

Input: Colorimetric Reflective System NRS11

for hue $h^* = \text{lab}^*h = 24/360 = 0.067$
 lab^*ch and lab^*nh

D65: hue R
LCH*Ma: 53 84 24
rgb*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

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

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

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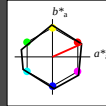
$n^* = 0.00$

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NRS11; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	C^*_{ab}	h^*_{ab}
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	109.9	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

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

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

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Output: Colorimetric Reflective System ORS18

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

D65: hue O
LCH*Ma: 48 83 38
rgb*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^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

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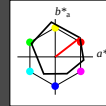
$n^* = 0.00$

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38/360 = 0.105

The diagram shows a hexagon with vertices labeled a^* , b^* , and a^* . The vertices are colored: top is yellow, top-right is red, bottom-right is green, bottom is blue, bottom-left is cyan, and top-left is magenta. A red line connects the top and top-right vertices. The text below the diagram indicates the color gamut is 38/360 = 0.105 and the color difference is $u^*_{rel} = 93$.

% Gamut

$u^*_{rel} = 93$

ORS18; adapted

$L^* = L^*_a$ a^*_a b^*_a

	L^*	a^*	b^*
O _{Ma}	47.94	65.37	50.52
Y _{Ma}	90.37	-10.27	91.77
L _{Ma}	50.9	-62.79	34.95
C _{Ma}	58.62	-30.35	-45.01
V _{Ma}	25.71	31.11	-44.42
M _{Ma}	48.13	75.27	-8.35
N _{Ma}	18.01	0.0	0.0
W _{Ma}	95.41	0.0	0.0
R _{CIE}	39.92	58.66	26.98
J _{CIE}	81.26	-2.17	67.76
G _{CIE}	52.23	-42.26	11.75
B _{CIE}	30.57	1.15	-46.84

%Regularity

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

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

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

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TE47/10S, 5 step scales for constant CIELAB hue 24/360 = 0.067 (left)

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

BAM-test chart TE47; Colorimetric systems NRS11 & ORS18
D65: 5 step colour scales and coordinate data for 10 hues

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