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	40.0	50.4	76.9	64.5	1.0 1.0 0.0	102.8	92.6	−20.7	90.7	0.0 1.0 0.0	136.0	83.6	−82.7	79.8	0.0 1.0 1.0	196.3	86.8	−46.1	−13.5	0.0 0.0 1.0	306.2	30.3	76.0	−103.5	1.0 0.0 1.0	328.2	57.2	94.3	−58.4
1.0 0.12 0.0	41.3	51.5	73.9	64.9	0.87 1.0 0.0	110.5	90.4	−33.1	88.1	0.0 1.0 0.12	137.0	83.6	−82.1	76.6	0.0 0.87 1.0	219.8	77.9	−32.3	−27.0	0.12 0.0 1.0	306.6	31.0	76.2	−102.4	1.0 0.0 0.87	334.0	55.6	90.3	−43.9
1.0 0.25 0.0	44.6	54.0	66.7	65.9	0.75 1.0 0.0	117.6	88.5	−44.9	85.8	0.0 1.0 0.25	139.3	83.8	−80.5	69.1	0.0 0.75 1.0	247.2	69.1	−17.0	−40.7	0.25 0.0 1.0	307.5	32.6	76.8	−99.8	1.0 0.0 0.75	341.6	54.2	86.7	−28.6
1.0 0.37 0.0	50.7	58.2	55.4	67.9	0.62 1.0 0.0	123.6	86.9	−55.8	83.9	0.0 1.0 0.37	143.2	84.0	−77.8	58.1	0.0 0.62 1.0	269.8	60.3	−0.1	−54.6	0.37 0.0 1.0	309.2	35.1	77.9	−95.5	1.0 0.0 0.62	351.4	53.0	83.6	−12.6
1.0 0.5 0.0	59.7	63.6	41.3	71.0	0.5 1.0 0.0	128.3	85.7	−65.2	82.4	0.0 1.0 0.5	148.6	84.3	−73.7	44.9	0.0 0.5 1.0	285.0	51.7	18.3	−68.3	0.5 0.0 1.0	311.6	38.5	79.8	−89.7	1.0 0.0 0.5	2.9	52.0	81.1	4.1
1.0 0.62 0.0	71.0	70.1	25.7	75.0	0.37 1.0 0.0	131.8	84.7	−72.8	81.2	0.0 1.0 0.62	155.8	84.7	−68.5	30.6	0.0 0.37 1.0	294.8	43.8	37.6	−81.2	0.62 0.0 1.0	314.8	42.7	82.5	−82.7	1.0 0.0 0.37	15.2	51.3	79.2	21.6
1.0 0.75 0.0	82.9	77.2	9.8	79.7	0.25 1.0 0.0	134.1	84.1	−78.2	80.5	0.0 1.0 0.75	165.6	85.3	−62.0	15.9	0.0 0.25 1.0	301.1	37.1	55.9	−92.3	0.75 0.0 1.0	318.8	47.2	85.8	−75.1	1.0 0.0 0.25	26.7	50.8	77.9	39.2
1.0 0.87 0.0	93.8	84.8	−5.7	85.0	0.12 1.0 0.0	135.5	83.7	−81.4	80.0	0.0 1.0 0.87	178.8	86.0	−54.5	1.0	0.0 0.12 1.0	304.8	32.4	69.5	−100.0	0.87 0.0 1.0	323.3	52.1	89.8	−66.9	1.0 0.0 0.12	35.4	50.6	77.2	54.9

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: 0.0, 0.0, 0.0 ***LAB*Wio:*** 95.4, 0.0, 0.0

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
45	1	3	5	6	8	11	19	21	23	24	25	27	29	40	43
2.9 15.2	40.0 41.3	44.6 50.7	59.7 71.0	71.0 82.9	93.8 102.8	117.6 123.6	139.3 143.2	148.6 155.8	165.6 178.8	178.8 196.3	196.3 219.8	247.2 269.8	285.0 294.8	323.3 328.2	341.6 351.4
26.7 35.4	44.6 50.7	59.7 71.0	82.9 93.8	93.8 102.8	110.5 117.6	128.3 131.8	148.6 155.8	165.6 178.8	196.3 219.8	219.8 247.2	247.2 269.8	285.0 294.8	301.1 304.8	334.0 341.6	2.9 15.2
0.892	0.259	0.9	0.383	0.855	0.897	0.768	0.279	0.649	0.613	0.878	0.894	0.124	0.838	0.064	0.488
