

See original or copy: <http://web.me.com/klaus.richter/KE64/KE64L0NP.PDF> / .PS  
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20100801-KE64/KE64L0NP.PDF /.PS  
application for measurement of printer or monitor systems  
TUB material: code=rh4ta

n <sub>rgb</sub>	rgb -> rgb*	h <sub>rgb</sub>	[L*, C* <sub>ab</sub> , h <sub>ab</sub> ] <sub>M,a,e</sub>	n <sub>rgb</sub>	rgb -> rgb*	h <sub>rgb</sub>	[L*, C* <sub>ab</sub> , h <sub>ab</sub> ] <sub>M,a,e</sub>	n <sub>rgb</sub>	rgb -> rgb*	h <sub>rgb</sub>	[L*, C* <sub>ab</sub> , h <sub>ab</sub> ] <sub>M,a,e</sub>	n <sub>rgb</sub>	rgb -> rgb*	h <sub>rgb</sub>	[L*, C* <sub>ab</sub> , h <sub>ab</sub> ] <sub>M,a,e</sub>	n <sub>rgb</sub>	rgb -> rgb*	h <sub>rgb</sub>	[L*, C* <sub>ab</sub> , h <sub>ab</sub> ] <sub>M,a,e</sub>
0	0.0	0.0	51.73 83.56 357.0	81	0.125	0.0	30.0 50.49 87.88 25.5	162	0.25	0.0	30.0 50.49 87.89 25.5	243	0.375	0.0	30.0 50.49 87.89 25.5				
1	0.0	0.125	58.86 59.98 271.8	82	0.125	0.125	330.0 56.14 111.42 328.6	163	0.25	0.125	0.0 51.73 83.56 357.0	244	0.375	0.125	10.9 51.14 82.0 7.4				
2	0.0	0.25	58.87 59.96 271.8	83	0.125	0.25	300.0 37.1 111.66 300.2	164	0.25	0.25	330.0 56.15 111.44 328.6	245	0.375	0.25	349.1 52.61 88.87 346.7				
3	0.0	0.375	58.87 59.95 271.8	84	0.125	0.375	289.1 47.13 84.48 289.9	165	0.25	0.375	310.9 36.97 126.32 310.5	246	0.375	0.375	330.0 56.15 111.44 328.6				
4	0.0	0.5	58.88 59.95 271.7	85	0.125	0.5	283.9 50.87 75.96 284.9	166	0.25	0.5	300.0 37.11 111.63 300.2	247	0.375	0.5	316.1 43.78 120.43 315.4				
5	0.0	0.625	58.88 59.95 271.7	86	0.125	0.625	280.9 53.0 71.13 282.1	167	0.25	0.625	293.4 43.52 93.77 293.9	248	0.375	0.625	306.6 29.92 134.6 306.4				
6	0.0	0.75	58.88 59.94 271.7	87	0.125	0.75	279.0 54.05 69.13 280.2	168	0.25	0.75	289.1 47.13 84.46 289.9	249	0.375	0.75	300.0 37.12 111.61 300.2				
7	0.0	0.875	58.88 59.94 271.7	88	0.125	0.875	277.6 54.78 67.74 278.9	169	0.25	0.875	286.1 49.29 79.55 287.0	250	0.375	0.875	295.3 41.84 98.27 295.7				
8	0.0	1.0	58.88 59.94 271.7	89	0.125	1.0	276.6 55.32 66.71 278.0	170	0.25	1.0	283.9 50.87 75.95 284.9	251	0.375	1.0	291.8 44.98 89.84 292.4				
9	0.0	1.125	85.38 66.25 162.2	90	0.125	1.125	90.0 83.42 100.03 92.3	171	0.25	1.125	0.0 51.73 83.56 357.0	252	0.375	1.125	49.1 50.65 109.39 46.7				
