

Input: Colorimetric Natural Reflective System CNS18

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

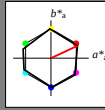
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 100$

%Regularity

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

$g^*_{C,rel} = 100$

CNS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
GMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50BMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
ICIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

Output: Colorimetric Television Luminous System TLS00

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

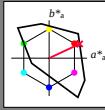
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.22

triangle lightness t^*



%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	50.5	76.92	64.55	100.42	40
YMa	92.66	-20.69	90.75	93.08	103
YMa	83.63	-82.75	79.9	115.04	136
YMa	86.88	-46.16	-13.55	48.12	196
VMa	30.39	76.06	-103.59	128.52	306
MMa	57.3	94.35	-58.41	110.97	328
NMa	0.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
ICIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 1.0 1.0 1.0 (1.0)
 $cmyn3^* = 0.0$ 0.0 0.0 0.0 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 1.0 1.0
 $cmyn4^* = 0.0$ 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 0.0
 $lab^*tch = 1.0$ 0.0 - -
 $lab^*nch = 0.0$ 0.0 - -

relative Natural Colour (NC)
 $lab^*lrj = 1.0$ 0.0 0.0
 $lab^*tce = 1.0$ 0.0 - -
 $lab^*nce = 0.0$ 0.0 - -

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 0.5 0.5 0.5 (1.0)
 $cmyn3^* = 0.0$ 0.5 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 1.0 0.5
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 0.5

standard and adapted CIELAB
 $LAB^*LAB = 47.72$ 0.0 0.0
 $LAB^*LABa = 47.72$ 0.0 0.0
 $LAB^*TCha = 50.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 0.0
 $lab^*tch = 0.5$ 0.0 - -
 $lab^*nch = 0.0$ 0.0 - -

relative Natural Colour (NC)
 $lab^*lrj = 0.5$ 0.0 0.0
 $lab^*tce = 0.5$ 0.0 - -
 $lab^*nce = 0.0$ 0.0 - -

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.5 0.5 0.5 (1.0)
 $cmyn3^* = 0.5$ 0.5 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 1.0 1.0
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 1.0

standard and adapted CIELAB
 $LAB^*LAB = 26.0$ 0.0 0.0
 $LAB^*LABa = 26.0$ 0.0 0.0
 $LAB^*TCha = 25.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.272$ 0.453 0.211
 $lab^*tch = 0.25$ 0.5 0.069
 $lab^*nch = 0.0$ 0.0 0.069

relative Natural Colour (NC)
 $lab^*lrj = 0.272$ 0.5 -0.002
 $lab^*tce = 0.25$ 0.5 0.999
 $lab^*nce = 0.0$ 0.5 0.999

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.5 0.5 0.5 (1.0)
 $cmyn3^* = 0.5$ 0.5 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 1.0 1.0
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 1.0

standard and adapted CIELAB
 $LAB^*LAB = 0.03$ 0.0 0.0
 $LAB^*LABa = 0.03$ 0.0 0.0
 $LAB^*TCha = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 0.0
 $lab^*tch = 0.0$ 0.0 - -
 $lab^*nch = 1.0$ 0.0 - -

relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0 0.0
 $lab^*tce = 0.0$ 0.0 - -
 $lab^*nce = 1.0$ 0.0 - -

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 0.5 0.5 0.5 (1.0)
 $cmyn3^* = 0.0$ 0.5 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 1.0 0.5
 $cmyn4^* = 0.0$ 0.5 0.5 0.5 0.0

standard and adapted CIELAB
 $LAB^*LAB = 73.69$ 40.36 18.82
 $LAB^*LABa = 73.69$ 40.36 18.82
 $LAB^*TCha = 75.0$ 44.53 25.0

relative CIELAB lab*
 $lab^*lab = 0.772$ 0.453 0.211
 $lab^*tch = 0.75$ 0.5 0.069
 $lab^*nch = 0.0$ 0.5 0.069

relative Natural Colour (NC)
 $lab^*lrj = 0.772$ 0.5 -0.002
 $lab^*tce = 0.75$ 0.5 0.999
 $lab^*nce = 0.0$ 0.5 0.999

