

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a sRGB standard display with the luminance reflection $L_r=5\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYL\text{CVM}$: $h_{ab,a} = 31.9, 103.7, 137.6, 196.6, 302.8, 327.9$
comparison with four elementary hues $R\text{JGB}$: $h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and C^*M^* = 217.0, 328.6
9 step equidistant grey scale: $L^* = 26.8, 35.4, 44.0, 52.6, 61.1, 69.7, 78.3, 86.8, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{MaD}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{MaD}$	$rgb \rightarrow olv^*_{Ma}$
o00v=O	30.0	55.5 65.0 42.5	77.6 33.2 1.000 0.000 0.000	c00v=C	210.0	85.5 -62.7 27.8	68.6 156.1 0.000 1.000 1.000
o12y	36.6	55.7 64.5 42.6	77.3 33.5 1.000 0.125 0.000	c12v	216.6	83.3 -36.5 -19.8	41.7 208.6 0.000 0.875 1.000
o25y	43.9	56.7 61.8 43.8	75.8 33.5 1.000 0.250 0.000	c25v	223.9	52.6 22.9 -67.2	71.1 288.8 0.000 0.750 1.000
o37y	51.8	59.0 55.7 46.4	72.5 39.8 1.000 0.375 0.000	c37v	231.8	40.1 55.6 -87.3	103.6 302.4 0.000 0.625 1.000
o50y	60.0	64.2 42.3 52.1	67.1 50.9 1.000 0.500 0.000	c50v	240.0	40.9 58.4 -85.9	104.0 304.2 0.000 0.500 1.000
o62y	68.2	73.0 21.4 61.0	64.6 70.7 1.000 0.625 0.000	c62v	248.2	43.0 61.3 -82.4	102.8 306.6 0.000 0.375 1.000
o75y	76.1	84.0 -2.0 71.8	71.8 91.7 1.000 0.750 0.000	c75v	256.1	44.9 64.0 -79.2	101.9 308.9 0.000 0.250 1.000
o87y	83.4	92.4 -21.8 79.4	82.3 105.4 1.000 0.875 0.000	c87v	263.4	46.1 65.6 -77.2	101.4 310.3 0.000 0.125 1.000
y00l=Y	90.0	90.2 -34.0 76.6	83.8 114.4 1.000 1.000 0.000	v00m=V	270.0	46.6 66.4 -76.4	101.2 310.9 0.000 0.000 1.000
y12l	96.6	88.6 -43.9 74.5	86.5 120.6 0.875 1.000 0.000	v12m	276.6	46.8 66.6 -76.0	101.2 311.2 0.125 0.000 1.000
y25l	103.9	87.4 -52.1 72.8	89.5 126.6 0.750 1.000 0.000	v25m	283.9	47.4 67.4 -75.1	101.0 311.9 0.250 0.000 1.000
y37l	111.8	86.6 -58.0 71.7	92.3 129.0 0.625 1.000 0.000	v37m	291.8	48.3 68.6 -73.5	100.6 313.0 0.375 0.000 1.000
y50l	120.0	86.0 -62.1 71.0	94.4 131.2 0.500 1.000 0.000	v50m	300.0	49.8 70.6 -71.1	100.3 314.8 0.500 0.000 1.000
y62l	128.2	85.7 -64.7 70.5	95.8 132.6 0.375 1.000 0.000	v62m	308.2	51.7 73.1 -67.9	99.8 317.1 0.625 0.000 1.000
y75l	136.1	85.4 -66.5 70.2	96.8 133.5 0.250 1.000 0.000	v75m	316.1	54.2 76.4 -63.8	99.6 320.1 0.750 0.000 1.000
y87l	143.4	85.4 -67.2 70.1	97.2 133.9 0.125 1.000 0.000	v87m	323.4	57.0 80.0 -59.1	99.5 323.5 0.875 0.000 1.000
l00c=L	150.0	85.3 -67.5 70.0	97.4 134.0 0.000 1.000 0.000	m00o=M	330.0	60.2 84.1 -53.8	99.9 327.4 1.000 0.000 1.000
l12c	156.6	85.3 -68.0 70.0	97.6 134.2 0.000 1.000 0.125	m12o	336.6	59.6 81.7 -42.6	92.2 332.4 1.000 0.000 0.875
l25c	163.9	85.1 -69.1 69.8	98.3 134.7 0.000 1.000 0.250	m25o	343.9	58.2 77.5 -27.1	82.1 340.7 1.000 0.000 0.750
l37c	171.8	84.9 -71.0 69.5	99.4 135.6 0.000 1.000 0.375	m37o	351.8	56.8 73.3 -7.3	73.7 354.2 1.000 0.000 0.625
l50c	180.0	84.7 -72.8 69.2	100.5 136.5 0.000 1.000 0.500	m50o	360.0	55.7 69.8 14.6	71.3 11.8 1.000 0.000 0.500
l62c	188.2	84.5 -74.5 68.9	101.6 137.3 0.000 1.000 0.625	m62o	368.2	55.1 67.7 32.4	75.1 25.6 1.000 0.000 0.375
l75c	196.1	84.4 -75.1 67.6	101.1 138.0 0.000 1.000 0.750	m75o	376.1	54.9 67.0 40.5	78.2 31.1 1.000 0.000 0.250
l87c	203.4	84.6 -72.5 56.8	92.1 141.9 0.000 1.000 0.875	m87o	383.4	55.3 65.7 42.2	78.1 32.7 1.000 0.000 0.125

