

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> _{ab,a}	<i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> _{ab,a}	<i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> _{ab,a}	<i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> _{ab,a}	<i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> _{ab,a}	<i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> _{ab,a}	<i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d	<i>a</i> _{ab,a}	<i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	
1.0 0.0 0.0	31.3	48.4	66.2	40.3	1.0 1.0 0.0	96.2	90.2	-9.6	88.3	0.0 1.0 0.0	152.5	55.8	-65.2	33.9	0.0 1.0 1.0	233.9	63.0	-30.5	-41.9	0.0 0.0 1.0	298.7	27.5	26.0	-47.3	1.0 0.0 1.0	353.0	49.5	73.5	-8.9	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
1.0 0.12 0.0	38.9	52.8	56.7	45.9	0.87 1.0 0.0	99.9	86.4	-14.5	83.3	0.0 1.0 0.12	159.4	56.7	-62.6	23.5	0.0 0.87 1.0	239.6	59.1	-24.9	-42.6	0.12 0.0 1.0	308.4	29.6	34.0	-42.7	1.0 0.0 0.87	357.1	49.4	72.3	-3.6	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
1.0 0.25 0.0	47.6	57.4	46.7	51.2	0.75 1.0 0.0	103.4	82.7	-18.9	79.6	0.0 1.0 0.25	167.8	57.5	-59.1	12.7	0.0 0.75 1.0	245.5	55.3	-19.6	-43.1	0.25 0.0 1.0	317.1	31.3	40.8	-37.8	1.0 0.0 0.75	0.8	49.2	71.2	1.1	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
1.0 0.37 0.0	58.1	62.8	35.8	57.6	0.62 1.0 0.0	110.2	77.5	-25.5	69.0	0.0 1.0 0.37	179.0	58.5	-54.5	0.8	0.0 0.62 1.0	253.6	50.4	-12.9	-43.9	0.37 0.0 1.0	322.4	35.4	44.8	-34.5	1.0 0.0 0.62	5.8	49.3	69.7	7.0	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
1.0 0.5 0.0	68.6	68.6	25.0	64.1	0.5 1.0 0.0	116.8	73.3	-31.7	62.8	0.0 1.0 0.5	190.1	59.3	-50.3	-8.9	0.0 0.5 1.0	262.6	45.7	-5.7	-44.6	0.5 0.0 1.0	331.5	38.3	52.7	-28.5	1.0 0.0 0.5	10.6	48.9	69.3	13.0	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
1.0 0.62 0.0	78.2	74.5	14.6	70.8	0.37 1.0 0.0	124.3	68.7	-38.7	56.8	0.0 1.0 0.62	201.4	60.1	-45.8	-18.0	0.0 0.37 1.0	272.8	40.7	2.2	-45.0	0.62 0.0 1.0	339.4	40.9	59.1	-22.2	1.0 0.0 0.37	15.7	48.9	68.2	19.2	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
1.0 0.75 0.0	85.6	80.0	5.8	76.6	0.25 1.0 0.0	137.9	62.4	-48.6	43.9	0.0 1.0 0.75	213.2	61.0	-40.8	-26.7	0.0 0.25 1.0	281.3	36.6	9.2	-45.9	0.75 0.0 1.0	343.4	44.9	63.2	-18.7	1.0 0.0 0.25	22.0	48.8	67.1	27.1	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
1.0 0.87 0.0	91.4	85.1	-2.0	82.0	0.12 1.0 0.0	145.4	59.3	-56.5	38.9	0.0 1.0 0.87	223.3	61.9	-36.1	-34.0	0.0 0.12 1.0	289.8	32.4	16.8	-46.6	0.87 0.0 1.0	348.3	47.4	68.2	-14.0	1.0 0.0 0.12	26.9	48.6	66.5	33.8	1.0 0.0 0.0	1.0	0.0	0.0	0.0	
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, 0.2, 0.6 LAB*_{Wio} : 96.3, -0.8, 2.0																																			
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						
46	1	3		4	7		10		13		14		17		19		22		25		28		32		35		40								
15.7 22.0	31.3	38.9		47.6	58.1		68.6		85.6	91.4		99.9	103.4		116.8	124.3		137.9	145.4		152.5	159.4		167.8	179.0		190.1	201.4		223.3	233.9		245.5	253.6	
26.9 31.3	47.6	58.1		68.6	78.2		85.6		96.2	99.9		110.2	116.8		137.9	145.4		145.4	152.5		167.8	179.0		190.1	201.4		223.3	233.9		245.5	253.6		272.8	281.3	
