

rgb*_e and CIE data of a elementary hue circle according to CIE R1-47:2009 for offset print
XYZ, Lab*, and Lab*_a data for relative spacing of elementary hue h_{AB,a} of Lab*

16 step elementary hue circle with intended elementary hues: h_{AB,a} = 25.4, 92.3, 162.2, 271.7

Code	X	Y	Z	x	y	L*	a*	b*	L*	a*	b*	C _{AB,a}	h _{AB,a}	rgb → rgb*
R00Y=R	31.4	17.3	6.6	0.566	0.313	48.7	66.5	32.9	48.7	66.7	31.8	73.9	25.4	1.00 0.00 0.00
R25Y	34.5	22.5	5.1	0.555	0.361	54.5	52.6	49.2	54.5	52.9	47.9	71.4	42.2	1.00 0.25 0.00
R50Y	40.5	31.9	6.2	0.514	0.405	63.2	34.6	59.5	63.2	35.0	58.0	67.8	58.9	1.00 0.50 0.00
R75Y	48.6	44.8	7.6	0.48	0.443	72.7	17.1	70.7	17.6	68.8	71.1	75.5	100.0	0.75 0.00 0.00
Y00G=Y	63.1	68.2	10.2	0.445	0.481	86.1	-4.0	85.1	86.1	-3.3	83.2	83.3	92.3	1.00 1.00 0.00
Y25G	41.3	53.0	10.1	0.396	0.507	67.8	-25.6	71.3	77.8	-25.0	69.6	74.0	109.8	0.75 1.00 0.00
Y50G	24.2	36.8	9.3	0.344	0.523	57.1	-41.3	55.2	67.1	-40.9	53.7	67.6	127.3	0.50 1.00 0.00
Y75G	14.9	27.7	9.8	0.285	0.527	59.6	-56.0	40.7	59.6	-55.6	39.3	68.2	144.7	0.25 1.00 0.00
G00B=G	12.2	24.9	15.6	0.232	0.471	56.9	-61.7	20.9	56.9	-61.5	19.6	64.5	162.2	0.00 1.00 0.00
G25B	15.6	27.3	15.0	0.2	0.35	59.3	-50.8	-7.1	59.3	-50.5	-8.5	51.2	189.5	0.00 1.00 0.50
G50B	19.3	29.6	15.3	0.181	0.279	61.3	-39.4	-28.0	61.3	-39.1	-29.4	49.0	216.9	0.00 1.00 1.00
G75B	18.4	23.9	62.3	0.176	0.229	56.0	-20.9	-41.7	56.0	-20.6	-43.0	47.7	244.3	0.00 0.50 1.00
B00R=B	11.6	12.0	39.6	0.183	0.191	41.2	1.3	-44.0	41.2	1.3	-45.0	45.0	271.7	0.00 0.00 1.00
B25R	7.5	5.3	24.3	0.203	0.24	37.4	50.1	-29.6	37.4	50.1	-30.6	58.7	328.5	0.00 0.00 1.00
B50R	16.8	9.8	24.6	0.327	0.191	37.4	50.1	-29.6	37.4	50.1	-30.6	58.7	328.5	0.00 0.00 1.00
B75R	33.8	17.9	20.9	0.465	0.247	49.4	72.2	-2.5	49.4	72.4	-3.7	72.5	357.0	0.00 0.00 0.50

5 step equidistant grey scale with intended lightness: L* = 22.2, 40.7, 59.3, 77.8, 96.3

Code	X	Y	Z	x	y	L*	a*	b*	L*	a*	b*	C _{AB,a}	h _{AB,a}	rgb → rgb*
n00W=N	3.5	3.6	3.8	0.317	0.332	22.5	0.2	0.7	22.5	0.0	0.0	0.0	37.9	0.00 0.00 0.00
n025W	11.1	11.7	12.9	0.31	0.327	40.8	-0.3	-0.4	40.8	-0.3	-1.4	1.4	256.8	0.25 0.25 0.25
n050W	25.7	27.2	30.0	0.31	0.328	59.4	0.0	0.0	59.4	0.0	0.0	0.0	37.9	0.50 0.50 0.50
n075W	49.9	52.9	57.3	0.311	0.33	77.8	-0.8	0.2	77.8	-0.2	-1.4	1.4	259.2	0.75 0.75 0.75
n100W=W	86.0	91.0	95.9	0.315	0.333	96.4	-0.8	2.1	96.4	0.0	0.0	0.0	100.0	1.00 1.00 1.00

