48 step circle with interpretation *rgb −> olv device hue steps of 1080 standard colours**

*rgb −> olv**	$h_{ab,a}$	*L**	*a*a*	*b*a*	*rgb −> olv**	$h_{ab,a}$	*L**	*a*a*	*b*a*	*rgb −> olv**	$h_{ab,a}$	*L**	*a*a*	*b*a*	*rgb −> olv**	$h_{ab,a}$	*L**	*a*a*	*b*a*	*rgb −> olv**	$h_{ab,a}$	*L**	*a*a*	*b*a*	*rgb −> olv**	$h_{ab,a}$	*L**	*a*a*	*b*a*
1.0 0.0 0.0	33.0	48.1	64.4	41.8	1.0 1.0 0.0	100.4	93.5	−17.5	95.4	0.0 1.0 0.0	143.3	60.2	−59.3	44.2	0.0 1.0 1.0	206.6	56.3	−40.9	−20.5	0.0 0.0 1.0	264.0	38.6	−4.8	−46.2	1.0 0.0 1.0	351.1	48.2	72.1	−11.2
1.0 0.12 0.0	33.9	48.9	63.2	42.5	0.87 1.0 0.0	110.9	82.3	−29.6	77.5	0.0 1.0 0.12	143.9	59.6	−60.0	43.6	0.0 0.87 1.0	224.4	52.4	−36.0	−35.4	0.12 0.0 1.0	265.1	39.2	−4.0	−47.3	1.0 0.0 0.87	354.9	48.2	75.4	−6.6
1.0 0.25 0.0	38.7	49.8	61.3	49.2	0.75 1.0 0.0	121.5	74.0	−39.4	64.2	0.0 1.0 0.25	144.4	59.6	−59.5	42.4	0.0 0.75 1.0	242.1	51.2	−25.4	−48.1	0.25 0.0 1.0	266.8	38.9	−2.6	−47.4	1.0 0.0 0.75	359.6	47.8	73.7	−0.5
1.0 0.37 0.0	46.9	54.8	51.5	55.1	0.62 1.0 0.0	131.8	67.1	−45.9	51.2	0.0 1.0 0.37	147.0	58.6	−60.3	39.1	0.0 0.62 1.0	248.3	48.1	−19.1	−48.1	0.37 0.0 1.0	269.7	37.2	−0.2	−48.6	1.0 0.0 0.62	5.8	48.0	71.1	7.2
1.0 0.5 0.0	60.6	63.0	35.4	63.1	0.5 1.0 0.0	139.7	62.0	−53.2	45.1	0.0 1.0 0.5	150.3	58.2	−59.5	33.9	0.0 0.5 1.0	253.0	45.4	−14.6	−48.1	0.5 0.0 1.0	280.1	36.1	8.3	−46.3	1.0 0.0 0.5	10.6	48.2	69.3	12.9
1.0 0.62 0.0	75.5	72.0	18.5	72.0	0.37 1.0 0.0	141.6	61.1	−55.1	43.6	0.0 1.0 0.62	154.4	57.5	−59.3	28.4	0.0 0.37 1.0	257.5	43.0	−10.6	−47.9	0.62 0.0 1.0	297.4	36.8	21.3	−41.1	1.0 0.0 0.37	16.6	47.9	67.3	20.1
1.0 0.75 0.0	87.7	80.7	3.2	81.1	0.25 1.0 0.0	143.6	60.0	−59.0	43.3	0.0 1.0 0.75	164.0	58.0	−54.6	15.6	0.0 0.25 1.0	262.2	41.1	−6.4	−47.7	0.75 0.0 1.0	316.3	38.9	36.9	−35.2	1.0 0.0 0.25	23.5	48.1	65.5	28.5
1.0 0.87 0.0	96.3	88.8	−10.0	90.8	0.12 1.0 0.0	144.0	59.6	−59.8	43.4	0.0 1.0 0.87	181.2	59.7	−46.3	−0.9	0.0 0.12 1.0	264.7	39.8	−4.3	−47.4	0.87 0.0 1.0	332.3	41.9	51.3	−26.9	1.0 0.0 0.12	29.5	48.3	64.8	36.7

RJGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$:** 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: 12.9, 0.3, 1.4 ***LAB*Wio:*** 97.2, −0.8, 1.8

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	2	3	5	6	8	10	18	21	23	24	26	35	37	38	41
16.6 23.5	33.9 38.7	38.7 46.9	60.6 75.5	75.5 87.7	96.3 100.4	110.9 121.5	143.9 144.4	150.3 154.4	164.0 181.2	181.2 206.6	224.4 242.1	266.8 269.7	280.1 297.4	297.4 316.3	351.1 354.9
29.5 33.0	46.9 60.6	60.6 75.5	87.7 96.3	96.3 100.4	110.9 121.5	131.8 139.7	147.0 150.3	164.0 181.2	206.6 224.4	224.4 242.1	248.3 253.0	280.1 297.4	316.3 332.3	332.3 351.1	359.6 5.8
0.323	0.423	0.871	0.006	0.533	0.891	0.553	0.103	0.812	0.329	0.58	0.354	0.192	0.144	0.765	0.451
651 650	657 666	666 675	684 693	693 702	711 720	639 558	73 74	76 77	78 79	79 80	71 62	170 251	332 413	413 494	656 655
649 648	675 684	684 693	702 711	711 720	639 558	477 396	75 76	78 79	80 71	71 62	53 44	332 413	494 575	575 656	654 653
507 506	531 558	558 585	612 639	639 666	693 720	477 234	217 218	220 221	222 223	223 224	197 170	494 17	260 503	503 26	512 511
505 504	585 612	612 639	666 693	693 720	477 234	711 468	219 220	222 223	224 197	197 170	143 116	260 503	26 269	269 512	510 509

