Interpretation *rgb* −> *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 *OYLCVM*: $h_{ab,a}$ = 31.9, 103.7, 137.6, 196.6, 302.8, 327.9
comparison with four elementary hues *RJGB*: $h_{ab,a}$ = 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}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			
o00y=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	C'
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	35.3	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	B
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	J
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	114.0	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	125.6	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	M'
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	G
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	R

KE930−3X, 2

Interpretation *rgb* −> *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 *OYLCVM*: $h_{ab,a}$ = 25.0, 105.5, 140.5, 197.2, 297.3, 327.0
comparison with four elementary hues *RJGB*: $h_{ab,a}$ = 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}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> 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	C'
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	−49.6	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	B
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	J
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	54.3	−44.4	70.2	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	M'
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	86.8	−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	86.6	−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	G
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	R

KE931−3X, 2

Interpretation *rgb* −> *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 *OYLCVM*: $h_{ab,a}$ = 28.5, 104.4, 138.8, 196.8, 300.4, 327.6
comparison with four elementary hues *RJGB*: $h_{ab,a}$ = 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}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> 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	C'
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	B
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	J
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	M'
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	60.6	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	64.3	22.6	1.000	0.000	0.375	G
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	R

KE930−7X, 2

Interpretation *rgb* −> *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 *OYLCVM*: $h_{ab,a}$ = 21.9, 107.3, 142.4, 197.9, 293.8, 326.1
comparison with four elementary hues *RJGB*: $h_{ab,a}$ = 25.5, 92.3, 162.2, 271.7, and *C' M'* = 217.0, 328.6
9 step equidistant grey scale: *L = 69.7, 72.9, 76.1, 79.3, 82.6, 85.8, 89.0, 92.2, 95.4**

d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			
o00y=O	30.0	76.4	26.4	10.2	28.3	21.2	1.000	0.000	0.000	c00v=C	210.0	89.9	−30.3	12.2	32.8	158.1	0.000	1.000	1.000	C'
o12y	36.6	76.4	26.3	10.4	28.3	21.5	1.000	0.125	0.000	c12v	216.6	86.7	−14.1	−13.3	19.5	223.3	0.000	0.875	1.000	
o25y	43.9	76.5	26.2	10.6	28.2	22.1	1.000	0.250	0.000	c25v	223.9	74.8	9.8	−31.3	32.9	287.3	0.000	0.750	1.000	
o37y	51.8	76.7	25.6	11.0	27.8	23.2	1.000	0.375	0.000	c37v	231.8	72.2	15.6	−35.4	38.8	293.7	0.000	0.625	1.000	B
o50y	60.0	77.9	22.8	12.8	26.1	29.3	1.000	0.500	0.000	c50v	240.0	72.3	16.4	−35.3	39.0	294.9	0.000	0.500	1.000	
o62y	68.2	81.4	15.1	17.8	23.3	49.6	1.000	0.625	0.000	c62v	248.2	72.6	17.5	−34.8	39.0	296.6	0.000	0.375	1.000	
o75y	76.1	88.0	1.4	26.9	26.9	87.0	1.000	0.750	0.000	c75v	256.1	72.8	18.3	−34.4	39.1	297.9	0.000	0.250	1.000	J
o87y	83.4	93.5	−12.9	34.1	36.5	110.8	1.000	0.875	0.000	c87v	263.4	72.9	18.7	−34.3	39.1	298.6	0.000	0.125	1.000	
y00l=Y	90.0	92.1	−20.3	31.9	37.8	122.6	1.000	1.000	0.000	v00m=V	270.0	73.0	19.0	−34.2	39.2	299.0	0.000	0.000	1.000	
y12l	96.6	91.1	−25.3	30.4	39.6	129.8	0.875	1.000	0.000	v12m	276.6	73.0	19.2	−34.1	39.2	299.3	0.125	0.000	1.000	
y25l	103.9	90.5	−28.7	29.5	41.2	134.3	0.750	1.000	0.000	v25m	283.9	73.2	19.7	−33.8	39.2	300.1	0.250	0.000	1.000	
y37l	111.8	90.1	−30.9	28.9	42.4	137.0	0.625	1.000	0.000	v37m	291.8	73.4	20.6	−33.4	39.4	301.5	0.375	0.000	1.000	
y50l	120.0	89.9	−32.3	28.5	43.2	138.6	0.500	1.000	0.000	v50m	300.0	73.8	22.1	−32.8	39.6	303.9	0.500	0.000	1.000	
y62l	128.2	89.8	−33.0	28.3	43.6	139.4	0.375	1.000	0.000	v62m	308.2	74.4	24.3	−31.7	40.0	307.3	0.625	0.000	1.000	
y75l	136.1	89.7	−33.4	28.2	43.8	139.9	0.250	1.000	0.000	v75m	316.1	75.3	27.4	−30.3	40.9	312.0	0.750	0.000	1.000	
y87l	143.4	89.7	−33.7	28.2	44.0	140.2	0.125	1.000	0.000	v87m	323.4	76.5	31.3	−28.4	42.3	317.6	0.875	0.000	1.000	
l00c=L	150.0	89.6	−33.8	28.2	44.0	140.3	0.000	1.000	0.000	m00o=M	330.0	77.9	35.8	−26.2	44.4	323.7	1.000	0.000	1.000	M'
l12c	156.6	89.6	−33.9	28.1	44.1	140.4	0.000	1.000	0.125	m12o	336.6	78.2	35.9	−20.0	41.1	330.8	1.000	0.000	0.875	
l25c	163.9	89.6	−34.1	28.1	44.3	140.7	0.000	1.000	0.250	m25o	343.9	77.6	32.6	−10.9	34.4	341.4	1.000	0.000	0.750	
l37c	171.8	89.5	−34.5	28.0	44.5	141.0	0.000	1.000	0.375	m37o	351.8	77.1	29.9	−2.2	30.0	355.7	1.000	0.000	0.625	
l50c	180.0	89.5	−34.9	27.8	44.8	141.5	0.000	1.000	0.500	m50o	360.0	76.7	28.0	4.3	28.3	8.7	1.000	0.000	0.500	
l62c	188.2	89.4	−35.4	27.7	45.1	142.1	0.000	1.000	0.625	m62o	368.2	76.5	26.9	8.1	28.1	16.7	1.000	0.000	0.375	G
l75c	196.1	89.3	−35.6	27.4	45.0	142.6	0.000	1.000	0.750	m75o	376.1	76.5	26.5	9.6	28.2	19.8	1.000	0.000	0.250	
l87c	203.4	89.4	−34.6	24.2	42.3	145.1	0.000	1.000	0.875	m87o	383.4	76.4	26.4	10.1	28.3	20.9	1.000	0.000	0.125	R

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