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.0 0.0 0.0 (1.0)
 $cmyn3^* = 0.5$ 0.0 0.0 0.0 (0.0)
 $olv4^* = 1.0$ 0.5 0.5 0.5 0.5
 $cmyn4^* = 0.0$ 0.5 0.5 0.5 0.5

standard and adapted CIELAB
 $LAB^*LAB = 51.99$ 80.72 37.65
 $LAB^*LABa = 51.99$ 80.72 37.65
 $LAB^*TCha = 50.0$ 89.06 25.0

relative CIELAB lab*
 $lab^*lab = 0.545$ 0.906 0.423
 $lab^*tch = 0.5$ 1.0 0.069
 $lab^*nch = 0.0$ 1.0 0.069

relative Natural Colour (NC)
 $lab^*lrj = 0.545$ 1.0 -0.006
 $lab^*tce = 0.5$ 1.0 0.999
 $lab^*nce = 0.0$ 1.0 0.999

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.0 0.0 0.0 (1.0)
 $cmyn3^* = 0.5$ 0.0 0.0 0.0 (0.0)
 $olv4^* = 1.0$ 0.5 0.5 0.5 0.5
 $cmyn4^* = 0.0$ 0.5 0.5 0.5 0.5

standard and adapted CIELAB
 $LAB^*LAB = 26.0$ 0.0 0.0
 $LAB^*LABa = 26.0$ 0.0 0.0
 $LAB^*TCha = 25.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.272$ 0.453 0.211
 $lab^*tch = 0.25$ 0.5 0.069
 $lab^*nch = 0.0$ 0.0 0.069

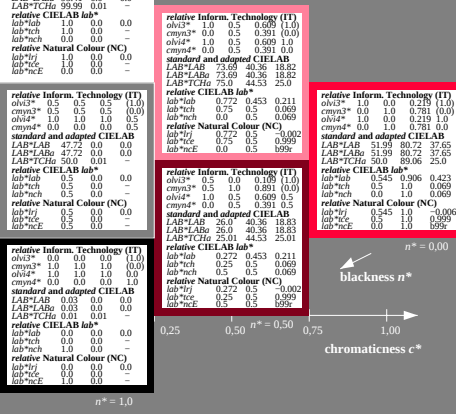
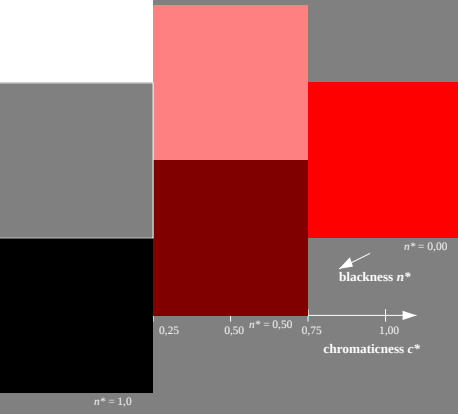
relative Natural Colour (NC)
 $lab^*lrj = 0.272$ 0.5 -0.002
 $lab^*tce = 0.25$ 0.5 0.999
 $lab^*nce = 0.0$ 0.5 0.999

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.5 0.5 0.5 (1.0)
 $cmyn3^* = 0.5$ 0.5 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 1.0 1.0
 $cmyn4^* = 0.0$ 0.0 0.0 0.0 1.0

standard and adapted CIELAB
 $LAB^*LAB = 0.03$ 0.0 0.0
 $LAB^*LABa = 0.03$ 0.0 0.0
 $LAB^*TCha = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 0.0
 $lab^*tch = 0.0$ 0.0 - -
 $lab^*nch = 1.0$ 0.0 - -

relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0 0.0
 $lab^*tce = 0.0$ 0.0 - -
 $lab^*nce = 1.0$ 0.0 - -



VE50-7, 3 step scales for constant CIELAB hue 25/360 = 0.069 (left)

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

BAM-test chart VE50; Colorimetric systems CNS18 & TLS00
D65: 3 step colour scales and coordinate data for 10 hues

input: olv* setrgbcolor
output: no change compared to input