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rgb*_e and CIE data of a elementary hue circle according to CIE R1-47:2009 for offset print
XYZ, YAB*, and Lab*_a data for relative spacing of elementary hue h_{AB,a} of Lab*

16 step elementary hue circle with intended elementary hues: h_{AB,a} = 25.4, 92.3, 162.2, 271.7

Code	X	Y	Z	x	y	L*	a*	b*	L*	a*	b*	C _{AB,a}	h _{AB,a}	rgb → rgb*
R00Y=R	31.4	17.3	6.6	0.566	0.313	48.7	66.5	32.9	48.7	66.7	31.8	73.9	25.4	1.00 0.00 0.00
R25Y	34.5	22.5	5.1	0.555	0.361	54.5	52.6	49.2	54.5	52.9	47.9	71.4	42.2	1.00 0.25 0.00
R50Y	40.5	31.9	6.2	0.514	0.405	63.2	34.6	59.5	63.2	35.0	58.0	67.8	58.9	1.00 0.50 0.00
R75Y	48.6	44.8	7.6	0.48	0.443	72.7	17.1	70.7	17.6	68.8	71.1	75.5	100.0	0.75 0.00 0.00
Y00G=Y	63.1	68.2	10.2	0.445	0.481	86.1	-4.0	85.1	86.1	-3.3	83.2	83.3	92.3	1.00 1.00 0.00
Y25G	41.3	53.0	10.1	0.396	0.507	67.8	-25.6	71.3	77.8	-25.0	69.6	74.0	109.8	0.75 1.00 0.00
Y50G	24.2	36.8	9.3	0.344	0.523	57.1	-41.3	55.2	67.1	-40.9	53.7	67.6	127.3	0.50 1.00 0.00
Y75G	14.9	27.7	9.8	0.285	0.527	59.6	-56.0	40.7	59.6	-55.6	39.3	68.2	144.7	0.25 1.00 0.00
G00B=G	12.2	24.9	15.6	0.232	0.471	56.9	-61.7	20.9	56.9	-61.5	19.6	64.5	162.2	0.00 1.00 0.00
G25B	15.6	27.3	15.0	0.2	0.35	59.3	-50.8	-7.1	59.3	-50.5	-8.5	51.2	189.5	0.00 1.00 0.50
G50B	19.3	29.6	15.3	0.181	0.279	61.3	-39.4	-28.0	61.3	-39.1	-29.4	49.0	216.9	0.00 1.00 1.00
G75B	18.4	23.9	62.3	0.176	0.229	56.0	-20.9	-41.7	56.0	-20.6	-43.0	47.7	244.3	0.00 0.50 1.00
B00R=B	11.6	12.0	39.6	0.183	0.191	41.2	1.3	-44.0	41.2	1.3	-45.0	45.0	271.7	0.00 0.00 1.00
B25R	7.5	5.3	24.3	0.203	0.24	37.4	50.1	-29.6	37.4	50.1	-30.6	58.7	328.5	0.00 0.00 1.00
B50R	16.8	9.8	24.6	0.327	0.191	37.4	50.1	-29.6	37.4	50.1	-30.6	58.7	328.5	0.00 0.00 1.00
B75R	33.8	17.9	20.9	0.465	0.247	49.4	72.2	-2.5	49.4	72.4	-3.7	72.5	357.0	0.00 0.00 0.50

5 step equidistant grey scale with intended lightness: L* = 22.2, 40.7, 59.3, 77.8, 96.3

Code	X	Y	Z	x	y	L*	a*	b*	L*	a*	b*	C _{AB,a}	h _{AB,a}	rgb → rgb*
n00W=N	3.5	3.6	3.8	0.317	0.332	22.5	0.2	0.7	22.5	0.0	0.0	0.0	37.9	0.00 0.00 0.00
n025W	11.1	11.7	12.9	0.31	0.327	40.8	-0.3	-0.4	40.8	-0.3	-1.4	1.4	256.8	0.25 0.25 0.25
n050W	25.7	27.2	30.0	0.31	0.328	59.4	0.0	0.0	59.4	0.0	0.0	0.0	37.9	0.50 0.50 0.50
n075W	49.9	52.9	57.3	0.311	0.33	77.8	-0.8	0.2	77.8	-0.2	-1.4	1.4	259.2	0.75 0.75 0.75
n100W=W	86.0	91.0	95.9	0.315	0.333	96.4	-0.8	2.1	96.4	0.0	0.0	0.0	100.0	1.00 1.00 1.00

