

Interpretation rgb -> oh* and CIE LAB data of a 48 step device hue circle

for a sRGB display with the luminance reflection $L_r=5\%$ compared to the white reference (100%)

48 step device hue circle with six device hues OYLVCVM: $h_{lab} = 31.9, 103.6, 137.6, 196.5, 302.7, 327.8$

Comparison with four elementary hues $R/JC: h_{lab} = 25.4, 92.3, 162.2, 271.7$

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
o00Y	54.8	66.8	41.6	78.7	31.9	1.00 0.00 0.00
a12y	55.7	64.4	42.6	77.2	33.5	1.00 0.12 0.00
a25y	57.8	58.5	40.6	73.8	37.5	1.00 0.25 0.00
a37y	61.4	49.2	48.8	69.3	44.7	1.00 0.37 0.00
a50y	66.2	37.1	53.8	62.4	53.3	1.00 0.50 0.00
a62y	71.9	22.4	57.7	61.1	62.0	1.00 0.62 0.00
a75y	78.4	9.2	62.6	66.8	82.2	1.00 0.75 0.00
a87y	85.4	-5.3	72.9	73.1	94.2	1.00 0.87 0.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
y00Y	92.8	-19.4	79.8	82.1	103.6	1.00 0.00 1.00
y12Y	90.7	-30.8	77.1	83.0	111.8	0.87 0.00 1.00
y25Y	88.9	-41.7	74.7	85.6	119.1	0.75 0.00 1.00
y37Y	87.4	-51.5	72.8	89.2	125.2	0.62 0.00 1.00
y50Y	86.3	-60.0	71.7	93.1	130.0	0.50 0.00 1.00
y62Y	85.4	-66.7	70.1	96.8	135.3	0.37 0.00 1.00
y75Y	84.8	-71.5	69.3	99.6	137.6	0.25 0.00 1.00
y87Y	84.5	-74.3	68.9	101.3	137.1	0.12 0.00 1.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
m00M	44.3	-75.4	68.7	102.0	137.6	1.00 0.00 1.00
m12c	84.4	-74.8	66.3	100.0	138.4	0.87 0.00 1.00
m25c	84.5	-73.4	60.6	95.2	140.4	0.62 0.00 1.00
m37c	84.7	-71.0	52.7	87.9	148.0	0.37 0.00 1.00
m50c	85.0	-67.5	40.6	78.8	149.3	0.12 0.00 1.00
m62c	85.4	-62.8	28.0	68.8	155.9	0.00 0.62 0.87
m75c	85.9	-57.8	14.7	58.9	165.5	0.00 0.50 0.75
m87c	86.6	-50.3	1.0	50.3	178.8	0.00 0.37 0.87

KE210N-3N, Page 8/11, LAB*la7, adapted-not adapted

Interpretation rgb -> oh* and CIE LAB data of a 48 step device hue circle

for a sRGB display with the luminance reflection $L_r=10\%$ compared to the white reference (100%)

48 step device hue circle with six device hues OYLVCVM: $h_{lab} = 28.4, 104.3, 138.6, 196.7, 300.3, 327.5$

Comparison with four elementary hues $R/JC: h_{lab} = 25.4, 92.3, 162.2, 271.7$

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
o00Y	58.7	58.4	37.1	66.5	28.4	1.00 0.00 0.00
a12y	59.5	56.4	32.6	62.5	30.0	1.00 0.12 0.00
a25y	61.3	51.6	34.9	62.3	34.6	1.00 0.25 0.00
a37y	64.3	43.8	38.6	58.4	41.4	1.00 0.37 0.00
a50y	68.5	33.4	43.7	55.0	52.6	1.00 0.50 0.00
a62y	73.7	21.3	49.7	54.1	66.7	1.00 0.62 0.00
a75y	79.6	8.3	56.4	57.0	81.6	1.00 0.75 0.00
a87y	86.1	-4.9	63.5	63.7	94.4	1.00 0.87 0.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
y00Y	92.9	-18.1	78.0	73.0	104.3	1.00 0.00 1.00
y12Y	91.1	-30.6	75.2	71.9	112.6	0.87 0.00 1.00
y25Y	89.3	-38.6	68.5	76.3	120.3	0.75 0.00 1.00
y37Y	87.9	-47.4	64.0	79.6	126.5	0.62 0.00 1.00
y50Y	86.9	-55.0	62.4	83.2	131.3	0.50 0.00 1.00
y62Y	86.0	-60.9	61.3	86.5	134.8	0.37 0.00 1.00
y75Y	85.1	-65.1	60.6	89.0	137.6	0.25 0.00 1.00
y87Y	85.2	-67.6	60.1	90.5	138.3	0.12 0.00 1.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
m00M	44.1	-68.6	60.0	91.1	138.8	0.00 0.62 1.00
m12c	85.1	-68.1	58.1	89.5	139.5	0.00 0.50 1.00
m25c	85.2	-66.9	53.5	85.7	141.3	0.00 0.37 1.00
m37c	85.4	-64.6	46.2	79.5	144.4	0.00 0.25 1.00
m50c	85.7	-61.6	36.7	71.7	149.2	0.00 0.12 0.87
m62c	86.1	-57.5	25.6	62.8	155.9	0.00 0.00 0.62
m75c	86.5	-52.3	13.5	54.0	165.4	0.00 0.00 0.25
m87c	87.2	-46.3	0.9	46.3	178.8	0.00 0.00 0.12

KE210N-7N, Page 9/11, LAB*la7, adapted-not adapted

Interpretation rgb -> oh* and CIE LAB data of a 48 step device hue circle

for a sRGB display with the luminance reflection $L_r=20\%$ compared to the white reference (100%)