KE930-3N, 2

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a sRGB standard display with the luminance reflection $L_r=10\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYL\text{CVM}$: $h_{ab,a} = 28.5, 104.4, 138.8, 196.8, 300.4, 327.6$
comparison with four elementary hues $R\text{JGB}$: $h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and C^*M^* = 217.0, 328.6
9 step equidistant grey scale: $L^* = 38.0, 45.2, 52.3, 59.5, 66.7, 73.9, 81.1, 88.2, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{MaD}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{MaD}$	$rgb \rightarrow olv^*_{Ma}$
o00y=O	30.0	59.0 57.7 32.1	66.1 29.0 1.000 0.000 0.000	c00v=C	210.0	86.1 -57.2 25.0	62.5 156.5 0.000 1.000 1.000
o12y	36.6	59.2 57.4 32.2	65.8 29.3 1.000 0.125 0.000	c12v	216.6	83.5 -32.5 -19.4	38.0 210.9 0.000 0.875 1.000
o25y	43.9	59.6 56.3 32.7	65.2 30.2 1.000 0.250 0.000	c25v	223.9	56.5 20.3 -60.8	64.2 288.4 0.000 0.750 1.000
o37y	51.8	61.2 52.1 34.8	62.6 33.7 1.000 0.375 0.000	c37v	231.8	46.9 44.2 -76.0	88.0 300.1 0.000 0.625 1.000
o50y	60.0	65.4 41.3 40.2	57.6 44.2 1.000 0.500 0.000	c50v	240.0	47.5 46.7 -75.1	88.5 301.8 0.000 0.500 1.000
o62y	68.2	73.5 22.0 49.5	54.2 66.0 1.000 0.625 0.000	c62v	248.2	48.9 49.6 -72.8	88.1 304.2 0.000 0.375 1.000
o75y	76.1	84.3 -0.8 61.9	61.9 90.9 1.000 0.750 0.000	c75v	256.1	50.1 52.1 -70.7	87.9 306.4 0.000 0.250 1.000
o87y	83.4	92.5 -20.7 70.3	73.3 106.5 1.000 0.875 0.000	c87v	263.4	50.8 53.5 -69.5	87.8 307.6 0.000 0.125 1.000
y00l=Y	90.0	90.4 -32.4 67.5	74.9 115.7 1.000 1.000 0.000	v00m=V	270.0	51.1 54.1 -69.0	87.7 308.1 0.000 0.000 1.000
y12l	96.6	88.9 -41.6 65.4	77.5 122.5 0.875 1.000 0.000	v12m	276.6	51.3 54.5 -68.7	87.7 308.4 0.125 0.000 1.000
y25l	103.9	87.8 -49.0 63.8	80.4 127.6 0.750 1.000 0.000	v25m	283.9	51.8 55.4 -67.9	87.7 309.2 0.250 0.000 1.000
y37l	111.8	87.0 -54.3 62.6	83.0 131.0 0.625 1.000 0.000	v37m	291.8	52.6 57.0 -66.5	87.6 310.5 0.375 0.000 1.000
y50l	120.0	86.5 -57.7 62.0	84.8 133.0 0.500 1.000 0.000	v50m	300.0	53.8 59.2 -64.5	87.6 312.5 0.500 0.000 1.000
y62l	128.2	86.2 -60.1 61.6	86.1 134.4 0.375 1.000 0.000	v62m	308.2	55.6 62.3 -61.6	87.7 315.3 0.625 0.000 1.000
y75l	136.1	86.0 -61.4 61.3	86.8 135.1 0.250 1.000 0.000	v75m	316.1	57.7 66.1 -58.1	88.0 318.6 0.750 0.000 1.000
y87l	143.4	85.9 -62.0 61.2	87.2 135.4 0.125 1.000 0.000	v87m	323.4	60.3 70.4 -53.8	88.7 322.5 0.875 0.000 1.000
l00c=L	150.0	85.9 -62.2 61.2	87.3 135.5 0.000 1.000 0.000	m00o=M	330.0	63.2 75.1 -49.1	89.8 326.8 1.000 0.000 1.000
l12c	156.6	85.9 -62.6 61.1	87.5 135.7 0.000 1.000 0.125	m12o	336.6	62.8 73.1 -38.6	82.7 332.1 1.000 0.000 0.875
l25c	163.9	85.8 -63.4 60.9	88.0 136.2 0.000 1.000 0.250	m25o	343.9	61.6 68.8 -23.9	72.9 340.8 1.000 0.000 0.750
l37c	171.8	85.6 -65.0 60.8	88.9 137.0 0.000 1.000 0.375	m37o	351.8	60.4 64.7 -6.0	65.0 354.6 1.000 0.000 0.625
l50c	180.0	85.4 -66.3 60.4	89.8 137.7 0.000 1.000 0.500	m50o	360.0	59.5 61.3 11.9	62.4 10.9 1.000 0.000 0.500
l62c	188.2	85.2 -67.8 60.1	90.7 138.5 0.000 1.000 0.625	m62o	368.2	59.0 59.3 24.7	63.4 22.6 1.000 0.000 0.375
l75c	196.1	85.1 -68.3 59.1	90.4 139.2 0.000 1.000 0.750	m75o	376.1	58.8 58.6 30.2	66.0 27.3 1.000 0.000 0.250
l87c	203.4	85.3 -66.0 50.4	83.1 142.7 0.000 1.000 0.875	m87o	383.4	58.8 58.2 31.8	66.4 28.7 1.000 0.000 0.125

