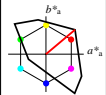


See for similar files: <http://www.ps.bam.de/NE15/>
 Technical information: <http://www.ps.bam.de/Version 2.1, io=1.1, CIELAB>

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
 olv*Ma: 1.0 0.0 0.0

triangle lightness l^*

TLS00; adapted (a) CIELAB data

| | L^* | a^* | b^* | C^*_{ab} | h^*_{ab} |
|------------------|-------|--------|---------|------------|------------|
| 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 | 300 |
| M _{Ma} | 57.3 | 94.35 | -58.41 | 110.97 | 328 |
| N _{Ma} | 0.0 | 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 | -2.28 | 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 |

% Gamut
 $u^*_{rel} = 158$
 % Regularity
 $g^*_{Hrel} = 20$
 $g^*_{Crel} = 37$

relative Inform. Technology (IT)
 $olv^*_{10} = 1.0$ 1.0 1.0 (1.0)
 $cmv^*_{20} = 0.0$ 0.0 0.0 (0.0)
 $olv^*_{40} = 1.0$ 1.0 1.0 1.0
 $cmv^*_{40} = 0.0$ 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*TC_Ha 99.99 0.01 -

relative CIELAB lab*
 lab^*lab 1.0 0.5 0.5 0.0
 lab^*tch 1.0 0.0 -

relative Natural Colour (NC)
 lab^*l^*rj 1.0 0.0 0.0
 lab^*t^*c 1.0 0.0 -

standard and adapted CIELAB
 LAB*LAB 47.72 0.0 0.0
 LAB*LABa 47.72 0.0 0.0
 LAB*TC_Ha 50.0 0.01 -

relative CIELAB lab*
 lab^*lab 0.5 0.0 0.0
 lab^*tch 0.5 0.0 -

relative Natural Colour (NC)
 lab^*l^*rj 0.5 0.0 0.0
 lab^*t^*c 0.5 0.0 -

relative Inform. Technology (IT)
 $olv^*_{10} = 0.0$ 0.0 0.0 (1.0)
 $cmv^*_{20} = 1.0$ 1.0 1.0 (0.0)
 $olv^*_{40} = 1.0$ 1.0 1.0 1.0
 $cmv^*_{40} = 0.0$ 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 0.03 0.0 0.0
 LAB*LABa 0.03 0.0 0.0
 LAB*TC_Ha 0.01 0.01 -

relative Inform. Technology (IT)
 $olv^*_{10} = 1.0$ 0.5 0.5 (1.0)
 $cmv^*_{20} = 0.0$ 0.5 0.5 (0.0)
 $olv^*_{40} = 1.0$ 0.5 0.5 0.5
 $cmv^*_{40} = 0.0$ 0.5 0.5 0.0
 standard and adapted CIELAB
 LAB*LAB 72.95 38.45 32.27
 LAB*LABa 72.95 38.45 32.27
 LAB*TC_Ha 75.0 50.2 40.0

relative CIELAB lab*
 lab^*lab 0.765 0.383 0.321
 lab^*tch 0.75 0.5 0.111
 lab^*nch 0.0 0.5 0.111

relative Natural Colour (NC)
 lab^*l^*rj 0.765 0.471 0.167
 lab^*t^*c 0.75 0.5 0.054
 lab^*n^*c 0.0 0.5 0.21

relative Inform. Technology (IT)
 $olv^*_{10} = 0.5$ 0.0 0.0 (1.0)
 $cmv^*_{20} = 0.5$ 1.0 1.0 (0.0)
 $olv^*_{40} = 1.0$ 0.5 0.5 0.5
 $cmv^*_{40} = 0.0$ 0.5 0.5 0.5
 standard and adapted CIELAB
 LAB*LAB 25.29 38.45 32.27
 LAB*LABa 25.29 38.45 32.27
 LAB*TC_Ha 25.01 50.2 40.0

relative CIELAB lab*
 lab^*lab 0.265 0.383 0.321
 lab^*tch 0.25 0.5 0.111
 lab^*nch 0.0 0.5 0.111

relative Natural Colour (NC)
 lab^*l^*rj 0.265 0.471 0.167
 lab^*t^*c 0.25 0.5 0.054
 lab^*n^*c 0.5 0.5 0.21

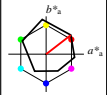
relative Inform. Technology (IT)
 $olv^*_{10} = 1.0$ 0.0 0.0 (1.0)
 $cmv^*_{20} = 0.5$ 0.5 0.5 (0.0)
 $olv^*_{40} = 1.0$ 0.0 1.0 0.5
 $cmv^*_{40} = 0.0$ 1.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 50.5 76.9 64.54
 LAB*LABa 50.5 76.9 64.54
 LAB*TC_Ha 50.0 100.4 40.0

relative CIELAB lab*
 lab^*lab 0.529 0.766 0.643
 lab^*tch 0.5 1.0 0.111
 lab^*nch 0.0 1.0 0.111

relative Natural Colour (NC)
 lab^*l^*rj 0.529 0.942 0.335
 lab^*t^*c 0.5 1.0 0.054
 lab^*n^*c 0.0 1.0 0.21

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$
 lab^*tch and lab^*nch



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

triangle lightness l^*

ORS18; adapted (a) CIELAB data

| | L^* | a^* | b^* | C^*_{ab} | h^*_{ab} |
|------------------|-------|--------|--------|------------|------------|
| 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} | 0.0 | 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 |