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

																				X	*Y*	*Z*	*x*	*y*	*L**	*a**	*b**	*L*a*	*a*a*	*b*a*	*C*ab,a*	$h_{ab,a}$	*rgb −> rgb**
r00j=R	720	651	600	568	553	552	564	563	559	602	706	787	779	682	527	414	395	417																
	399	391	677	1977	4230	6315	7667	8384	8734	8893	8968	8983	8990	8990	8998	9015	9006	9010		30.4	16.9	6.4	0.564	0.315	48.2	65.1	32.6	48.2	65.2	31.0	72.2	**25.4**	**1.00 0.00 0.00**
r25j	333	262	219	196	183	180	183	197	230	319	559	874	1047	1017	852	711	685	716																
	688	672	1034	2497	4787	6767	7986	8606	8904	9041	9105	9115	9119	9118	9123	9140	9131	9133		32.5	20.0	3.4	0.581	0.357	51.8	57.3	53.7	51.8	57.4	52.0	77.5	**42.1**	**1.00 0.25 0.00**
r50j	369	292	236	209	196	194	200	214	256	385	785	1454	1993	2167	2053	1894	1869	1915																
	1874	1851	2303	3856	5920	7494	8377	8803	9005	9100	9148	9148	9147	9143	9148	9163	9150	9153		39.5	30.3	4.8	0.529	0.406	61.9	37.2	63.7	61.9	37.5	62.1	72.5	**58.8**	**1.00 0.50 0.00**
r75j	429	330	264	231	214	212	221	241	294	473	1051	2109	3108	3608	3659	3557	3550	3600																
	3559	3540	3971	5330	6956	8083	8676	8952	9086	9152	9184	9177	9176	9169	9172	9189	9174	9179		47.8	43.7	6.4	0.487	0.446	72.0	18.0	73.7	72.0	18.5	72.0	74.4	**75.5**	**1.00 0.75 0.00**
j00g=J	457	333	263	231	213	205	215	239	312	568	1415	3032	4735	5838	6279	6365	6417	6468																
	6445	6450	6711	7470	8258	8737	8976	9085	9147	9187	9206	9194	9188	9178	9179	9192	9180	9186		60.4	65.4	8.6	0.449	0.486	84.7	−4.0	87.6	84.7	−3.4	85.8	85.9	**92.2**	**1.00 1.00 0.00**
j25g	391	313	271	244	229	231	244	278	367	668	1634	3523	5613	7027	7554	7489	7217	6867																
	6519	6296	6140	6041	5951	5889	5868	5855	5856	5888	5949	5979	5963	5922	5860	5804	5781	5832		48.4	62.9	10.0	0.398	0.518	83.4	−29.2	80.9	83.4	−28.5	79.1	84.1	**109.8**	**0.75 1.00 0.00**
j50g	329	295	288	278	267	268	290	336	430	728	1633	3366	5169	6147	6193	5705	5079	4434																
	3856	3481	3257	3124	3009	2919	2877	2851	2841	2877	2953	3004	2989	2938	2853	2770	2749	2819		26.7	40.9	9.9	0.344	0.527	70.1	−43.6	58.5	70.1	−43.1	56.8	71.3	**127.2**	**0.50 1.00 0.00**
j75g	206	208	209	201	194	199	220	264	361	659	1570	3245	4825	5462	5199	4482	3681	2908																
	2252	1839	1612	1481	1370	1285	1241	1219	1206	1238	1308	1361	1348	1302	1223	1147	1135	1197		14.2	27.6	8.7	0.281	0.545	59.5	−59.9	43.8	59.5	−59.6	42.1	73.0	**144.7**	**0.25 1.00 0.00**
g00b=G	372	439	557	656	690	753	879	1038	1253	1711	2721	4167	5229	5414	4928	4128	3304	2544																
	1926	1556	1360	1250	1159	1091	1056	1036	1026	1047	1099	1139	1128	1091	1030	974	964	1018		13.7	25.8	17.1	0.242	0.455	57.9	−55.8	19.4	57.9	−55.5	17.8	58.3	**162.2**	**0.00 1.00 0.00**
g25b	685	935	1330	1697	1849	2069	2415	2745	3030	3498	4334	5309	5807	5636	5008	4155	3304	2524																
	1894	1522	1325	1216	1127	1059	1025	1006	995	1015	1064	1102	1090	1056	996	942	936	988		16.3	26.9	33.5	0.213	0.35	58.9	−44.7	−5.8	58.9	−44.4	−7.4	45.0	**189.5**	**0.00 1.00 0.50**
g50b	581	941	1567	2203	2502	2906	3513	4037	4345	4723	5251	5700	5709	5252	4470	3529	2627	1833																
	1226	887	721	636	568	521	497	484	477	490	524	552	544	520	482	450	453	491		13.8	22.0	44.3	0.172	0.274	54.0	−38.8	−27.4	54.0	−38.6	−29.1	48.3	**217.0**	**0.00 1.00 1.00**
g75b	493	916	1760	2706	3195	3869	4932	5798	6080	6180	6109	5866	5437	4801	3956	3000	2114	1357																
	808	522	398	342	301	270	256	248	245	254	274	294	290	274	252	239	246	279		13.8	18.8	57.7	0.153	0.208	50.5	−23.5	−47.1	50.5	−23.4	−48.8	54.1	**244.3**	**0.00 0.50 1.00**
b00r=B	461	760	1375	2029	2365	2801	3412	3766	3710	3530	3252	2933	2617	2236	1743	1261	892	602																
	378	273	268	334	373	369	360	353	348	360	391	417	412	389	356	328	331	365		9.1	9.4	35.7	0.168	0.174	36.8	1.5	−46.8	36.8	1.4	−48.3	48.4	**271.7**	**0.00 0.00 1.00**
b25r	900	1233	1754	2233	2471	2767	3108	3196	2999	2716	2378	2052	1791	1519	1187	897	715	579																
	444	373	440	744	1083	1250	1314	1333	1341	1375	1443	1492	1482	1441	1370	1302	1290	1352		12.1	9.5	30.1	0.235	0.184	37.0	23.4	−38.8	37.0	23.4	−40.4	46.7	**300.1**	**0.50 0.00 1.00**
b50r	1540	1810	2181	2491	2650	2825	2982	2899	2608	2260	1882	1544	1308	1086	830	635	551	509																
	435	392	567	1324	2358	3034	3351	3481	3537	3603	3696	3756	3746	3695	3611	3523	3505	3575		19.3	11.9	27.2	0.329	0.203	41.0	47.7	−27.6	41.0	47.8	−29.2	56.0	**328.5**	**1.00 0.00 1.00**
b75r	1964	1984	2059	2129	2176	2231	2243	2068	1785	1482	1176	913	739	585	422	318	303	322																
	307	306	575	1902	4248	6405	7796	8532	8889	9051	9124	9137	9143	9143	9151	9168	9159	9163		32.8	16.8	19.4	0.475	0.243	48.0	74.8	−2.2	48.0	75.0	−3.8	75.1	**357.0**	**1.00 0.00 0.50**