652 651	648 657	666 675	684 693	693 702	711 720	558 477	74 75	76 77	78 79	79 80	80 71	62 53	44 35	575 656	654 653
650 649	666 675	684 693	702 711	711 720	639 558	396 315	76 77	78 79	80 71	71 62	62 53	44 35	26 17	655 654	652 651
508 507	504 531	558 585	612 639	639 666	693 720	234 711	218 219	220 221	222 223	223 224	224 197	170 143	116 89	269 512	510 509
506 505	558 585	612 639	666 693	693 720	477 234	468 225	220 221	222 223	224 197	197 170	170 143	116 89	62 35	511 510	508 507

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

Code	*iton*	*index*	*X*	*Y*	*Z*	*x*	*y*	*L**	a^*_a	*b**	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	*rgb −> olv**	*X*	*Y*	*Z*	*x*	*y*	*L**	*a**	*b**	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	*rgb −> rgb**
r00j=R	651	507	38.3	19.5	11.4	0.5520	.552	51.3	79.2	21.6	51.3	79.2	21.6	82.1	**15.2**	**1.0, 0.0, 0.37**														
	650	506	37.3	19.1	5.9	0.5970	.597	50.8	77.9	39.2	50.8	77.9	39.2	87.2	**26.7**	**1.0, 0.0, 0.25**	37.4	19.1	6.5	0.592	0.303	50.9	78.1	37.1	50.9	78.1	37.1	86.4	**25.4**	**1.00 0.00 0.00**
r25j	657	531	36.9	19.7	1.8	0.6310	.631	51.5	73.9	64.9	51.5	73.9	64.9	98.3	**41.3**	**1.0, 0.12, 0.0**														
	666	558	38.1	22.0	2.2	0.610	.61	54.0	66.7	65.9	54.0	66.7	65.9	93.8	**44.6**	**1.0, 0.25, 0.0**	37.2	20.3	1.9	0.625	0.341	52.2	71.9	65.2	52.2	71.9	65.2	97.1	**42.1**	**1.00 0.25 0.00**
r50j	675	585	40.2	26.1	2.9	0.5790	.579	58.2	55.4	67.9	58.2	55.4	67.9	87.7	**50.7**	**1.0, 0.37, 0.0**														
	684	612	43.3	32.3	3.9	0.5430	.543	63.6	41.3	71.0	63.6	41.3	71.0	82.2	**59.7**	**1.0, 0.5, 0.0**	42.9	31.7	3.8	0.546	0.403	63.1	42.7	70.7	63.1	42.7	70.7	82.6	**58.8**	**1.00 0.50 0.00**
r75j	693	639	47.5	40.9	5.3	0.5060	.506	70.1	25.7	75.0	70.1	25.7	75.0	79.3	**71.0**	**1.0, 0.62, 0.0**														
	702	666	53.0	51.9	7.2	0.4720	.472	77.2	9.8	79.7	77.2	9.8	79.7	80.4	**82.9**	**1.0, 0.75, 0.0**	49.5	44.7	6.0	0.493	0.446	72.7	19.7	76.7	72.7	19.7	76.7	79.2	**75.5**	**1.00 0.75 0.00**
j00g=J	702	666	53.0	51.9	7.2	0.4720	.472	77.2	9.8	79.7	77.2	9.8	79.7	80.4	**82.9**	**1.0, 0.75, 0.0**														
	711	693	59.9	65.6	9.5	0.4430	.443	84.8	−5.7	85.0	84.8	−5.7	85.0	85.2	**93.8**	**1.0, 0.87, 0.0**	58.8	63.3	9.1	0.447	0.482	83.6	−3.4	84.2	83.6	−3.4	84.2	84.3	**92.3**	**1.00 1.00 0.00**
j25g	720	720	68.2	82.1	12.2	0.4190	.419	92.6	−20.7	90.7	92.6	−20.7	90.7	93.0	**102.8**	**1.0, 1.0, 0.0**														
