

48 step circle with interpretation <i>rgb</i> -> <i>rgb</i> * _d device hue steps of 1080 standard colours																																	
<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> *	<i>b</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> *	<i>b</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> *	<i>b</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> *	<i>b</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> *	<i>b</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> *	<i>b</i> *	<i>a</i> *	<i>b</i> *				
1.0 0.0 0.0	32.2	50.5	69.4	43.8	1.0 1.0 0.0	92.7	90.9	-4.1	87.7	0.0 1.0 0.0	153.5	55.0	-62.9	31.2	0.0 1.0 1.0	229.1	61.4	-38.8	-44.8	0.0 0.0 1.0	292.2	26.8	19.6	-48.0	1.0 0.0 1.0	355.9	51.2	73.9	-5.2				
1.0 0.12 0.0	38.8	54.6	60.5	48.7	0.87 1.0 0.0	96.4	86.9	-9.2	82.4	0.0 1.0 0.12	161.0	55.8	-61.3	21.0	0.0 0.87 1.0	233.8	57.6	-33.1	-45.3	0.12 0.0 1.0	304.6	29.4	29.4	-42.6	1.0 0.0 0.87	0.0	51.2	73.2	0.0				
1.0 0.25 0.0	46.2	59.0	51.1	53.5	0.75 1.0 0.0	99.9	83.1	-13.8	78.5	0.0 1.0 0.25	170.1	56.6	-59.1	10.2	0.0 0.75 1.0	238.8	53.9	-27.5	-45.6	0.25 0.0 1.0	315.4	31.4	37.5	-36.9	1.0 0.0 0.75	3.8	51.1	72.5	4.8				
1.0 0.37 0.0	55.4	64.2	40.7	59.2	0.62 1.0 0.0	106.9	77.7	-20.6	67.7	0.0 1.0 0.37	181.5	57.5	-56.1	-1.5	0.0 0.62 1.0	245.8	49.1	-20.6	-46.1	0.37 0.0 1.0	321.8	35.7	42.3	-33.2	1.0 0.0 0.62	8.5	51.2	71.3	10.7				
1.0 0.5 0.0	65.0	69.7	30.2	65.1	0.5 1.0 0.0	113.8	73.3	-27.1	61.3	0.0 1.0 0.5	192.1	58.2	-53.3	-11.4	0.0 0.5 1.0	254.1	44.5	-13.2	-46.5	0.5 0.0 1.0	332.5	39.1	51.1	-26.5	1.0 0.0 0.5	13.2	50.8	71.3	16.7				
1.0 0.62 0.0	74.2	75.5	20.0	71.3	0.37 1.0 0.0	122.0	68.5	-34.4	55.0	0.0 1.0 0.62	202.2	58.8	-50.3	-20.6	0.0 0.37 1.0	264.0	39.6	-4.8	-46.6	0.62 0.0 1.0	341.3	42.1	58.2	-19.6	1.0 0.0 0.37	17.9	50.9	70.6	22.9				
1.0 0.75 0.0	81.6	80.8	11.3	76.7	0.25 1.0 0.0	137.1	62.0	-45.0	41.7	0.0 1.0 0.75	212.2	59.6	-46.6	-29.4	0.0 0.25 1.0	272.7	35.6	2.2	-47.3	0.75 0.0 1.0	345.8	46.2	62.8	-15.8	1.0 0.0 0.25	23.7	50.8	69.9	30.7				
1.0 0.87 0.0	87.6	85.8	3.4	81.7	0.12 1.0 0.0	145.6	58.7	-53.5	36.5	0.0 1.0 0.87	220.4	60.5	-43.1	-36.8	0.0 0.12 1.0	282.0	31.6	10.1	-47.6	0.87 0.0 1.0	351.0	48.9	68.2	-10.7	1.0 0.0 0.12	28.2	50.7	69.5	37.3				
RYGB_{ton} : 25.4, 92.3, 162.2, 271.7 RYGB_{all} : 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 LAB*<i>Nio</i> : 22.2, 0.5, 0.5 LAB*<i>Wio</i> : 96.3, -0.5, 1.9																																	
25.4	42.1	58.8	75.6	92.3	109.7	127.2	144.7	162.2	189.6	216.9	244.3	271.7	300.1	328.6	357.0	LAB*<i>Nio</i>	22.2	0.5	0.5	LAB*<i>Wio</i>	96.3	-0.5	1.9										
46	3	5	7	11	13	14	17	19	22	26	29	32	35	40																			