0.703	0.369		0.074		0.722		0.183		0.928		0.217		0.908		0.33		0.952		0.369		0.798		0.888		0.144		0.673		0.984						
651 650	648	657		666	675		675	684		702	711		639	558		396	315		315	234		72	73		74	75		77	78		80	71		53	44
649 648	666	675		684	693		693	702		720	639		477	396		234	153		153	72		74	75		76	77		79	80		62	53		35	26
507 506	504	531		558	585		585	612		666	693		477	234		468	225		225	702		216	217		218	219		221	222		224	197		143	116
505 504	558	585		612	639		639	666		720	477		711	468		702	459		459	216		218	219		220	221		223	224		170	143		89	62
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	1335	1118	883	730	636	605	600	609	630	591	531	566	678	701	590	497	468	417																	
	328	285	489	1960	4762	6931	8011	8461	8649	8744	8799	8869	8819	8821	8839	8859	8855	8871																	
<i>r25j</i>	1241	997	748	565	451	404	389	405	459	467	455	581	898	1184	1219	1160	1140	1076																	
	946	860	1123	2711	5340	7236	8147	8519	8679	8762	8807	8815	8823	8823	8839	8857	8854	8873																	
<i>r50j</i>	1399	1144	864	646	503	438	417	439	520	555	570	786	1354	2017	2325	2364	2373	2316																	
	2167	2056	2349	3874	6109	7614	8315	8598	8725	8791	8832	8836	8841	8838	8852	8870	8866	8879																	
<i>r75j</i>	1583	1325	1010	743	568	490	459	488	596	663	706	1033	1913	3079	3802	4013	4086	4061																	
	3925	3820	4095	5365	7005	8027	8486	8673	8762	8815	8848	8844	8845	8845	8857	8875	8867	8884																	
<i>j00g</i>=J	1933	1642	1262	928	702	598	550	589	746	862	953	1460	2847	4868	6383	6984	7209	7298																	
	7283	7277	7410	7891	8370	8632	8759	8819	8863	8897	8920	8914	8913	8910	8921	8937	8928	8943																	
<i>j25g</i>	1430	1343	1125	864	658	562	527	571	735	859	962	1498	2960	5049	6458	6750	6560	6189																	
	5730	5364	5122	5003	4898	4827	4825	4843	4880	4975	5103	5166	5138	5064	4951	4859	4902	5126																	
<i>j50g</i>	979	1028	952	764	590	512	487	535	689	809	904	1409	2792	4683	5749	5683	5161	4471																	
	3730	3164	2823	2650	2517	2427	2413	2430	2470	2581	2741	2832	2801	2711	2564	2449	2512	2793																	
<i>j75g</i>	740	919	927	788	629	556	540	594	759	882	978	1488	2831	4539	5310	4989	4269	3411																	
	2543	1907	1548	1372	1243	1158	1147	1164	1200	1307	1466	1561	1531	1447	1307	1201	1267	1547																	
<i>g00b</i>=G	760	1072	1250	1214	1089	1049	1070	1161	1353	1487	1582	2076	3314	4758	5248	4762	3938	3500																	
	2073	1406	1038	862	738	657	648	667	703	808	967	1065	1038	956	820	719	785	1066																	
<i>g25b</i>	1061	1072	2237	2523	2535	2646	2648	3069	3313	3457	3526	3905	4752	5541	5551	4890	4008	3037																	
	2088	1407	1033	854																															

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> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a	<i>rgb</i> -> <i>rgb</i> * _d <i>h</i> _{ab,a} <i>L</i> *	<i>a</i> * _a	<i>b</i> * _a							
1.0 0.0 0.0	31.3	48.4	66.2	40.3		1.0 1.0 0.0	96.2	90.2	-9.6	88.3		0.0 1.0 0.0	152.5	55.8	-65.2	33.9		0.0 1.0 0.0	233.9	63.0	-30.5	-41.9		0.0 0.0 1.0	298.7	27.5	26.0	-47.3	1.0 0.0 1.0	353.0	49.5	73.5	-8.9
