1.0	1.0
olv40*	0.75	0.75	0.75	1.0	1.0
olv41*	0.75	0.75	0.75	1.0	1.0
olv42*	0.75	0.75	0.75	1.0	1.0
olv43*	0.75	0.75	0.75	1.0	1.0
olv44*	0.75	0.75	0.75	1.0	1.0
olv45*	0.75	0.75	0.75	1.0	1.0
olv46*	0.75	0.75	0.75	1.0	1.0
olv47*	0.75	0.75	0.75	1.0	1.0
olv48*	0.75	0.75	0.75	1.0	1.0
olv49*	0.75	0.75	0.75	1.0	1.0
olv50*	0.75	0.75	0.75	1.0	1.0
olv51*	0.75	0.75	0.75	1.0	1.0
olv52*	0.75	0.75	0.75	1.0	1.0
olv53*	0.75	0.75	0.75	1.0	1.0
olv54*	0.75	0.75	0.75	1.0	1.0
olv55*	0.75	0.75	0.75	1.0	1.0
olv56*	0.75	0.75	0.75	1.0	1.0
olv57*	0.75	0.75	0.75	1.0	1.0
olv58*	0.75	0.75	0.75	1.0	1.0
olv59*	0.75	0.75	0.75	1.0	1.0
olv60*	0.75	0.75	0.75	1.0	1.0
olv61*	0.75	0.75	0.75	1.0	1.0
olv62*	0.75	0.75	0.75	1.0	1.0
olv63*	0.75	0.75	0.75	1.0	1.0
olv64*	0.75	0.75	0.75	1.0	1.0
olv65*	0.75	0.75	0.75	1.0	1.0
olv66*	0.75	0.75	0.75	1.0	1.0
olv67*	0.75	0.75	0.75	1.0	1.0
olv68*	0.75	0.75	0.75	1.0	1.0
olv69*	0.75	0.75	0.75	1.0	1.0
olv70*	0.75	0.75	0.75	1.0	1.0
olv71*	0.75	0.75	0.75	1.0	1.0
olv72*	0.75	0.75	0.75	1.0	1.0
olv73*	0.75	0.75	0.75	1.0	1.0
olv74*	0.75	0.75	0.75	1.0	1.0
olv75*	0.75	0.75	0.75	1.0	1.0
olv76*	0.75	0.75	0.75	1.0	1.0
olv77*	0.75	0.75	0.75	1.0	1.0
olv78*	0.75	0.75	0.75	1.0	1.0
olv79*	0.75	0.75	0.75	1.0	1.0
olv80*	0.75	0.75	0.75	1.0	1.0
olv81*	0.75	0.75	0.75	1.0	1.0
olv82*	0.75	0.75	0.75	1.0	1.0
olv83*	0.75	0.75	0.75	1.0	1.0
olv84*	0.75	0.75	0.75	1.0	1.0
olv85*	0.75	0.75	0.75	1.0	1.0
olv86*	0.75	0.75	0.75	1.0	1.0
olv87*	0.75	0.75	0.75	1.0	1.0
olv88*	0.75	0.75	0.75	1.0	1.0
olv89*	0.75	0.75	0.75	1.0	1.0
olv90*	0.75	0.75	0.75	1.0	1.0
olv91*	0.75	0.75	0.75	1.0	1.0
olv92*	0.75	0.75	0.75	1.0	1.0
olv93*	0.75	0.75	0.75	1.0	1.0
olv94*	0.75	0.75	0.75	1.0	1.0
olv95*	0.75	0.75	0.75	1.0	1.0
olv96*	0.75	0.75	0.75	1.0	1.0
olv97*	0.75	0.75	0.75	1.0	1.0
olv98*	0.75	0.75	0.75	1.0	1

Input: Colorimetric Television Luminous System TLS18

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

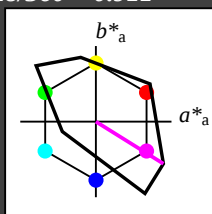
lab^*tch and lab^*nch

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^*_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)	
olv3*	0.0	0.0	0.0	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
olv4*	0.0	0.0	0.0	(0.0)	
olv4*	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*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)					
olv3*	1.0	0.75	1.0	(1.0)	
olv3*	0.0	0.75	1.0	(1.0)	
olv4*	1.0	0.75	1.0	(1.0)	
olv4*	0.0	0.75	1.0	(1.0)	
olv4*	0.0	0.75	1.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	86.31	22.32	-13.9		
LAB*LAB	86.31	22.32	-13.9		
LAB*LAB	86.31	22.32	-13.9		
relative CIELAB lab*					
lab*lab	0.882	0.125	-0.177		
lab*lab	0.882	0.125	-0.177		
lab*lab	0.882	0.125	-0.177		
relative Natural Colour (NC)					
lab*trj	0.882	0.125	-0.177		
lab*trj	0.882	0.125	-0.177		
lab*trj	0.882	0.125	-0.177		