17.9 23.7	32.2 38.8	46.2 55.4	65.0 74.2	81.6 87.6	99.9 106.9	113.8 122.0	137.1 145.6	153.5 161.0	170.1 181.5	192.1 202.2	220.4 229.1	245.8 254.1	272.7 282.0	304.6 315.4	332.5 341.3	351.0 355.9																	
0.382	0.452	0.356	0.178	0.922	0.408	0.343	0.89	0.124	0.76	0.573	0.787	0.641	0.63	0.265																			
651 650	648 657	666 675	684 693	702 711	558 477	396 315	315 234	72 73	74 75	77 78	71 62	44 35	17 8	170 251	575 656																		
649 648	666 675	684 693	702 711	720 639	396 315	234 153	153 72	74 75	76 77	79 80	53 44	26 17	89 170	332 413	655 654																		
507 506	504 531	558 585	612 639	666 693	234 711	468 225	225 702	216 217	218 219	221 222	197 170	116 89	35 8	494 17	269 512																		
505 504	558 585	612 639	666 693	720 477	468 225	702 459	459 216	218 219	220 221	223 224	143 116	62 35	251 494	260 503	511 510																		
16 step elementary hue circle with intended elementary hues: <i>h</i>_{ab,a} = 25.4, 92.3, 162.2, 271.7																																	
<i>r00j</i> = <i>R</i>	329	1173	935	789	697	669	667	674	687	639	570	595	695	707	591	498	469	418	35.3	19.1	5.4	0.59	0.318	13.0	50.8	69.9	34.3	50.8	69.7	33.2	77.2	25.4	1.00 0.00 0.00
<i>r25j</i>	1247	1003	753	569	453	406	390	407	462	471	460	589	917	1219	1265	1208	1189	1125	38.9	24.5	4.0	0.576	0.364	22.2	56.6	56.2	52.2	56.6	56.2	50.9	75.8	42.2	1.00 0.25 0.00
<i>r50j</i>	993	905	1171	2760	5375	7254	8154	8523	8680	8762	8808	8815	8823	8839	8857	8853	8873		46.1	35.5	5.0	0.531	0.409	37.9	66.1	36.9	62.6	66.1	36.9	61.2	71.5	58.8	1.00 0.50 0.00
<i>r75j</i>	1431	1173	887	662	513	446	424	447	532	572	592	826	1444	2185	2552	2615	2632	2578	55.7	50.5	6.4	0.494	0.448	62.0	76.3	18.3	73.8	76.3	18.5	72.2	74.6	75.5	1.00 0.75 0.00
<i>j00g</i> = <i>J</i>	2427	2315	2609	4110	6259	7684	8344	8611	8731	8795	8834	8837	8841	8838	8853	8871	8865	8880	73.0	77.7	8.7	0.457	0.487	94.4	90.6	-3.9	89.3	90.6	-3.5	87.4	87.5	92.3	1.00 1.00 0.00
<i>j25g</i>	5302	4882	4611	4476	4361	4282	4277	4294	4332	4433	4572	4643	4611	4533	4407	4306	4353	4597	39.9	49.7	8.0	0.408	0.509	121.8	75.9	-23.5	66.3	75.9	-23.3	64.7	68.8	109.8	0.75 1.00 0.00
<i>j50g</i>	952	1015	951	770	596	520	495	545	702	823	919	1427	2805	4667	5689	5591	5045	4337	24.2	35.4	7.5	0.36	0.527	139.6	66.0	-38.2	51.4	66.0	-38.1	50.0	62.9	127.3	0.50 1.00 0.00
<i>j75g</i>	3584	3012	2671	2499	2367	2277	2264	2280	2319	2429	2588	2679	2647	2558	2414	2300	2363	2642	15.4	27.1	7.8	0.305	0.539	152.5	59.1	-52.4	38.3	59.1	-52.4	37.0	64.2	144.7	0.25 1.00 0.00
<i>g00b</i> = <i>G</i>	734	1027	1182	1130	928	952	965	1047	1234	1366	1462	1620	3216	4040	5224	4751	3930	2994	11.9	23.8	11.3	0.252	0.506	164.2	55.9	-61.0	20.8	55.9	-61.1	19.6	64.1	162.2	0.00 1.00 0.00
