

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
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 0.12 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		65.8 91.4		99.9 103.4		116.8 124.3		124.3 137.9		152.5 159.4		167.8 179.0		201.4 213.2		233.9 239.6		253.6 262.6		289.8 298.7		317.1 322.4		348.3 353.0
26.9 31.3	47.6 58.1		68.6 78.2		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		308.4 317.1		331.5 339.4		357.1 0.8
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> = <i>R</i>	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> = <i>J</i>	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> = <i>G</i>	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	729	649	642	664	701	807	966	1064	1036	953	817	719	790	1072											
<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											
<i>g75b</i>	1370																												

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<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 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 0.0 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 0.0 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 0.0 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 0.0 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 0.0 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 0.0 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	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		65.8 91.4		99.9 103.4		116.8 124.3		124.3 137.9		152.5 159.4		167.8 179.0		201.4 213.2		233.9 239.6		253.6 262.6		289.8 298.7		317.1 322.4		348.3 353.0					
26.9 31.3	47.6 58.1		68.6 78.2		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		308.4 317.1		331.5 339.4		357.1 0.8					
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					
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	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=J</i>	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=G</i>	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																
<i>g25b</i>	1061	1072	2237	2523	2535	2646	2648	3069	3313																									