1.0 0.12 0.0	38.9	52.8	56.7	45.9		0.87 1.0 0.0	99.9	86.4	-14.5	83.3		0.0 1.0 0.12	159.4	56.7	-62.6	23.5		0.0 0.87 1.0	239.6	59.1	-24.9	-42.6		0.12 0.0 1.0	308.4	29.6	34.0	-42.7	1.0 0.0 0.87	357.1	49.4	72.3	-3.6
1.0 0.25 0.0	47.6	57.4	46.7	51.2		0.75 1.0 0.0	103.4	82.7	-18.9	79.6		0.0 1.0 0.25	167.8	57.5	-59.1	12.7		0.0 0.75 1.0	245.5	55.3	-19.6	-43.1		0.25 0.0 1.0	317.1	31.3	40.8	-37.8	1.0 0.0 0.75	0.8	49.2	71.2	1.1
1.0 0.37 0.0	58.1	62.8	35.8	57.6		0.62 1.0 0.0	110.2	77.5	-25.5	69.0		0.0 1.0 0.37	179.0	58.5	-54.5	0.8		0.0 0.62 1.0	253.6	50.4	-12.9	-43.9		0.37 0.0 1.0	322.4	35.4	44.8	-34.5	1.0 0.0 0.62	5.8	49.3	69.7	7.0
1.0 0.5 0.0	68.6	68.6	25.0	64.1		0.5 1.0 0.0	116.8	73.3	-31.7	62.8		0.0 1.0 0.5	190.1	59.3	-50.3	-8.9		0.0 0.5 1.0	262.6	45.7	-5.7	-44.6		0.5 0.0 1.0	331.5	38.3	52.7	-28.5	1.0 0.0 0.5	10.6	48.9	69.3	13.0
1.0 0.62 0.0	78.2	74.5	14.6	70.8		0.37 1.0 0.0	124.3	68.7	-38.7	56.8		0.0 1.0 0.62	201.4	60.1	-45.8	-18.0		0.0 0.37 1.0	272.8	40.7	2.2	-45.0		0.62 0.0 1.0	339.4	40.9	59.1	-22.2	1.0 0.0 0.37	15.7	48.9	68.2	19.2
1.0 0.75 0.0	85.6	80.0	5.8	76.6		0.25 1.0 0.0	137.9	62.4	-48.6	43.9		0.0 1.0 0.75	213.2	61.0	-40.8	-26.7		0.0 0.25 1.0	281.3	36.6	9.2	-45.9		0.75 0.0 1.0	343.4	44.9	63.2	-18.7	1.0 0.0 0.25	22.0	48.8	67.1	27.1
1.0 0.87 0.0	91.4	85.1	-2.0	82.0		0.12 1.0 0.0	145.4	59.3	-56.5	38.9		0.0 1.0 0.87	223.3	61.9	-36.1	-34.0		0.0 0.12 1.0	289.8	32.4	16.8	-46.6		0.87 0.0 1.0	348.3	47.4	68.2	-14.0	1.0 0.0 0.12	26.9	48.6	66.5	33.8
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, 0.2, 0.6 LAB*Wio : 96.3, -0.8, 2.0																																	
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																		
46	1	3	4	7	10	13	14	17	19	22	25	28	32	35	40																		
15.7 22.0	31.3 38.9	47.6 58.1	58.1 68.6	68.6 78.2	78.2 85.6	85.6 91.4	91.4 97.0	97.0 103.4	103.4 110.2	110.2 116.8	116.8 124.3	124.3 137.9	137.9 145.4	145.4 152.5	152.5 159.4	159.4 167.8	167.8 179.0	179.0 190.1	190.1 201.4	201.4 213.2	213.2 233.9	233.9 239.6	239.6 253.6	253.6 262.6	262.6 272.8	272.8 281.3	281.3 298.7	298.7 317.1	317.1 322.4	322.4 331.5	331.5 339.4	339.4 357.0	
0.703	0.369	0.074	0.722	0.183	0.928	0.217	0.908	0.33	0.952	0.369	0.798	0.888	0.144	0.673	0.984																		
651 650	648 657	666 675	675 684	702 711	639 558	396 315	315 234	72 73	74 75	77 78	80 71	53 44	17 8	170 251	575 656																		
649 648	666 675	684 693	693 702	720 639	477 396	234 153	153 72	74 75	76 77	79 80	62 53	35 26	89 170	332 413	655 654																		
507 506	504 531	558 585	585 612	666 693	477 234	468 225	225 702	216 217	218 219	221 222	224 197	143 116	35 8	494 17	269 512																		
505 504	558 585	612 639	639 666	720 477	711 468	702 459	459 216	218 219	220 221	223 224	170 143	89 62	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>=R	1335	1118	883	730	636	605	600	609	630	591	531	566	678	701	590	497	468	417															
	328	285	489	1960	4762	6931	8011	8461	8649	8744	8799	8809	8819	8821	8839	8859	8865	8871	31.4	17.3	6.6	1.806	-0.152	14.9	4.6	15.6	17.3	48.7	66.7	31.8	73.9	25.4	1.00 0.00 0.00