<i>g25b</i>	2069	1404	1036	861	737	656	647	666	701	807	965	1063	1036	954	818	718	784	1064	14.4	26.0	25.7	0.217	0.393	190.4	58.0	-53.9	-7.8	58.0	-54.0	-9.1	54.7	189.5	0.00 1.00 0.50
<i>g50b</i>	1040	1656	2164	2422	2420	2517	2702	2911	3151	3296	3368	3759	4642	5485	5533	4886	4008	3040	17.5	28.3	45.2	0.192	0.31	223.2	60.1	-44.7	-32.3	60.1	-44.7	-33.6	56.0	216.9	0.00 1.00 1.00
<i>g75b</i>	2092	1411	1037	857	733	653	645	667	705	811	970	1067	1039	957	821	722	793	1076	14.0	18.5	41.4	0.189	0.25	250.5	50.1	-21.9	-44.9	50.1	-22.0	-46.0	51.0	244.3	0.00 0.50 1.00
<i>b00r</i> = <i>B</i>	1397	2304	3281	3989	4255	4620	5134	5565	5812	5923	5931	6031	6239	6249	5800	4986	4052	3056	8.9	9.0	26.1	0.202	0.205	271.8	36.1	1.7	-46.4	36.1	1.4	-47.2	47.2	271.7	0.00 0.00 1.00
<i>b25r</i>	882	1277	1636	1908	2064	2281	2541	2614	2421	2098	1754	1443	1159	873	614	455	370	270	7.8	5.5	17.9	0.25	0.175	295.3	28.1	26.5	-44.2	28.1	26.0	-44.9	51.9	300.1	0.50 0.00 1.00
<i>b50r</i>	1638	1825	1930	2145	2261	2438	2642	2666	2450	2106	1753	1440	1155	873	624	480	418	332	17.1	10.0	18.4	0.374	0.22	330.6	37.9	48.2	-28.3	37.9	47.8	-29.2	56.0	328.5	1.00 0.00 1.00
<i>b75r</i>	236	207	328	1007	2066	2685	2952	3069	3148	3271	3432	3521	3497	3417	3281	3172	3231	3501	30.2	27.9	49.8	0.259	0.243	357.9	51.4	74.2	-2.7	51.4	74.1	-3.8	74.2	357.0	1.00 0.00 0.50
302	279	498	1952	23																													

48 step circle with interpretation <i>rgb</i> -> <i>rgb</i> * _d device hue steps of 1080 standard colours																																			
<i>rgb</i> -> <i>rgb</i> * _d	<i>h</i> _{ab,a}	<i>L</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>h</i> _{ab,a}	<i>L</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>h</i> _{ab,a}	<i>L</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>h</i> _{ab,a}	<i>L</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>h</i> _{ab,a}	<i>L</i> *	<i>a</i> *	<i>b</i> *	<i>rgb</i> -> <i>rgb</i> * _d	<i>h</i> _{ab,a}	<i>L</i> *	<i>a</i> *	<i>b</i> *						
1.0 0.0 0.0	32.2	50.5	69.4	43.8	1.0 1.0 0.0	92.7	90.9	-4.1	87.7	0.0 1.0 0.0	153.5	55.0	-62.9	31.2	0.0 1.0 1.0	229.1	61.4	-38.8	-44.8	0.0 0.0 1.0	292.2	26.8	19.6	-48.0	1.0 0.0 1.0	355.9	51.2	73.9	-5.2						
1.0 0.12 0.0	38.8	54.6	60.5	48.7	0.87 1.0 0.0	96.4	86.9	-9.2	82.4	0.0 1.0 0.12	161.0	55.8	-61.3	21.0	0.0 0.87 1.0	233.8	57.6	-33.1	-45.3	0.12 0.0 1.0	304.6	29.4	29.4	-42.6	1.0 0.0 0.87	0.0	51.2	73.2	0.0						
1.0 0.25 0.0	46.2	59.0	51.1	53.5	0.75 1.0 0.0	99.9	83.1	-13.8	78.5	0.0 1.0 0.25	170.1	56.6	-59.1	10.2	0.0 0.75 1.0	238.8	53.9	-27.5	-45.6	0.25 0.0 1.0	315.4	31.4	37.5	-36.9	1.0 0.0 0.75	3.8	51.1	72.5	4.8						