% Gamut
 $u^*_{rel} = 93$
 % Regularity
 $g^*_{Hrel} = 57$
 $g^*_{Crel} = 59$

relative Inform. Technology (IT)
 $olv^*_{10} = 1.0$ 1.0 1.0 (1.0)
 $cmv^*_{20} = 0.0$ 0.0 0.0 (0.0)
 $olv^*_{40} = 1.0$ 1.0 1.0 1.0
 $cmv^*_{40} = 0.0$ 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*TC_Ha 99.99 0.01 -

relative CIELAB lab*
 lab^*lab 1.0 0.0 0.0
 lab^*tch 1.0 0.0 -

relative Natural Colour (NC)
 lab^*l^*rj 1.0 0.0 0.0
 lab^*t^*c 1.0 0.0 -

standard and adapted CIELAB
 LAB*LAB 71.67 32.15 28.41
 LAB*LABa 71.67 32.69 25.25
 LAB*TC_Ha 75.0 41.31 37.69

relative CIELAB lab*
 lab^*lab 0.693 0.396 0.306
 lab^*tch 0.75 0.5 0.105
 lab^*nch 0.0 0.5 0.105

relative Inform. Technology (IT)
 $olv^*_{10} = 1.0$ 0.5 0.5 (1.0)
 $cmv^*_{20} = 0.5$ 0.5 0.5 (0.0)
 $olv^*_{40} = 1.0$ 1.0 1.0 0.5
 $cmv^*_{40} = 0.0$ 1.0 1.0 0.5
 standard and adapted CIELAB
 LAB*LAB 56.71 -24.21 21.4
 LAB*LABa 56.71 0.0 0.0
 LAB*TC_Ha 50.0 0.0 0.0

relative CIELAB lab*
 lab^*lab 0.5 0.0 0.0
 lab^*tch 0.5 0.0 -

relative Inform. Technology (IT)
 $olv^*_{10} = 1.0$ 0.5 0.5 (1.0)
 $cmv^*_{20} = 0.0$ 0.5 0.5 (0.0)
 $olv^*_{40} = 1.0$ 0.0 0.0 1.0
 $cmv^*_{40} = 0.0$ 1.0 1.0 0.0
 standard and adapted CIELAB
 LAB*LAB 47.94 65.3 52.06
 LAB*LABa 47.94 65.37 50.51
 LAB*TC_Ha 50.0 82.61 37.69

relative CIELAB lab*
 lab^*lab 0.693 0.477 0.15
 lab^*tch 0.75 0.5 0.048
 lab^*nch 0.0 0.5 0.191

relative Inform. Technology (IT)
 $olv^*_{10} = 0.5$ 0.0 0.0 (1.0)
 $cmv^*_{20} = 0.5$ 1.0 1.0 (0.0)
 $olv^*_{40} = 1.0$ 0.5 0.5 0.5
 $cmv^*_{40} = 0.0$ 0.5 0.5 0.5
 standard and adapted CIELAB
 LAB*LAB 32.98 32.9 25.8
 LAB*LABa 32.98 32.69 25.25
 LAB*TC_Ha 25.01 41.31 37.69

relative CIELAB lab*
 lab^*lab 0.193 0.396 0.306
 lab^*tch 0.25 0.5 0.105
 lab^*nch 0.0 0.5 0.105

relative Natural Colour (NC)
 lab^*l^*rj 0.193 0.477 0.15
 lab^*t^*c 0.25 0.5 0.048
 lab^*n^*c 0.5 0.5 0.191

relative Inform. Technology (IT)
 $olv^*_{10} = 0.0$ 0.0 0.0 (1.0)
 $cmv^*_{20} = 1.0$ 1.0 1.0 (0.0)
 $olv^*_{40} = 1.0$ 1.0 1.0 1.0
 $cmv^*_{40} = 0.0$ 1.0 1.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.5 -0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*TC_Ha 0.01 0.01 0.0

relative Inform. Technology (IT)
 $olv^*_{10} = 1.0$ 0.0 0.0 (1.0)
 $cmv^*_{20} = 0.0$ 1.0 1.0 0.0
 $olv^*_{40} = 1.0$ 0.0 0.0 1.0
 $cmv^*_{40} = 0.0$ 1.0 1.0 0.0
 standard and adapted CIELAB
 LAB*LAB 0.387 0.791 0.611
 LAB*LABa 0.387 0.954 0.299
 LAB*TC_Ha 0.0 1.0 0.105

relative CIELAB lab*
 lab^*lab 0.387 0.791 0.611
 lab^*tch 0.5 1.0 0.105
 lab^*nch 0.0 1.0 0.105

relative Natural Colour (NC)
 lab^*l^*rj 0.387 0.954 0.299
 lab^*t^*c 0.5 1.0 0.048
 lab^*n^*c 0.0 1.0 0.191

relative Inform. Technology (IT)
 $olv^*_{10} = 0.0$ 0.0 0.0 (1.0)
 $cmv^*_{20} = 1.0$ 1.0 1.0 (0.0)
 $olv^*_{40} = 1.0$ 1.0 1.0 1.0
 $cmv^*_{40} = 0.0$ 1.0 1.0 1.0
 standard and adapted CIELAB
 LAB*LAB 0.0 0.0 0.0
 LAB*LABa 0.0 0.0 0.0
 LAB*TC_Ha 0.0 0.0 0.0

relative CIELAB lab*
 lab^*lab 0.0 0.0 0.0
 lab^*tch 0.0 0.0 -

relative Natural Colour (NC)
 lab^*l^*rj 0.0 0.0 0.0
 lab^*t^*c 0.0 0.0 -

NE150-7, 3 step scales for constant CIELAB hue 40/360 = 0.111 (left)

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

BAM test chart NE15; Colorimetric systems TLS00 & ORS18
 D65: 2 coordinate data of 3 step colour scales for 10 hues

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

BAM registration: 20060101-NE15/L15E00F1.PS/TXT
 application for evaluation and measurement of printer or monitor systems

BAM material: code=th4ta
 NE15: Form: 110 Size: 11 Page: 1
 Page count: 1