relative Inform. Technology (IT)					
olv3*	1.0	0.5	1.0	(1.0)	
olv3*	0.0	0.5	1.0	(1.0)	
olv4*	1.0	0.5	1.0	(1.0)	
olv4*	0.0	0.5	1.0	(1.0)	
olv4*	0.0	0.5	1.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	77.21	44.66	-27.82		
LAB*LAB	77.21	44.66	-27.82		
LAB*LAB	77.21	44.66	-27.82		
relative CIELAB lab*					
lab*lab	0.765	0.424	-0.263		
lab*lab	0.765	0.424	-0.263		
lab*lab	0.765	0.424	-0.263		
relative Natural Colour (NC)					
lab*trj	0.765	0.424	-0.263		
lab*trj	0.765	0.424	-0.263		
lab*trj	0.765	0.424	-0.263		

relative Inform. Technology (IT)					
olv3*	1.0	0.25	1.0	(1.0)	
olv3*	0.0	0.25	1.0	(1.0)	
olv4*	1.0	0.25	1.0	(1.0)	
olv4*	0.0	0.25	1.0	(1.0)	
olv4*	0.0	0.25	1.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	68.11	66.99	-41.74		
LAB*LAB	68.11	66.99	-41.74		
LAB*LAB	68.11	66.99	-41.74		
relative CIELAB lab*					
lab*lab	0.647	0.526	-0.533		
lab*lab	0.647	0.526	-0.533		
lab*lab	0.647	0.526	-0.533		
relative Natural Colour (NC)					
lab*trj	0.647	0.526	-0.533		
lab*trj	0.647	0.526	-0.533		
lab*trj	0.647	0.526	-0.533		

relative Inform. Technology (IT)					
olv3*	1.0	0.0	1.0	(1.0)	
olv3*	0.0	0.0	1.0	(1.0)	
olv4*	1.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	59.01	89.31	-55.66		
LAB*LAB	59.01	89.31	-55.66		
LAB*LAB	59.01	89.31	-55.66		
relative CIELAB lab*					
lab*lab	0.53	0.848	-0.528		
lab*lab	0.53	0.848	-0.528		
lab*lab	0.53	0.848	-0.528		
relative Natural Colour (NC)					
lab*trj	0.53	0.848	-0.528		
lab*trj	0.53	0.848	-0.528		
lab*trj	0.53	0.848	-0.528		

relative Inform. Technology (IT)					
olv3*	1.0	0.0	1.0	(1.0)	
olv3*	0.0	0.0	1.0	(1.0)	
olv4*	1.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	47.61	22.33	-13.91		
LAB*LAB	47.61	22.33	-13.91		
LAB*LAB	47.61	22.33	-13.91		
relative CIELAB lab*					
lab*lab	0.515	0.351	-0.355		
lab*lab	0.515	0.351	-0.355		
lab*lab	0.515	0.351	-0.355		
relative Natural Colour (NC)					
lab*trj	0.515	0.351	-0.355		
lab*trj	0.515	0.351	-0.355		
lab*trj	0.515	0.351	-0.355		

relative Inform. Technology (IT)					
olv3*	1.0	0.0	1.0	(1.0)	
olv3*	0.0	0.0	1.0	(1.0)	
olv4*	1.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	37.51	78.94	328.06		
LAB*LAB	37.51	78.94	328.06		
LAB*LAB	37.51	78.94	328.06		
relative CIELAB lab*					
lab*lab	0.397	0.636	-0.396		
lab*lab	0.397	0.636	-0.396		
lab*lab	0.397	0.636	-0.396		
relative Natural Colour (NC)					
lab*trj	0.397	0.636	-0.396		
lab*trj	0.397	0.636	-0.396		
lab*trj	0.397	0.636	-0.396		

relative Inform. Technology (IT)					
olv3*	1.0	0.0	1.0	(1.0)	
olv3*	0.0	0.0	1.0	(1.0)	
olv4*	1.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
standard and adapted CIELAB					
LAB*LAB	28.26	22.32	-13.9		
LAB*LAB	28.26	22.32	-13.9		
LAB*LAB	28.26	22.32	-13.9		
relative CIELAB lab*					
lab*lab	0.286	0.25	-0.25		
lab*lab	0.286	0.25	-0.25		
lab*lab	0.286	0.25	-0.25		
relative Natural Colour (NC)					
lab*trj	0.286	0.25	-0.25		
lab*trj	0.286	0.25	-0.25		
lab*trj	0.286	0.25	-0.25		

relative Inform. Technology (IT)					
olv3*	1.0	0.0	1.0	(1.0)	
olv3*	0.0	0.0	1.0	(1.0)	
olv4*	1.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
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	0.212	-0.131		
lab*lab	0.132	0.212	-0.131		
lab*lab	0.132	0.212	-0.131		
relative Natural Colour (NC)					
lab*trj	0.132	0.212	-0.131		
lab*trj	0.132	0.212	-0.131		
lab*trj	0.132	0.212	-0.131		