KE930-7N, 2

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a sRGB standard display with the luminance reflection $L_r=20\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYL\text{CVM}$: $h_{ab,a} = 25.0, 105.5, 140.5, 197.2, 297.3, 327.0$
comparison with four elementary hues $R\text{JGB}$: $h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and C^*M^* = 217.0, 328.6
9 step equidistant grey scale: $L^* = 52.0, 57.4, 62.9, 68.3, 73.7, 79.1, 84.6, 90.0, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{MaD}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{MaD}$	$rgb \rightarrow olv^*_{Ma}$
o00y=O	30.0	65.5 45.1 20.9	49.7 24.8 1.000 0.000 0.000	c00v=C	210.0	87.4 -47.3 20.0	51.4 157.1 0.000 1.000 1.000
o12y	36.6	65.6 44.9 21.1	49.6 25.1 1.000 0.125 0.000	c12v	216.6	84.2 -25.3 -17.9	31.1 215.3 0.000 0.875 1.000
o25y	43.9	65.8 44.3 21.4	49.2 25.8 1.000 0.250 0.000	c25v	223.9	63.4 16.1 -49.9	52.3 287.9 0.000 0.750 1.000
o37y	51.8	66.7 42.2 22.6	47.8 28.2 1.000 0.375 0.000	c37v	231.8	57.4 30.2 -59.0	66.4 297.1 0.000 0.625 1.000
o50y	60.0	69.3 35.7 26.2	44.2 36.3 1.000 0.500 0.000	c50v	240.0	57.6 32.0 -58.6	66.8 298.6 0.000 0.500 1.000
o62y	68.2	75.7 20.9 34.7	40.6 58.9 1.000 0.625 0.000	c62v	248.2	58.4 34.2 -57.3	66.8 300.8 0.000 0.375 1.000
o75y	76.1	85.3 0.5 46.9	46.9 89.4 1.000 0.750 0.000	c75v	256.1	59.0 35.9 -56.3	66.9 302.5 0.000 0.250 1.000
o87y	83.4	92.8 -18.2 55.7	58.6 108.2 1.000 0.875 0.000	c87v	263.4	59.4 37.1 -55.7	67.0 303.6 0.000 0.125 1.000
y00l=Y	90.0	90.9 -28.6 53.0	60.2 118.5 1.000 1.000 0.000	v00m=V	270.0	59.6 37.5 -55.4	67.0 304.0 0.000 0.000 1.000
y12l	96.6	89.6 -36.4 51.0	62.7 125.6 0.875 1.000 0.000	v12m	276.6	59.7 37.8 -55.2	67.0 304.3 0.125 0.000 1.000
y25l	103.9	88.6 -42.3 49.6	65.2 130.5 0.750 1.000 0.000	v25m	283.9	59.9 38.5 -54.8	67.1 305.1 0.250 0.000 1.000