	639	477	58.6	77.2	11.8	0.3970	.397	90.4	−33.1	88.1	90.4	−33.1	88.1	94.1	**110.5**	**0.87, 1.0, 0.0**	59.9	78.1	11.9	0.399	0.521	90.8	−31.8	88.5	90.8	−31.8	88.5	94.0	**109.7**	**0.75 1.00 0.00**
j50g	477	711	44.4	69.9	11.1	0.3530	.353	86.9	−55.8	83.9	86.9	−55.8	83.9	100.7	**123.6**	**0.62, 1.0, 0.0**														
	396	468	39.4	67.3	10.9	0.3350	.335	85.7	−65.2	82.4	85.7	−65.2	82.4	105.1	**128.3**	**0.5, 1.0, 0.0**	40.6	67.9	10.9	0.339	0.568	85.9	−63.0	82.7	85.9	−63.0	82.7	104.0	**127.2**	**0.50 1.00 0.00**
j75g	75	219	33.5	64.1	20.3	0.2840	.284	84.0	−77.8	58.1	84.0	−77.8	58.1	97.1	**143.2**	**0.0, 1.0, 0.37**														
	76	220	35.0	64.7	28.5	0.2730	.273	84.3	−73.7	44.9	84.3	−73.7	44.9	86.4	**148.6**	**0.0, 1.0, 0.5**	33.9	64.2	22.6	0.281	0.531	84.1	−76.6	54.1	84.1	−76.6	54.1	93.8	**144.7**	**0.25 1.00 0.00**
g00b=G	77	221	37.2	65.5	39.8	0.260	.26	84.7	−68.5	30.6	84.7	−68.5	30.6	75.0	**155.8**	**0.0, 1.0, 0.62**														
	78	222	40.0	66.7	54.5	0.2480	.248	85.3	−62.0	15.9	85.3	−62.0	15.9	64.0	**165.6**	**0.0, 1.0, 0.75**	39.0	66.3	49.5	0.252	0.428	85.1	−64.2	20.5	85.1	−64.2	20.5	67.4	**162.2**	**0.00 1.00 0.00**
g25b	79	223	43.4	68.0	72.7	0.2350	.235	86.0	−54.5	1.0	86.0	−54.5	1.0	54.5	**178.8**	**0.0, 1.0, 0.87**														
	80	224	47.6	69.7	94.7	0.2240	.224	86.8	−46.1	−13.5	86.8	−46.1	−13.5	48.1	**196.3**	**0.0, 1.0, 1.0**	46.9	70.3	88.0	0.228	0.342	87.1	−49.5	−8.4	87.1	−49.5	−8.4	50.2	**189.6**	**0.00 1.00 0.50**
g50b	80	224	47.6	69.7	94.7	0.2240	.224	86.8	−46.1	−13.5	86.8	−46.1	−13.5	48.1	**196.3**	**0.0, 1.0, 1.0**														
	71	197	39.3	53.2	91.9	0.2130	.213	77.9	−32.3	−27.0	77.9	−32.3	−27.0	42.1	**219.8**	**0.0, 0.87, 1.0**	40.4	55.1	92.7	0.214	0.292	79.1	−33.9	−25.6	79.1	−33.9	−25.6	42.5	**217.0**	**0.00 1.00 1.00**
g75b	71	197	39.3	53.2	91.9	0.2130	.213	77.9	−32.3	−27.0	77.9	−32.3	−27.0	42.1	**219.8**	**0.0, 0.87, 1.0**														
	62	170	32.5	39.5	89.7	0.2010	.201	69.1	−17.0	−40.7	69.1	−17.0	−40.7	44.1	**247.2**	**0.0, 0.75, 1.0**	33.2	40.9	89.9	0.202	0.249	70.1	−18.8	−39.1	70.1	−18.8	−39.1	43.4	**244.2**	**0.00 0.50 1.00**
b00r=B	53	143	27.0	28.4	87.8	0.1880	.188	60.3	−0.1	−54.6	60.3	−0.1	−54.6	54.6	**269.8**	**0.0, 0.62, 1.0**														
	44	116	22.7	19.9	86.4	0.1760	.176	51.7	18.3	−68.3	51.7	18.3	−68.3	70.7	**285.0**	**0.0, 0.5, 1.0**	26.5	27.4	87.7	0.187	0.193	59.3	1.7	−56.0	59.3	1.7	−56.0	56.1	**271.7**	**0.00 0.00 1.00**