10	0.0	1.25	79.69 45.34 217.0	91	0.125	1.25	0.0 51.73 83.56 357.0	172	0.25	1.25	0.0 50.49 87.88 25.5	253	0.375	1.25	30.0 50.49 87.89 25.5				
11	0.0	1.375	70.01 46.71 244.4	92	0.125	1.375	270.0 58.86 59.98 271.8	173	0.25	1.375	330.0 56.14 111.42 328.6	254	0.375	1.375	51.73 83.56 357.0				
12	0.0	1.5	66.53 49.04 254.3	93	0.125	1.5	270.0 58.87 59.96 271.8	174	0.25	1.5	300.0 37.1 111.66 300.2	255	0.375	1.5	330.0 56.15 111.44 328.6				
13	0.0	1.625	64.49 51.87 259.1	94	0.125	1.625	270.0 58.87 59.95 271.8	175	0.25	1.625	270.0 58.87 59.95 271.8	256	0.375	1.625	310.9 36.97 126.32 310.5				
14	0.0	1.75	63.31 53.5 261.8	95	0.125	1.75	270.0 58.88 59.95 271.7	176	0.25	1.75	270.0 58.88 59.95 271.7	257	0.375	1.75	300.0 37.11 111.63 300.2				
15	0.0	1.875	62.61 55.34 265.7	96	0.125	1.875	270.0 58.88 59.95 271.7	177	0.25	1.875	270.0 58.88 59.95 271.7	258	0.375	1.875	293.4 43.52 93.77 293.9				
16	0.0	2.0	62.01 55.3 264.8	97	0.125	2.0	270.0 58.88 59.94 271.7	178	0.25	2.0	270.0 58.88 59.94 271.7	259	0.375	2.0	286.1 49.29 79.55 287.0				
17	0.0	2.125	61.51 55.84 265.7	98	0.125	2.125	270.0 58.88 59.94 271.7	179	0.25	2.125	270.0 58.88 59.94 271.7	260	0.375	2.125	289.1 47.13 84.46 289.9				
18	0.0	2.25	60.24 56.24 162.2	99	0.125	2.25	120.0 85.02 122.25 127.2	180	0.25	2.25	0.0 51.73 83.56 357.0	261	0.375	2.25	70.9 67.58 92.33 71.0				
19	0.0	2.375	58.86 59.98 271.8	100	0.125	2.375	150.0 85.38 66.23 162.2	181	0.25	2.375	0.0 50.49 87.88 25.5	262	0.375	2.375	59.6 96.48 58.9 96.4				
20	0.0	2.5	58.87 59.96 271.8	101	0.125	2.5	210.0 79.6 45.34 217.0	182	0.25	2.5	0.0 51.73 83.56 357.0	263	0.375	2.5	30.0 50.49 87.89 25.5				
21	0.0	2.625	58.87 59.95 271.8	102	0.125	2.625	240.0 70.01 46.71 244.4	183	0.25	2.625	330.0 56.15 111.44 328.6	264	0.375	2.625	56.14 111.42 328.6				
22	0.0	2.75	58.87 59.95 271.8	103	0.125	2.75	250.9 66.53 49.04 254.3	184	0.25	2.75	270.0 58.87 59.96 271.8	265	0.375	2.75	300.0 37.1 111.66 300.2				
23	0.0	2.875	58.87 59.95 271.8	104	0.125	2.875	259.1 64.49 51.87 259.1	185	0.25	2.875	270.0 58.87 59.95 271.8	266	0.375	2.875	289.1 47.13 84.46 289.9				
24	0.0	3.0	58.88 59.94 271.7	105	0.125	3.0	259.1 63.31 53.5 261.8	186	0.25	3.0	270.0 58.88 59.95 271.7	267	0.375	3.0	50.87 75.96 284.9				