y37l	111.8	88.0 -46.4 48.6	67.3 133.7 0.625 1.000 0.000	v37m	291.8	60.5 40.1 -53.9	67.2 306.6 0.375 0.000 1.000
y50l	120.0	87.6 -48.9 48.1	68.7 135.6 0.500 1.000 0.000	v50m	300.0	61.4 42.4 -52.4	67.5 308.9 0.500 0.000 1.000
y62l	128.2	87.4 -50.6 47.7	69.6 136.8 0.375 1.000 0.000	v62m	308.2	62.6 45.6 -50.4	68.0 312.1 0.625 0.000 1.000
y75l	136.1	87.2 -51.4 47.5	70.1 137.3 0.250 1.000 0.000	v75m	316.1	64.2 49.6 -47.7	68.9 316.1 0.750 0.000 1.000
y87l	143.4	87.2 -51.9 47.4	70.4 137.6 0.125 1.000 0.000	v87m	323.4	66.3 53.3 -44.4	70.0 320.7 0.875 0.000 1.000
l00c=L	150.0	87.1 -52.0 47.4	70.5 137.7 0.000 1.000 0.000	m00o=M	330.0	68.6 59.6 -40.6	72.2 325.7 1.000 0.000 1.000
l12c	156.6	87.1 -52.3 47.4	70.6 137.9 0.000 1.000 0.125	m12o	336.6	68.6 58.5 -31.5	66.5 331.6 1.000 0.000 0.875
l25c	163.9	87.0 -52.8 47.2	70.9 138.2 0.000 1.000 0.250	m25o	343.9	67.6 54.3 -18.5	57.4 341.0 1.000 0.000 0.750
l37c	171.8	86.9 -53.8 47.0	71.5 138.9 0.000 1.000 0.375	m37o	351.8	66.7 50.5 -4.2	50.7 355.1 1.000 0.000 0.625
l50c	180.0	86.6 -54.7 46.8	72.1 139.5 0.000 1.000 0.500	m50o	360.0	66.1 47.6 8.3	48.3 9.8 1.000 0.000 0.500
l62c	188.2	86.8 -55.7 46.6	72.7 140.1 0.000 1.000 0.625	m62o	368.2	65.7 45.9 16.3	48.7 19.5 1.000 0.000 0.375
l75c	196.1	86.6 -56.1 45.9	72.6 140.7 0.000 1.000 0.750	m75o	376.1	65.6 45.3 19.6	49.4 23.4 1.000 0.000 0.250
l87c	203.4	86.7 -54.3 39.9	67.4 143.7 0.000 1.000 0.875	m87o	383.4	65.5 45.2 20.5	49.6 24.4 1.000 0.000 0.125

KE931-3N, 2

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a sRGB standard display with the luminance reflection $L_r=40\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYL\text{CVM}$: $h_{ab,a} = 21.9, 107.3, 142.4, 197.9, 293.8, 326.1$
comparison with four elementary hues $R\text{JGB}$: $h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and C^*M^* = 217.0, 328.6