b25r	35	89	19.6	13.7	85.4	0.1650	.165	43.8	37.6	−81.2	43.8	37.6	−81.2	89.5	**294.8**	**0.0, 0.37, 1.0**														
	26	62	17.6	9.6	84.7	0.1570	.157	37.1	55.9	−92.3	37.1	55.9	−92.3	107.9	**301.1**	**0.0, 0.25, 1.0**	17.9	10.2	84.8	0.158	0.09	38.3	52.5	−90.3	38.3	52.5	−90.3	104.4	**300.1**	**0.50 0.00 1.00**
b50r	656	512	52.5	25.2	85.9	0.320	.32	57.2	94.3	−58.4	57.2	94.3	−58.4	110.9	**328.2**	**1.0, 0.0, 1.0**														
	655	511	48.3	23.5	63.9	0.3550	.355	55.6	90.3	−43.9	55.6	90.3	−43.9	100.4	**334.0**	**1.0, 0.0, 0.87**	52.5	25.2	84.6	0.323	0.155	57.3	94.2	−57.4	57.3	94.2	−57.4	110.4	**328.6**	**1.00 0.00 1.00**
b75r	653	509	42.1	21.0	31.0	0.4460	.446	53.0	83.6	−12.6	53.0	83.6	−12.6	84.6	**351.4**	**1.0, 0.0, 0.62**														
	652	508	39.9	20.2	19.7	0.50	.5	52.0	81.1	4.1	52.0	81.1	4.1	81.2	**2.9**	**1.0, 0.0, 0.5**	40.9	20.5	24.9	0.473	0.238	52.5	82.3	−4.2	52.5	82.3	−4.2	82.4	**357.0**	**1.00 0.00 0.50**

5 step equidistant grey scale with intended lightness: *L = 0.0, 23.8, 47.7, 71.5, 95.4**

n000w=N	999	999	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0, 0.0, 0.0**														
	999	999	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.0, 0.0, 0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	**0.00 0.00 0.00**
n025w	1000	1000	1.2	1.2	1.3	0.312	0.312	11.0	0.0	0.0	11.0	0.0	0.0	0.0	**325.1**	**0.12, 0.12, 0.12**														
	1001	1001	4.2	4.5	4.9	0.312	0.312	25.2	0.0	0.0	25.2	0.0	0.0	0.0	**325.4**	**0.25, 0.25, 0.25**	3.8	4.0	4.4	0.312	0.329	23.8	0.0	0.0	**23.8**	0.0	0.0	0.0	325.3	**0.25 0.25 0.25**
n050w	1002	1002	9.7	10.2	11.1	0.312	0.312	38.3	0.0	0.0	38.3	0.0	0.0	0.0	**325.2**	**0.37, 0.37, 0.37**														
	1003	1003	18.0	18.9	20.6	0.312	0.312	50.6	0.0	0.0	50.6	0.0	0.0	0.0	**325.0**	**0.5, 0.5, 0.5**	15.7	16.6	18.0	0.312	0.329	47.7	0.0	0.0	**47.7**	0.0	0.0	0.0	325.1	**0.50 0.50 0.50**
n075w	1004	1004	29.3	30.8	33.6	0.312	0.312	62.4	0.0	0.0	62.4	0.0	0.0	0.0	**325.3**	**0.62, 0.62, 0.62**														
	1005	1005	43.9	46.2	50.4	0.312	0.312	73.7	0.0	0.0	73.7	0.0	0.0	0.0	**324.2**	**0.75, 0.75, 0.75**	40.7	42.8	46.6	0.312	0.329	71.4	0.0	0.0	**71.4**	0.0	0.0	0.0	325.1	**0.75 0.75 0.75**
n100w=W	1007	1007	84.1	88.5	96.4	0.312	0.312	95.4	0.0	0.0	95.4	0.0	0.0	0.0	**0.0**	**1.0, 1.0, 1.0**														
	1007	1007	84.1	88.5	96.4	0.312	0.312	95.4	0.0	0.0	95.4	0.0	0.0	0.0	**0.0**	**1.0, 1.0, 1.0**	84.1	88.5	96.4	0.312	0.329	95.4	0.0	0.0	**95.4**	0.0	0.0	0.0	0.0	**1.00 1.00 1.00**