1.0 0.37 0.0	55.4	64.2	40.7	59.2	0.62 1.0 0.0	106.9	77.7	-20.6	67.7	0.0 1.0 0.37	181.5	57.5	-56.1	-1.5	0.0 0.62 1.0	245.8	49.1	-20.6	-46.1	0.37 0.0 1.0	321.8	35.7	42.3	-33.2	1.0 0.0 0.62	8.5	51.2	71.3	10.7						
1.0 0.5 0.0	65.0	69.7	30.2	65.1	0.5 1.0 0.0	113.8	73.3	-27.1	61.3	0.0 1.0 0.5	192.1	58.2	-53.3	-11.4	0.0 0.5 1.0	254.1	44.5	-13.2	-46.5	0.5 0.0 1.0	332.5	39.1	51.1	-26.5	1.0 0.0 0.5	13.2	50.8	71.3	16.7						
1.0 0.62 0.0	74.2	75.5	20.0	71.3	0.37 1.0 0.0	122.0	68.5	-34.5	50.0	0.0 1.0 0.62	202.2	58.8	-50.3	-20.6	0.0 0.37 1.0	264.0	39.6	-4.8	-46.6	0.62 0.0 1.0	341.3	42.1	58.2	-19.6	1.0 0.0 0.37	17.9	50.9	70.6	22.9						
1.0 0.75 0.0	81.6	80.8	11.3	76.7	0.25 1.0 0.0	137.1	62.0	-45.0	41.7	0.0 1.0 0.75	212.2	59.6	-46.6	-29.4	0.0 0.25 1.0	272.7	35.6	2.2	-47.3	0.75 0.0 1.0	345.8	46.2	62.8	-15.8	1.0 0.0 0.25	23.7	50.8	69.9	30.7						
1.0 0.87 0.0	87.6	85.8	3.4	81.7	0.12 1.0 0.0	145.6	58.7	-53.5	36.5	0.0 1.0 0.87	220.4	60.5	-43.1	-36.8	0.0 0.12 1.0	282.0	31.6	10.1	-47.6	0.87 0.0 1.0	351.0	48.9	68.2	-10.7	1.0 0.0 0.12	28.2	50.7	69.5	37.3						
RYGB_{ton} : 25.4, 92.3, 162.2, 271.7 RYGB_{all} : 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 LAB*_{Nio} : 22.2, 0.5, 0.5 LAB*_{Wio} : 96.3, -0.5, 1.9																																			
25.4	42.1	58.8	75.6	92.3	109.7	127.2	144.7	162.2	189.6	216.9	244.3	271.7	300.1	328.6	357.0	LAB*_{Nio}	22.2	0.5	0.5	LAB*_{Wio}	96.3	-0.5	1.9	328.6	357.0	357.0	357.0	357.0	357.0						
46	3	5	7	11	13	14	17	19	22	26	29	32	35	40	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102						
17.9 23.7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29						
28.2 32.2	46.2	55.4	65.0	74.2	81.6	87.6	92.7	96.4	101.5	106.9	113.8	122.0	137.1	145.6	153.5	161.0	170.1	181.5	192.1	202.2	212.2	222.2	232.2	242.2	252.2	262.2	272.2	282.0	292.2						
0.382	0.452	0.562	0.672	0.782	0.892	0.922	0.948	0.968	0.982	0.992	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
651 650	648 657	666 675	684 693	702 711	720 711	738 702	756 639	774 505	792 331	810 166	828 25	846 10	864 5	882 0	899 0	917 0	935 0	953 0	971 0	989 0	1007 0	1025 0	1043 0	1061 0	1079 0	1097 0	1115 0	1133 0	1151 0						
649 648	666 675	684 693	702 711	720 711	738 702	756 639	774 505	792 331	810 166	828 25	846 10	864 5	882 0	899 0	917 0	935 0	953 0	971 0	989 0	1007 0	1025 0	1043 0	1061 0	1079 0	1097 0	1115 0	1133 0	1151 0	1169 0						
507 506	504 531	558 585	612 639	666 693	720 711	774 505	828 25	882 0	936 5	990 10	1044 15	1098 20	1152 25	1206 30	1260 35	1314 40	1368 45	1422 50	1476 55	1530 60	1584 65	1638 70	1692 75	1746 80	1800 85	1854 90	1908 95	1962 100	2016 105						