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rgb*_e and CIE data of a elementary hue circle according to CIE R1-47:2009 for offset print
XYZ, Lab*, and Lab*_a data for relative spacing of elementary hue h_{AB,a} of YAB*

16 step elementary hue circle with intended elementary hues: h_{AB,a} = 17.8, 93.1, 159.3, 270.5

Code	X	Y	Z	x	y	L*	a*	b*	L*	a*	b*	C _{AB,a}	h _{AB,a}	rgb → rgb*	
R00Y=R	31.3	17.3	6.3	0.569	0.315	17.8	48.7	66.5	34.1	48.7	66.6	33.0	74.3	26.3	1.00 0.00 0.00
R25Y	37.1	26.5	5.6	0.535	0.382	36.6	58.5	44.1	53.9	58.5	44.1	53.9	58.5	44.1	1.00 0.25 0.00
R50Y	43.6	36.8	6.8	0.499	0.422	55.5	67.1	27.2	63.9	67.1	27.2	62.4	68.3	66.0	1.00 0.50 0.00
R75Y	51.1	48.9	8.1	0.472	0.452	74.2	75.3	12.7	73.4	75.3	12.7	71.7	72.9	79.5	1.00 0.75 0.00
Y00G=Y	62.9	68.0	10.2	0.445	0.481	93.1	86.0	-3.8	84.9	86.0	-3.2	83.1	83.2	92.2	1.00 1.00 0.00
Y25G	49.0	59.9	9.6	0.413	0.505	109.7	81.8	-20.6	79.6	81.8	-20.0	77.8	80.4	104.4	0.75 1.00 0.00
Y50G	29.4	41.9	9.3	0.364	0.519	126.2	70.8	-36.0	61.4	70.8	-35.5	59.8	69.6	120.7	0.50 1.00 0.00
Y75G	16.6	29.3	9.9	0.298	0.524	142.7	61.0	-52.2	42.8	61.0	-51.9	41.4	66.4	141.4	0.25 1.00 0.00
G00B=G	12.2	24.9	15.6	0.232	0.471	159.3	56.9	-61.8	21.0	56.9	-61.5	19.7	64.6	162.1	0.00 1.00 0.00
G25B	15.1	27.0	15.8	0.204	0.365	187.1	59.0	-52.5	-3.3	59.0	-52.2	-4.7	52.4	185.1	0.00 0.50 0.50
G50B	17.4	28.5	46.6	0.188	0.307	214.8	60.3	-44.8	-19.1	60.3	-44.5	-20.4	49.0	240.7	0.00 0.00 1.00
G75B	21.9	31.4	71.0	0.176	0.252	242.7	62.8	-33.3	-37.5	62.8	-33.0	-38.9	51.0	229.6	0.00 0.50 1.00
B00R=B	11.8	12.4	40.3	0.183	0.192	270.5	41.8	0.3	-43.9	41.8	0.4	-44.9	44.9	270.5	0.00 0.00 1.00
B25R	9.4	6.1	23.9	0.233	0.192	270.5	41.8	0.3	-43.9	41.8	0.4	-44.9	44.9	270.5	0.00 0.00 1.00
B50R	17.2	9.9	24.5	0.332	0.192	324.2	37.8	51.0	-28.9	37.8	51.0	-29.9	39.6	329.6	0.00 0.00 1.00
B75R	32.4	17.2	24.6	0.436	0.232	350.9	48.6	71.1	-10.4	48.6	71.2	-11.6	72.2	350.7	0.00 0.00 0.50

5 step equidistant grey scale with intended lightness: L* = 22.2, 40.7, 59.3, 77.8, 96.3