5 step equidistant grey scale with intended lightness: *L = 12.9, 34.0, 55.1, 76.1, 97.2**

n000w=N	161	156	156	158	158	158	161	158	162	162	162	166	167	168	168	170	170	172																
	172	174	176	176	178	179	180	182	184	186	188	190	192	194	198	198	200	206		1.6	1.7	1.7	0.322	0.336	13.9	0.3	1.2	**13.9**	0.0	−0.2	0.2	266.4	**0.00 0.00 0.00**
n025w	748	789	784	795	795	794	795	795	798	798	799	801	801	802	804	802	802	801																
	800	802	801	802	802	803	807	810	813	815	819	821	821	823	826	831	831	837		7.6	8.0	8.6	0.313	0.329	34.0	0.0	0.2	**34.0**	0.0	−1.3	1.3	267.9	**0.25 0.25 0.25**
n050w	2104	2176	2219	2241	2259	2270	2281	2288	2299	2299	2303	2307	2309	2310	2313	2307	2307	2304																
	2296	2302	2297	2297	2295	2297	2303	2307	2313	2320	2324	2322	2321	2323	2323	2328	2327	2335		21.8	23.0	24.9	0.313	0.33	55.1	−0.2	0.2	**55.1**	0.0	−1.3	1.3	270.7	**0.50 0.50 0.50**
n075w	4338	4550	4656	4745	4801	4849	4889	4924	4961	4970	4982	4998	5007	5015	5029	5020	5023	5020																
	5006	5018	5010	5008	5005	5011	5024	5032	5046	5061	5071	5068	5064	5061	5065	5074	5069	5081		47.4	50.1	53.5	0.314	0.331	76.1	−0.4	0.9	**76.1**	0.0	−0.7	0.7	276.4	**0.75 0.75 0.75**
n100w=W	7610	8074	8337	8564	8724	8859	8982	9077	9168	9208	9248	9290	9320	9342	9372	9357	9360	9356																
	9333	9352	9335	9329	9318	9330	9358	9375	9401	9423	9435	9417	9405	9393	9395	9407	9390	9402		88.2	93.4	98.7	0.314	0.333	97.3	−0.9	1.8	**97.3**	0.0	0.0	0.0	150.4	**1.00 1.00 1.00**