25	0.0	3.125	58.88 59.94 271.7	106	0.125	3.125	263.6 62.51 54.56 263.6	187	0.25	3.125	270.0 58.88 59.95 271.7	268	0.375	3.125	53.0 71.13 281.2				
26	0.0	3.25	58.88 59.94 271.7	107	0.125	3.25	262.4 62.01 55.3 264.8	188	0.25	3.25	270.0 58.88 59.94 271.7	269	0.375	3.25	54.05 69.13 280.2				
27	0.0	3.375	85.38 66.24 162.2	108	0.125	3.375	0.0 130.9 84.32 102.2	189	0.25	3.375	0.0 109.1 88.53 112.38	270	0.375	3.375	90.0 83.46 100.07 92.3				
28	0.0	3.5	86.24 55.24 179.7	109	0.125	3.5	150.0 85.38 66.24 162.2	190	0.25	3.5	120.0 85.02 122.25 127.2	271	0.375	3.5	83.45 100.06 92.3				
29	0.0	3.625	86.0 47.76 199.5	110	0.125	3.625	180.0 86.72 51.09 189.6	191	0.25	3.625	150.0 85.38 66.23 162.2	272	0.375	3.625	90.0 83.42 100.03 92.3				
30	0.0	3.75	86.0 47.76 199.5	111	0.125	3.75	210.0 79.7 45.34 217.0	192	0.25	3.75	210.0 79.6 45.34 217.0	273	0.375	3.75	51.73 83.56 357.0				
31	0.0	3.875	86.0 47.76 199.5	112	0.125	3.875	229.1 73.46 44.48 234.4	193	0.25	3.875	240.0 70.01 46.71 244.4	274	0.375	3.875	58.86 59.98 271.8				
32	0.0	4.0	86.0 47.76 199.5	113	0.125	4.0	240.0 70.01 46.71 244.4	194	0.25	4.0	250.9 66.53 49.04 254.3	275	0.375	4.0	58.87 59.96 271.8				
33	0.0	4.125	86.0 47.76 199.5	114	0.125	4.125	246.6 67.92 48.06 250.4	195	0.25	4.125	259.1 64.49 51.87 259.1	276	0.375	4.125	58.87 59.95 271.8				
34	0.0	4.25	86.0 47.76 199.5	115	0.125	4.25	250.9 66.54 49.03 254.3	196	0.25	4.25	270.0 58.88 59.94 271.7	277	0.375	4.25	58.88 59.95 271.7				
35	0.0	4.375	86.0 47.76 199.5	116	0.125	4.375	253.9 65.36 50.67 257.0	197	0.25	4.375	270.0 58.88 59.94 271.7	278	0.375	4.375	58.88 59.95 271.7				
36	0.0	4.5	86.0 47.76 199.5	117	0.125	4.5	136.1 84.59 89.06 146.0	198	0.25	4.5	120.0 85.02 122.27 127.3	279	0.375	4.5	103.9 90.36 110.81 108.5				
37	0.0	4.625	86.0 47.76 199.5	118	0.125	4.625	150.0 85.38 66.23 162.2	199	0.25	4.625	150.0 85.38 66.24 162.2	280	0.375	4.625	112.38 114.6				
38	0.0	4.75	86.0 47.76 199.5	119	0.125	4.75	169.1 86.24 55.24 179.7	200	0.25	4.75	180.0 86.72 51.09 189.6	281	0.375	4.75	85.02 122.25 127.2				
39	0.0	4.875	86.0 47.76 199.5	120	0.125	4.875	190.9 86.0 47.76 199.5	201	0.25	4.875	210.0 79.7 45.34 217.0	282	0.375	4.875	150.0 85.38 66.23 162.2				