Code	X	Y	Z	x	y	h_{AB}	L^*	a^*	b^*	L_a^*	a_a^*	b_a^*	$C_{AB,a}$	$h_{AB,a}$	rgb → rgb*
n00W=N	3.5	3.6	3.8	0.317	0.332	0.5	22.5	0.2	0.7	22.5	0.0	0.0	37.9	0.00 0.00 0.00	
n025W	11.1	11.7	12.9	0.31	0.327	27.15	40.8	-0.3	-0.4	40.8	-0.3	-1.4	1.4	256.8	0.25 0.25 0.25
n050W	25.7	27.2	30.0	0.31	0.328	266.5	59.2	-0.6	-0.4	59.2	-0.3	-1.8	1.8	258.1	0.50 0.50 0.50
n075W	49.9	52.9	57.3	0.311	0.33	264.9	77.8	-0.8	0.2	77.8	-0.2	-1.4	1.4	259.2	0.75 0.75 0.75
n100W=W	86.0	91.0	95.9	0.315	0.333	99.2	96.4	-0.8	2.1	96.4	0.0	0.0	0.0	100.0	1.00 1.00 1.00

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rgb*_e and CIE data of a elementary hue circle according to CIE R1-47:2009 for offset print
XYZ, YAB*, and Lab*_a data for relative spacing of elementary hue h_{AB,a} of YAB*

16 step elementary hue circle with intended elementary hues: h_{AB,a} = 17.8, 93.1, 159.3, 270.5

Code	X	Y	Z	A	B	A _B	B _A	C _{AB,a}	L _a *	a*	b*	C _{AB,a}	h _{AB,a}	rgb → rgb*	
R00Y=R	31.3	17.3	6.3	0.569	0.315	145.149	4.7	15.6	17.8	48.7	66.6	33.0	74.3	26.3	1.00 0.00 0.00
R25Y	37.1	26.5	5.6	0.535	0.382	99.051	12.8	15.5	55.5	58.5	44.1	53.9	58.5	44.1	1.00 0.25 0.00
R50Y	43.6	36.8	6.8	0.499	0.422	55.548	12.8	15.5	55.5	67.1	27.2	62.4	68.3	66.0	1.00 0.50 0.00
R75Y	51.1	48.9	8.1	0.454	0.066	48.8	17.3	18.0	74.2	75.3	13.2	71.7	72.9	79.5	1.00 0.75 0.00
Y00G=Y	62.9	68.0	10.2	0.925	-0.06	-1.3	24.6	24.6	93.1	86.0	-3.2	83.1	83.2	92.2	1.00 0.00 1.00
Y50G	49.0	59.9	9.8	0.817	-0.064	-7.6	21.4	22.8	108.7	81.8	-20.0	77.8	80.4	104.4	0.75 0.00 1.00
Y75G	40.9	70.9	9.2	0.750	-0.064	-10.3	21.4	22.8	127.0	70.9	-20.0	77.8	80.4	104.4	0.50 0.00 1.00
Y00B=B	15.6	29.3	9.9	0.568	-0.133	-110.8	8.3	13.8	142.7	61.0	-51.9	41.4	66.4	114.4	0.25 0.00 1.00
G00B=G	12.2	24.9	15.6	0.493	-0.251	-112.2	10.2	12.0	159.3	56.9	-61.5	19.7	64.6	122.2	0.00 1.00 0.00
G25B	15.1	27.0	13.8	0.558	-0.47	-10.4	-1.3	10.5	181.7	59.0	-52.2	47.7	52.4	185.1	0.00 0.50 1.00
G50B	18.2	27.0	12.2	0.568	-0.47	-10.4	-1.3	10.5	181.7	59.0	-52.2	47.7	52.4	185.1	0.00 0.25 1.00
G75B	21.9	31.4	71.0	0.697	-0.904	-7.8	-15.1	17.0	242.7	62.8	-33.0	-38.9	39.0	229.6	0.00 0.50 1.00
R00R=B	11.8	12.4	40.3	0.954	-1.301	0.1	-10.9	10.9	270.5	41.8	0.4	-44.9	44.9	270.5	0.00 0.00 1.00
R25R	9.4	6.1	23.9	1.537	-1.564	3.6	-6.8	7.8	297.3	29.7	34.1	-42.6	54.6	308.6	0.50 0.00 1.00
R50R	17.2	6.1	23.9	1.537	-1.564	3.6	-6.8	7.8	297.3	29.7	34.1	-42.6	54.6	308.6	0.25 0.00 1.00
R75R	17.2	24.9	15.6	0.493	-0.251	-112.2	10.2	12.0	159.3	56.9	-61.5	19.7	64.6	122.2	0.00 0.00 1.00