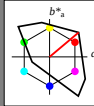


Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$
lab^{*}tch and lab^{*}nch

D65: hue O
LCH^{*}Ma: 51 100 40
ol^vMa: 1.0 0.0 0.0

triangle lightness l^*



%Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

TLS00; adapted (a) CIELAB data

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

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

%Regularity

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

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

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

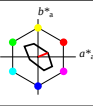
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 22/360 = 0.061$
lab^{*}tch and lab^{*}nch

D65: hue O
LCH^{*}Ma: 76 28 22
ol^vMa: 1.0 0.0 0.0

triangle lightness l^*



%Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

TLS70; adapted (a) CIELAB data

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

Q _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	82.66	-35.8	27.64	45.24	142
C _{Ma}	80.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative Inform. Technology (IT)
ol^vMa: 1.0 0.0 0.0
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

relative CIE LAB lab^{*}
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0
relative Natural Colour (NC)
lab^{*}tch: 1.0 0.0 0.0
lab^{*}nch: 1.0 0.0 0.0

standard and adapted CIE LAB
LAP^{*}Ma: 0.0 0.0 0.0
LAP^{*}tch: 0.0 0.0 0.0
LAP^{*}nch: 0.0 0.0 0.0

NE530-7, 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

5 step scales for constant CIELAB hue 22/360 = 0.061 (right)

BAM-test chart NE53; Colorimetric systems TLS00 & TLS70
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: `olw* setrgbcolor`
output: `olv* setrgbcolor / w* setgray`