40	0.0	5.0	86.0 47.76 199.5	121	0.125	5.0	210.0 79.7 45.34 217.0	202	0.25	5.0	229.1 73.46 44.48 234.4	283	0.375	5.0	180.0 86.72 51.09 189.6				
41	0.0	5.125	86.0 47.76 199.5	122	0.125	5.125	223.9 75.12 43.58 229.7	203	0.25	5.125	240.0 70.01 46.71 244.4	284	0.375	5.125	210.0 79.7 45.34 217.0				
42	0.0	5.25	86.0 47.76 199.5	123	0.125	5.25	233.4 72.1 45.36 238.4	204	0.25	5.25	250.9 66.53 49.04 254.3	285	0.375	5.25	240.0 70.01 46.71 244.4				
43	0.0	5.375	86.0 47.76 199.5	124	0.125	5.375	240.0 70.01 46.71 244.4	205	0.25	5.375	259.1 64.49 51.87 259.1	286	0.375	5.375	250.9 66.53 49.04 254.3				
44	0.0	5.5	86.0 47.76 199.5	125	0.125	5.5	244.7 68.52 47.67 248.7	206	0.25	5.5	270.0 58.88 59.94 271.7	287	0.375	5.5	256.1 64.49 51.87 259.1				
45	0.0	5.625	85.38 66.23 162.2	126	0.125	5.625	0.0 139.1 84.76 82.74	207	0.25	5.625	120.0 85.02 122.27 127.3	288	0.375	5.625	259.1 64.49 51.87 259.1				
46	0.0	5.75	85.38 66.23 162.2	127	0.125	5.75	150.0 85.38 66.23 162.2	208	0.25	5.75	150.0 85.38 66.24 162.2	289	0.375	5.75	113.4 87.1 115.19 119.6				
47	0.0	5.875	85.38 66.23 162.2	128	0.125	5.875	163.9 86.01 57.22 174.9	209	0.25	5.875	180.0 86.72 51.09 189.6	290	0.375	5.875	85.02 122.27 127.3				
48	0.0	6.0	85.38 66.23 162.2	129	0.125	6.0	180.0 86.72 51.09 189.6	210	0.25	6.0	210.0 79.7 45.34 217.0	291	0.375	6.0	120.0 85.02 122.27 127.3				
49	0.0	6.125	85.38 66.23 162.2	130	0.125	6.125	196.1 86.24 55.24 179.7	211	0.25	6.125	229.1 73.46 44.48 234.4	292	0.375	6.125	150.0 85.38 66.24 162.2				
50	0.0	6.25	85.38 66.23 162.2	131	0.125	6.25	210.0 79.7 45.34 217.0	212	0.25	6.25	240.0 70.01 46.71 244.4	293	0.375	6.25	180.0 86.72 51.09 189.6				
51	0.0	6.375	85.38 66.23 162.2	132	0.125	6.375	223.9 75.12 43.58 229.7	213	0.25	6.375	250.9 66.53 49.04 254.3	294	0.375	6.375	210.0 79.7 45.34 217.0				
52	0.0	6.5	85.38 66.23 162.2	133	0.125	6.5	233.4 72.1 45.36 238.4	214	0.25	6.5	259.1 64.49 51.87 259.1	295	0.375	6.5	240.0 70.01 46.71 244.4				
53	0.0	6.625	85.38 66.23 162.2	134	0.125	6.625	240.0 70.01 46.71 244.4	215	0.25	6.625	270.0 58.88 59.94 271.7	296	0.375	6.625	250.9 66.53 49.04 254.3				
54	0.0	6.75	85.38 66.23 162.2	135	0.125	6.75	0.0 141.0 84.87 79.15	216	0.25	6.75	130.9 84.32 102.2 139.9	297	0.375	6.75	240.0 70.01 46.71 244.4				
55	0.0																		