48 step device hue circle with six device hues OYLVCVM: $h_{lab} = 24.9, 105.5, 140.4, 197.1, 297.2, 327.0$

Comparison with four elementary hues $R/JC: h_{lab} = 25.4, 92.3, 162.2, 271.7$

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
o00Y	65.3	45.0	28.9	48.7	24.9	1.00 0.00 0.00
a12y	66.0	41.6	21.7	42.7	26.4	1.00 0.12 0.00
a25y	67.4	40.3	23.5	46.6	30.3	1.00 0.25 0.00
a37y	69.7	34.6	26.6	48.7	37.5	1.00 0.37 0.00
a50y	73.0	26.8	30.9	41.0	49.0	1.00 0.50 0.00
a62y	77.4	17.1	36.3	40.3	64.2	1.00 0.62 0.00
a75y	81.9	6.9	42.4	40.3	80.7	1.00 0.75 0.00
a87y	87.4	-4.2	49.1	40.3	94.9	1.00 0.87 0.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
y00Y	93.2	-15.6	56.2	58.4	105.5	1.00 0.00 1.00
y12Y	91.6	-24.5	53.8	59.1	114.4	0.87 0.00 1.00
y25Y	90.1	-32.6	51.7	61.2	122.2	0.75 0.00 1.00
y37Y	89.0	-39.8	50.0	64.0	128.5	0.62 0.00 1.00
y50Y	88.0	-45.8	48.7	66.9	143.2	0.50 0.00 1.00
y62Y	87.3	-50.4	47.7	69.4	136.6	0.37 0.00 1.00
y75Y	86.9	-53.7	47.0	71.4	138.7	0.25 0.00 1.00
y87Y	86.6	-55.5	46.6	72.5	139.9	0.12 0.00 1.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
m00M	68.5	-56.3	46.5	73.0	140.4	0.00 0.62 1.00
m12c	86.5	-55.9	45.2	71.9	141.0	0.00 0.50 1.00
m25c	86.6	-55.0	42.1	69.3	142.5	0.00 0.37 1.00
m37c	86.8	-53.3	36.7	60.3	145.2	0.00 0.25 1.00
m50c	87.0	-50.9	29.8	50.9	149.6	0.00 0.12 0.87
m62c	87.3	-47.6	21.1	52.1	156.0	0.00 0.00 0.62
m75c	87.8	-43.6	11.3	45.0	165.3	0.00 0.00 0.25
m87c	88.3	-38.7	0.8	38.1	178.8	0.00 0.00 0.12

KE210N-3N, Page 10/11, LAB*la7, adapted-not adapted

Interpretation rgb -> oh* and CIE LAB data of a 48 step device hue circle

for a sRGB display with the luminance reflection $L_r=40\%$ compared to the white reference (100%)

48 step device hue circle with six device hues OYLVCVM: $h_{lab} = 21.9, 107.3, 142.3, 197.9, 293.8, 326.0$

Comparison with four elementary hues $R/JC: h_{lab} = 25.4, 92.3, 162.2, 271.7$

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
o00Y	76.4	26.2	10.5	28.3	21.9	1.00 0.00 0.00
a12y	76.7	25.5	10.0	27.8	23.2	1.00 0.12 0.00
a25y	77.7	24.8	10.7	27.8	25.4	1.00 0.25 0.00
a37y	78.8	20.8	13.9	25.0	33.7	1.00 0.37 0.00
a50y	80.7	16.5	16.6	23.4	45.1	1.00 0.50 0.00
a62y	83.2	11.0	20.1	22.9	61.2	1.00 0.62 0.00
a75y	86.3	4.5	24.3	24.7	78.4	1.00 0.75 0.00
a87y	90.8	-2.4	29.4	29.1	95.5	1.00 0.87 0.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
y00Y	93.9	-10.7	34.6	36.2	107.3	1.00 0.00 1.00
y12Y	92.7	-16.6	32.8	36.8	116.8	0.87 0.00 1.00
y25Y	91.7	-21.8	31.3	38.2	124.8	0.75 0.00 1.00
y37Y	90.9	-26.2	30.1	39.9	131.0	0.62 0.00 1.00
y50Y	90.3	-29.8	29.1	41.7	135.6	0.50 0.00 1.00
y62Y	89.8	-32.5	28.4	43.2	140.7	0.37 0.00 1.00
y75Y	89.5	-34.3	28.0	44.3	146.8	0.25 0.00 1.00
y87Y	89.3	-35.4	27.7	44.9	141.9	0.12 0.00 1.00

Code	L*	a*	b*	C* _{ab}	h _{lab}	rgb -> oh*
m00M	89.3	-35.8	27.6	45.2	142.3	0.00 0.62 1.00
m12c	89.3	-35.6	27.0	44.7	142.8	0.00 0.50 1.00
m25c	89.4	-35.0	25.4	43.3	144.0	0.00 0.37 1.00
m37c	89.5	-34.1	22.6	40.9	146.4	0.00 0.25 1.00
m50c	89.6	-32.7	16.6	37.6	158.2	0.00 0.12 0.87
m62c	89.8	-30.8	13.6	33.6	156.1	0.00 0.00 0.62
m75c	90.1	-28.8	7.5	29.3	165.1	0.00 0.00 0.25
m87c	90.5	-25.4	0.5	25.4	178.7	0.00 0.00 0.12

KE210N-7N, Page 11/11, LAB*la7, adapted-not adapted

TUB-test chart KE21; CIE data of sRGB display $L_r=5$ to 40%
input: w setgray
output: no change compared to input