505 504	558 585	612 639	666 693	720 477	774 459	828 441	882 423	936 405	990 387	1044 369	1098 351	1152 333	1206 315	1260 297	1314 279	1368 261	1422 243	1476 225	1530 207	1584 189	1638 171	1692 153	1746 135	1800 117	1854 99	1908 81	1962 63	2016 45	2070 27						
16 step elementary hue circle with intended elementary hues: <i>h</i>_{ab,a} = 25.4, 92.3, 162.2, 271.7																																			
<i>r00j</i>=R	329	1173	935	789	697	669	667	674	687	639	570	595	695	707	591	498	469	418	353	19.1	5.4	1.85	-0.114	16.9	3.9	17.4	13.0	50.8	69.7	33.2	77.2	25.4	1.00	0.00	0.00
<i>r25j</i>	1247	1003	753	569	453	406	390	407	462	471	460	589	917	1219	1265	1208	1189	1125	38.9	24.5	4.0	1.582	-0.065	15.2	6.2	16.5	22.2	56.6	56.2	50.9	75.8	42.2	1.00	0.25	0.00
<i>r50j</i>	993	905	1171	2760	5375	7254	8154	8523	8680	8762	8808	8815	8823	8823	8839	8857	8853	8873	38.9	24.5	4.0	1.582	-0.065	15.2	6.2	16.5	22.2	56.6	56.2	50.9	75.8	42.2	1.00	0.25	0.00
<i>r75j</i>	1431	1173	887	662	513	446	424	447	532	572	592	826	1444	2185	2552	2615	2632	2578	46.1	35.5	5.0	1.298	-0.057	11.9	9.3	15.1	37.9	66.1	36.9	61.2	71.5	58.8	1.00	0.50	0.00
<i>r00g</i>=J	2427	2315	2609	4110	6259	7684	8344	8611	8731	8795	8834	8837	8841	8838	8853	8871	8865	8880	46.1	35.5	5.0	1.298	-0.057	11.9	9.3	15.1	37.9	66.1	36.9	61.2	71.5	58.8	1.00	0.50	0.00
<i>j25g</i>	1642	1384	1057	775	591	507	474	505	621	698	750	1112	2087	3411	4272	4544	4641	4630	55.7	50.5	6.4	1.103	-0.05	7.2	13.6	15.3	62.0	76.3	18.5	72.2	74.6	75.5	1.00	0.75	0.00
<i>j50g</i>	4508	4412	4671	5827	7267	8146	8539	8698	8777	8827	8858	8852	8853	8852	8862	8880	8873	8887	55.7	50.5	6.4	1.103	-0.05	7.2	13.6	15.3	62.0	76.3	18.5	72.2	74.6	75.5	1.00	0.75	0.00
<i>j75g</i>	1994	1703	1314	968	726	617	564	609	774	903	1007	1560	3094	5403	7229	8001	8299	8447	73.0	77.7	8.7	0.939	-0.044	-1.6	21.3	21.4	94.4	90.6	-3.5	87.4	87.5	92.3	1.00	1.00	0.00
<i>g25g</i>	8508	8568	8605	8687	8738	8783	8825	8853	8884	8914	8934	8927	8924	8920	8933	8947	8938	8951	73.0	77.7	8.7	0.939	-0.044	-1.6	21.3	21.4	94.4	90.6	-3.5	87.4	87.5	92.3	1.00	1.00	0.00
<i>g50g</i>	1346	1297	1104	857	654	561	527	572	738	861	963	1497	2948	4999	6332	6543	6278	5831	39.9	49.7	8.0	0.802	-0.064	-7.8	12.6	14.9	121.8	75.9	-23.3	64.7	68.8	109.8	0.75	1.00	0.00
<i>g75g</i>	5302	4882	4611	4476	4361	4282	4277	4294	4332	4433	4572	4643	4611	4533	4407	4306	4353	4597	39.9	49.7	8.0	0.802	-0.064	-7.8	12.6	14.9	121.8	75.9	-23.3	64.7	68.8	109.8	0.75	1.00	0.00
<i>b00r</i>=B	952	1015	951	770	596	520	495	545	702	823	919	1427	2805	4667	5689	5591	5045	4337	55.7	50.5	6.4	1.103	-0.05	7.2	13.6	15.3	62.0	76.3	18.5	72.2	74.6	75.5	1.00	0.75	0.00
<i>b25r</i>	3584	3012	2671	2499	2367	2277	2264	2280	2319	2429	2588	2679	2647	2558	2414	2300	2363	2642	24.2	35.4															