

Input: Colorimetric 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 t^*



%Gamut
 $u^*_{rel} = 93$
 %Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$

relative Inform. Technology (IT)
 olv13* 1.0 1.0 1.0 (1.0)
 cmy33* 0.0 0.0 0.0 (0.0)
 olv14* 1.0 1.0 1.0 (1.0)
 cmy34* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.97 4.75
 LAB*LAB0 95.41 0.0 0.0
 LAB*TChe 93.99 0.01 -

relative CIELAB lab*
 lab*lab 1.0 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*nce 1.0 0.0 -
 lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
 olv13* 0.5 0.5 0.5 (1.0)
 cmy33* 0.5 0.5 0.5 (0.0)
 olv14* 1.0 1.0 1.0 (0.5)
 cmy34* 0.0 0.0 0.0 (0.5)
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LAB0 56.71 0.0 0.0
 LAB*TChe 50.0 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 -
 lab*nch 0.5 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.5 0.0 0.0
 lab*nce 0.5 0.0 -
 lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
 olv13* 0.0 0.0 0.0 (1.0)
 cmy33* 1.0 1.0 1.0 (0.0)
 olv14* 1.0 1.0 1.0 (0.0)
 cmy34* 0.0 0.0 0.0 (1.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.5 -0.46
 LAB*LAB0 18.02 0.0 0.0
 LAB*TChe 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*tch 1.0 0.0 -
 lab*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 -
 lab*nce 1.0 0.0 -

$n^* = 1.0$

relative Inform. Technology (IT)
 olv13* 1.0 0.5 0.5 (1.0)
 cmy33* 0.0 0.5 0.5 (0.0)
 olv14* 1.0 0.5 0.5 (0.0)
 cmy34* 0.0 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 71.67 32.15 28.41
 LAB*LAB0 71.67 32.15 28.41
 LAB*TChe 75.0 41.3 37.7

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 Natural Colour (NC)
 lab*lrj 0.693 0.477 0.15
 lab*nce 0.75 0.5 0.048
 lab*nce 0.0 0.5 0.15

relative Inform. Technology (IT)
 olv13* 0.5 0.0 0.0 (1.0)
 cmy33* 0.5 0.0 0.0 (0.0)
 olv14* 1.0 0.5 0.5 (0.5)
 cmy34* 0.0 0.5 0.5 (0.5)
 standard and adapted CIELAB
 LAB*LAB 32.98 32.9 25.8
 LAB*LAB0 32.98 32.98 25.25
 LAB*TChe 25.01 41.3 37.7

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*lrj 0.193 0.477 0.15
 lab*nce 0.25 0.5 0.048
 lab*nce 0.0 0.5 0.15

relative Inform. Technology (IT)
 olv13* 1.0 0.0 0.0 (1.0)
 cmy33* 0.0 1.0 0.0 (0.0)
 olv14* 1.0 0.0 1.0 (0.0)
 cmy34* 0.0 0.0 1.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 47.95 65.29 52.06
 LAB*LAB0 47.95 65.36 50.51
 LAB*TChe 50.0 82.6 37.7

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*lrj 0.387 0.954 0.299
 lab*nce 0.5 1.0 0.048
 lab*nce 0.0 1.0 0.15

$n^* = 0.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$
 lab^*tch and lab^*nch

D65: hue R
 LCH*Ma: 50 77 30
 olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut
 $u^*_{rel} = 91$
 %Regularity
 $g^*_{H,rel} = 41$
 $g^*_{C,rel} = 52$

relative Inform. Technology (IT)
 olv13* 1.0 1.0 1.0 (1.0)
 cmy33* 0.0 0.0 0.0 (0.0)
 olv14* 1.0 1.0 1.0 (1.0)
 cmy34* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.97 4.75
 LAB*LAB0 95.41 0.0 0.0
 LAB*TChe 93.99 0.01 -

relative CIELAB lab*
 lab*lab 1.0 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*nce 1.0 0.0 -
 lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
 olv13* 0.5 0.5 0.5 (1.0)
 cmy33* 0.5 0.5 0.5 (0.0)
 olv14* 1.0 1.0 1.0 (0.5)
 cmy34* 0.0 0.0 0.0 (0.5)
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LAB0 56.71 0.0 0.0
 LAB*TChe 50.0 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 -
 lab*nch 0.5 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.5 0.0 0.0
 lab*nce 0.5 0.0 -
 lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
 olv13* 1.0 0.5 0.5 (1.0)
 cmy33* 0.0 0.5 0.5 (0.0)
 olv14* 1.0 0.5 0.5 (0.0)
 cmy34* 0.0 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 72.52 32.93 22.4
 LAB*LAB0 72.52 32.97 19.18
 LAB*TChe 75.0 38.58 29.82

relative CIELAB lab*
 lab*lab 0.704 0.434 0.249
 lab*tch 0.75 0.5 0.083
 lab*nch 0.0 0.5 0.083
 relative Natural Colour (NC)
 lab*lrj 0.704 0.496 0.06
 lab*nce 0.75 0.5 0.019
 lab*nce 0.0 0.5 0.071

relative Inform. Technology (IT)
 olv13* 0.5 0.0 0.0 (1.0)
 cmy33* 0.5 0.0 0.0 (0.0)
 olv14* 1.0 0.5 0.5 (0.5)
 cmy34* 0.0 0.5 0.5 (0.5)
 standard and adapted CIELAB
 LAB*LAB 33.82 33.67 19.79
 LAB*LAB0 33.82 33.47 19.18
 LAB*TChe 25.01 38.58 29.82

relative CIELAB lab*
 lab*lab 0.204 0.434 0.249
 lab*tch 0.25 0.5 0.083
 lab*nch 0.0 0.5 0.083
 relative Natural Colour (NC)
 lab*lrj 0.204 0.496 0.06
 lab*nce 0.25 0.5 0.019
 lab*nce 0.0 0.5 0.071

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

TE100-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)

3 step scales for constant CIELAB hue 30/360 = 0.083 (right)

BAM-test chart TE10; Colorimetric systems ORS18 & MRS18

D65: 2 coordinate data of 3 step colour scales for 10 hues

input: `olv* setrgbcolor`

output: `olv* setrgbcolor / w* setgray`