<i>r25j</i>	1241	997	748	565	451	404	389	405	459	467	455	581	898	1184	1219	1160	1140	1076															
	946	860	1123	2711	5340	7236	8147	8519	8679	8762	8807	8815	8823	8823	8839	8857	8854	8873	34.5	22.5	5.1	1.534	-0.091	13.2	7.4	15.2	29.2	54.5	52.9	47.9	71.4	42.2	1.00 0.25 0.00
<i>r50j</i>	1399	1144	864	646	503	438	417	439	520	555	570	786	1354	2017	2325	2364	2373	2316															
	2167	2056	2349	3874	6109	7614	8315	8598	8725	8791	8832	8836	8841	8838	8852	8870	8866	8879	40.5	31.9	6.2	1.27	-0.078	10.3	10.9	15.0	46.6	63.2	35.0	58.0	67.8	58.9	1.00 0.50 0.00
<i>r75j</i>	1583	1325	1010	743	568	490	459	488	596	663	706	1033	1913	3079	3802	4013	4086	4061															
	3925	3820	4095	5365	7005	8027	8486	8673	8762	8815	8848	8844	8845	8845	8857	8875	8867	8884	48.6	44.8	7.6	1.084	-0.068	6.2	15.8	17.0	68.5	72.7	17.6	68.8	71.1	75.5	1.00 0.75 0.00
<i>j00g</i>=J	1933	1642	1262	928	702	598	550	589	746	862	953	1460	2847	4868	6383	6984	7209	7298															
	7283	7277	7410	7891	8370	8632	8759	8819	8863	8897	8920	8914	8913	8910	8921	8937	8928	8943	63.1	68.2	10.2	0.924	-0.06	-1.4	24.7	24.7	93.3	86.1	-3.3	83.2	83.3	92.3	1.00 1.00 0.00
<i>j25g</i>	1430	1343	1125	864	658	562	527	571	735	859	962	1498	2960	5049	6458	6750	6560	6189															
	5730	5364	5122	5003	4898	4827	4825	4843	4880	4975	5103	5166	5138	5064	4951	4859	4902	5126	41.3	53.0	10.1	0.78	-0.076	-8.7	18.3	20.2	115.4	77.8	-25.0	69.6	74.0	109.8	0.75 1.00 0.00
<i>j50g</i>	979	1028	952	764	590	512	487	535	689	809	904	1409	2792	4683	5749	5683	5161	4471															
	3730	3164	2823	2650	2517	2427	2413	2430	2470	2581	2741	2832	2801	2711	2564	2449	2512	2793	24.2	36.8	9.3	0.657	-0.101	-10.6	11.8	15.8	131.8	67.1	-40.9	53.7	67.6	127.3	0.50 1.00 0.00
<i>j75g</i>	740	919	927	788	629	556	540	594	759	882	978	1488	2831	4539	5310	4989	4269	3411															
	2543	1907	1548	1372	1243	1158	1147	1164	1200	1307	1466	1561	1531	1447	1307	1201	1267	1547	14.9	27.7	9.8	0.54	-0.141	-11.2	7.7	13.6	145.3	59.6	-55.6	39.3	68.2	144.7	0.25 1.00 0.00
<i>g00b</i>=G	760	1072	1250	1214	1089	1049	1070	1161	1353	1487	1582	2076	3314	4758	5248	4762	3938	3000															
	2073	1406	1038	862	738	657	648	667	703	808	967	1065	1038	956	820	719	785	1066	12.2	24.9	15.6	0.493	-0.251	-11.2	4.2	12.0	159.4	56.9	-61.5	19.6	64.5	162.2	0.00 1.00 0.00
<i>g25b</i>	1061	1702	2237	2523	2535	2646	2848	3069	3313	3457	3526	3905	4752	5541	5551	4890	4008	3037															
	2088	1407	1033	854	729	649	642	664	701	807	966	1064	1036	953	817	719	790	1072	15.6	27.3	35.0	0.569	-0.511	-10.2	-2.4	10.5	193.4	59.3	-50.5	-8.5	51.2	189.5	0.00 1.00 0.50
<i>g50b</i>	1374	2257	3200	3874	4120	4462	4950	5363	5612	5726	5740	5865	6129	6198	5780	4976	4044	3049															
	2082	1389	1011	833	709	632	627	648	688	795	951	1048	1020	939	803	707	780	1061	19.3	29.6	57.3	0.651	-0.772	-8.7	-10.4	13.5	229.9	61.3	-39.1	-29.4	49.0	216.9	0.00 1.00 1.00
<i>g75b</i>	1370	2308	3342	4166	4552	5041	5674	6129	6216	6146	5981	5745	5428	4984	4395	3711	3016	2263															
	1520	1004	771	722	678	624	624	645	683	787	940	1034	1007	928	795	700	774	1049	18.4	23.9	62.3</												