

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = \text{lab}^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olw*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

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

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

ORS18; adapted (a) CIELAB data

$L^* = L^*_a$ 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} 18.01 0.0 0.0 0.0 0

W_{Ma} 95.41 0.0 0.0 0.0 0

R_{CIE} 39.92 58.66 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

%Regularity

$g^*_{H,rel} = 57$

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

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = \text{lab}^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olw*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

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

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

ORS18; adapted (a) CIELAB data

$L^* = L^*_a$ 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} 18.01 0.0 0.0 0.0 0

W_{Ma} 95.41 0.0 0.0 0.0 0

R_{CIE} 39.92 58.66 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

%Regularity

$g^*_{H,rel} = 57$

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

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

NE440-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

BAM-test chart NE44; Colorimetric systems ORS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

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

input: `olw* setrgbcolor`

output: `olw* setrgbcolor / w* setgray`