

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	73.8	58.9	1.00 0.50 0.00
R75Y	48.6	44.8	7.6	0.48	0.443	72.7	17.1	70.4	72.7	17.6	68.8	71.1	75.5	1.00 0.75 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	92.3	1.00 1.00 0.00	
Y25G	41.3	53.0	10.1	0.396	0.507	77.8	-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	0.228	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	0.19	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	27.5	27.4	-59.4	27.5	27.2	-60.9	54.2	300.1	0.50 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	1.00 0.00 0.50
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	1.00 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*
n000=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	-0.6	-0.6	59.4	-0.6	-1.8	1.8	258.1	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*	C _{AB,a}	h _{AB,a}	rgb → rgb*				
R00Y=R	31.4	17.3	6.6	0.566	0.152	49.4	15.6	17.3	40.7	66.7	31.8	73.9	25.4	1.00 0.00 0.00	
R25Y	34.5	22.5	5.1	0.555	0.191	53.2	14.5	22.5	45.9	69.0	47.9	67.8	58.9	1.00 0.25 0.00	
R50Y	40.5	31.9	6.2	0.514	0.227	60.8	10.5	46.6	63.2	68.7	73.9	75.4	1.00 0.50 0.00		
R75Y	48.6	44.8	7.6	0.484	0.068	62.6	15.8	17.0	68.5	72.7	176.6	68.8	71.1	75.5	1.00 0.75 0.00
Y00G=Y	63.1	68.2	10.2	0.924	-0.06	-1.4	24.7	34.7	93.1	86.1	-3.3	83.2	92.3	1.00 1.00 0.00	
Y25G	41.3	53.0	10.1	0.78	-0.07	-8.1	20.2	15.4	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	-0.06	-12.7	13.6	145.3	59.6	-55.6	39.3	68.2	144.7	0.25 1.00 0.00	
Y75G	14.9	27.7	9.8	0.54	-0.14	-12.7	7.3	136.5	49.6	-55.6	39.3	68.2	144.7	0.25 1.00 0.00	
G00B=G	12.2	24.9	15.6	0.493	-0.25	-11.2	4.2	120.0	159.4	56.9	-61.5	19.6	162.2	0.00 1.00 0.00	
G25B	15.6	27.3	15.0	0.569	-0.51	-10.2	-2.4	10.3	193.9	50.5	-85.5	51.2	189.5	0.00 1.00 0.50	
G50B	19.3	29.6	15.3	0.598	-0.47	-10.2	-2.4	10.3	193.9	50.5	-85.5	51.2	189.5	0.00 1.00 0.50	
G75B	18.4	23.9	62.3	0.77	-1.09	-4.1	-14.8	15.3	254.1	56.0	-20.6	-43.0	47.7	244.3	0.00 0.50 1.00
B00R=B	11.6	12.0	39.6	0.965	-1.31	0.02	-10.7	10.7	212.2	41.2	1.3	-45.0	45.0	271.7	0.00 0.00 1.00
B25R	7.5	5.3	24.3	1.43	-1.84	2.5	-7.4	7.9	288.9	37.4	50.1	-60.9	54.2	300.1	0.50 0.00 1.00
B50R	16.8	9.8	24.6	1.715	-1.06	7.5	-5.7	9.4	322.8	27.5	27.2	-36.8	58.7	328.5	1.00 0.00 0.50
B75R	33.8	17.9	20.9	1.98	-0.89	1.0	-5.7	9.4	322.8	27.5	27.2	-36.8	58.7	328.5	1.00 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*
n000=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	-0.2	-0.2	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	-0.4	-0.4	59.4	-0.6	-1.8	1.8	258.1	0.50 0.50 0.50
n075w	49.9	52.9	57.3	0.311	0.33	77.8	-0.6	-0.6	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	44.4	53.6	68.8	49.7	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	31.8	0.204	0.365	187.1	59.0	-52.5	-3.3	59.0	-52.2	-4.7	52.4	185.1	0.00 1.00 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	247.0	0.00 1.00 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	0.238	0.155	297.3	29.7	34.2	-41.9	29.7	34.1	-42.6	46.6	308.6	0.50 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	59.1	329.6	1.00 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	1.00 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 _s	
n000w=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	56.65	59.4	-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	84.9	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	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	x	y	L^*	a^*	b^*	L^*	a^*	b^*	$C_{AB,a}$	$h_{AB,a}$	$rgb \rightarrow rgb^*$			
R00Y=R	31.3	17.3	6.3	0.569	0.315	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	36.6	58.5	44.1	53.9	58.5	44.4	53.6	68.8	49.7			
R50Y	43.6	36.8	6.8	0.499	0.422	18.8	55.5	67.2	64.2	68.3	60.6	1.00	0.50	0.00			
R75Y	51.1	48.9	8.1	0.454	0.066	47.8	17.3	80.2	73.2	71.2	72.9	95.1	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	-32	83.1	83.2	92.2	1.00	1.00	0.00
Y25G	49.0	59.9	9.6	0.817	-0.064	-7.4	21.8	108.7	81.8	-20.0	77.8	80.4	104.4	0.75	1.00	0.00	
Y50G	29.4	9.3	2.9	0.701	0.002	-12.3	13.8	142.7	61.0	-51.9	41.4	66.4	1.00	0.50	0.00		
Y75G	16.6	2.9	0.9	0.568	-0.135	-110.8	3.3	142.7	61.0	-51.9	41.4	66.4	1.00	0.25	1.00	0.00	
G00B=G	12.2	24.9	15.6	0.493	-0.251	-12.2	4.2	12.0	159.3	36.5	-61.9	19.7	64.6	162.1	0.00	1.00	0.00
G25B	15.1	27.0	13.8	0.538	-0.47	-10.4	-1.3	10.5	187.1	59.0	-52.2	-47	52.4	185.1	0.00	0.50	1.00
G50B	11.2	19.2	10.2	0.592	-0.50	-10.0	-1.3	10.5	187.1	59.0	-52.2	-47	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	51.0	229.6	0.00	0.50	1.00
B00R=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	270.5	0.00	0.00	1.00	
B25R	9.4	6.1	23.9	0.537	-1.564	3.6	-6.9	7.8	297.3	29.7	34.1	-42.6	254.9	30.8	0.50	0.00	1.00
B50R	17.2	9.9	24.5	1.725	-0.984	7.7	-5.6	9.5	324.2	37.8	51.0	-29.6	59.1	329.6	1.00	0.00	1.00