relative Inform. Technology (IT)					
olv3*	1.0	0.0	1.0	(1.0)	
olv3*	0.0	0.0	1.0	(1.0)	
olv4*	1.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
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	0.212	-0.131		
lab*lab	0.132	0.212	-0.131		
lab*lab	0.132	0.212	-0.131		
relative Natural Colour (NC)					
lab*trj	0.132	0.212	-0.131		
lab*trj	0.132	0.212	-0.131		
lab*trj	0.132	0.212	-0.131		

relative Inform. Technology (IT)					
olv3*	1.0	0.0	1.0	(1.0)	
olv3*	0.0	0.0	1.0	(1.0)	
olv4*	1.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
olv4*	0.0	0.0	1.0	(1.0)	
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	0.212	-0.131		
lab*lab	0.132	0.212	-0.131		
lab*lab	0.132	0.212	-0.131		
relative Natural Colour (NC)					
lab*trj	0.132	0.212	-0.131		
lab*trj	0.132	0.212	-0.131		
lab*trj	0.132	0.212	-0.131		

NE59-7, 5 step scales for constant CIELAB hue 328/360 = 0.911 (left)

5 step scales for constant CIELAB hue 328/360 = 0.911 (right)

BAM-test chart NE59; Colorimetric systems TLS18 & TLS18

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

input: $olv^*setrgbcolor$

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

	L	V
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C M Y O L V

A horizontal line is shown with four segments of different colors: red, black, green, and black. The green segment is the longest and is labeled with a capital letter 'L' above it.

Input: Colorimetric Television Luminous System TLS18

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

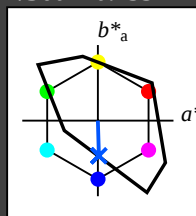
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 65 48 272

olv*Ma: 0.0 0.58 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 118$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	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)
olv5*	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 Inform. Technology (IT)

olv3*	0.75	0.895	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.75	0.895	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.75	0.895	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.52	0.35	-11.85
LAB*LAB	87.52	0.35	-11.85
LAB*LAB	87.52	0.35	-11.85

relative Inform. Technology (IT)

olv3*	0.5	0.79	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.5	0.79	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.5	0.79	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	80.44	0.71	-23.73
LAB*LAB	80.44	0.71	-23.73
LAB*LAB	80.44	0.71	-23.73

relative Inform. Technology (IT)

olv3*	0.25	0.54	0.75	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.25	0.54	0.75	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.25	0.54	0.75	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	68.57	0.36	-11.86
LAB*LAB	68.57	0.36	-11.86
LAB*LAB	68.57	0.36	-11.86

relative Inform. Technology (IT)

olv3*	0.0	0.25	0.5	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.25	0.5	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.25	0.5	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	61.09	0.72	-23.74
LAB*LAB	61.09	0.72	-23.74
LAB*LAB	61.09	0.72	-23.74

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.25	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.25	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.25	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	50.0	23.76	271.74
LAB*LAB	50.0	23.76	271.74
LAB*LAB	50.0	23.76	271.74

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	41.74	0.72	-23.74
LAB*LAB	41.74	0.72	-23.74
LAB*LAB	41.74	0.72	-23.74

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	25.01	23.76	271.75
LAB*LAB	25.01	23.76	271.75
LAB*LAB	25.01	23.76	271.75

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv5*	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 Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.01	0.01	0.01
LAB*LAB	0.01	0.01	0.01
LAB*LAB	0.01	0.01	0.01

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Television Luminous System TLS18

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

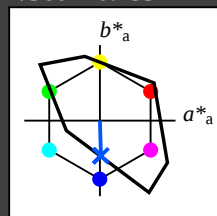
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 65 48 272

olv*Ma: 0.0 0.58 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 118$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	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)
olv5*	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 Inform. Technology (IT)

olv3*	0.75	0.895	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.75	0.895	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.75	0.895	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.52	0.35	-11.85
LAB*LAB	87.52	0.35	-11.85
LAB*LAB	87.52	0.35	-11.85

relative Inform. Technology (IT)

olv3*	0.5	0.79	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.5	0.79	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.5	0.79	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	80.44	0.71	-23.73
LAB*LAB	80.44	0.71	-23.73
LAB*LAB	80.44	0.71	-23.73

relative Inform. Technology (IT)

olv3*	0.25	0.54	0.75	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.25	0.54	0.75	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.25	0.54	0.75	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	68.57	0.36	-11.86
LAB*LAB	68.57	0.36	-11.86
LAB*LAB	68.57	0.36	-11.86

relative Inform. Technology (IT)

olv3*	0.0	0.25	0.5	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.25	0.5	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.25	0.5	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	61.09	0.72	-23.74
LAB*LAB	61.09	0.72	-23.74
LAB*LAB	61.09	0.72	-23.74

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.25	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.25	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.25	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	50.0	23.76	271.74
LAB*LAB	50.0	23.76	271.74
LAB*LAB	50.0	23.76	271.74

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	41.74	0.72	-23.74
LAB*LAB	41.74	0.72	-23.74
LAB*LAB	41.74	0.72	-23.74

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

NE59-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

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

BAM-test chart NE59; Colorimetric systems TLS18 & TLS18

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

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

output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$