Table with 18 columns: n\_rgb, rgb -> rgb%, h\_rgb, [L\*, C\*ab, hab]Ma,e. It contains 100 rows of color data for a 9x9 grid.

TUB-test chart KE64; 1080 rgb\* colours with 9x9x9 grid  
LECD display: CIELAB data of colours Ma

input: rgb->rgb\* setrgbcolor  
output: no change compared to input

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Table with 12 columns: n\_rgb, rgb -> rgb%, h\_rgb, [L\*, C\*ab, hab]Ma,e. It contains 100 rows of color data for a 1090-color grid.

TUB-test chart KE64; 1080 rgb\* colours with 9x9x9 grid  
LECD display: CIEMAB data of colours Ma

input: rgb->rgb\* setrgbcolor  
output: no change compared to input

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$n_{rgb}$	$rgb \rightarrow rgb^*$			$h_{rgb}$	$[L^*, C^*_{ab}, h_{ab}]_{Ma,e}$		
972	0.0	0.0	0.0	0.0	51.73	83.56	357.0
973	0.125	0.125	0.125	0.0	51.73	83.56	357.0
974	0.25	0.25	0.25	0.0	51.73	83.56	357.0
975	0.375	0.375	0.375	0.0	51.73	83.56	357.0
976	0.5	0.5	0.5	0.0	51.73	83.56	357.0
977	0.625	0.625	0.625	0.0	51.73	83.56	357.0
978	0.75	0.75	0.75	0.0	51.73	83.56	357.0
979	0.875	0.875	0.875	0.0	51.73	83.56	357.0
980	1.0	1.0	1.0	0.0	51.73	83.56	357.0
981	0.0	0.0	0.0	0.0	51.73	83.56	357.0
982	0.125	0.125	0.125	0.0	51.73	83.56	357.0
983	0.25	0.25	0.25	0.0	51.73	83.56	357.0
984	0.375	0.375	0.375	0.0	51.73	83.56	357.0
985	0.5	0.5	0.5	0.0	51.73	83.56	357.0
986	0.625	0.625	0.625	0.0	51.73	83.56	357.0
987	0.75	0.75	0.75	0.0	51.73	83.56	357.0
988	0.875	0.875	0.875	0.0	51.73	83.56	357.0
989	1.0	1.0	1.0	0.0	51.73	83.56	357.0
990	0.0	0.0	0.0	0.0	51.73	83.56	357.0
991	0.125	0.125	0.125	0.0	51.73	83.56	357.0
992	0.25	0.25	0.25	0.0	51.73	83.56	357.0
993	0.375	0.375	0.375	0.0	51.73	83.56	357.0
994	0.5	0.5	0.5	0.0	51.73	83.56	357.0
995	0.625	0.625	0.625	0.0	51.73	83.56	357.0
996	0.75	0.75	0.75	0.0	51.73	83.56	357.0
997	0.875	0.875	0.875	0.0	51.73	83.56	357.0
998	1.0	1.0	1.0	0.0	51.73	83.56	357.0
999	0.0	0.0	0.0	0.0	51.73	83.56	357.0
1000	0.125	0.125	0.125	0.0	51.73	83.56	357.0
1001	0.25	0.25	0.25	0.0	51.73	83.56	357.0
1002	0.375	0.375	0.375	0.0	51.73	83.56	357.0
1003	0.5	0.5	0.5	0.0	51.73	83.56	357.0
1004	0.625	0.625	0.625	0.0	51.73	83.56	357.0
1005	0.75	0.75	0.75	0.0	51.73	83.56	357.0
1006	0.875	0.875	0.875	0.0	51.73	83.56	357.0
1007	1.0	1.0	1.0	0.0	51.73	83.56	357.0

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$n_{rgb}$	$rgb \rightarrow rgb^*$	$h_{rgb}$	$[L^*, C^*_{ab}, h_{ab}]_{Ma,e}$
1008	0.0 0.0 0.0	0.0	51.73 83.56 357.0
1009	0.066 0.066 0.066	0.0	51.73 83.56 357.0
1010	0.133 0.133 0.133	0.0	51.73 83.56 357.0
1011	0.2 0.2 0.2	0.0	51.73 83.56 357.0
1012	0.266 0.266 0.266	0.0	51.73 83.56 357.0
1013	0.333 0.333 0.333	0.0	51.73 83.56 357.0
1014	0.4 0.4 0.4	0.0	51.73 83.56 357.0
1015	0.466 0.466 0.466	0.0	51.73 83.56 357.0
1016	0.533 0.533 0.533	0.0	51.73 83.56 357.0
1017	0.6 0.6 0.6	0.0	51.73 83.56 357.0
1018	0.666 0.666 0.666	0.0	51.73 83.56 357.0
1019	0.734 0.734 0.734	0.0	51.73 83.56 357.0
1020	0.8 0.8 0.8	0.0	51.73 83.56 357.0
1021	0.866 0.866 0.866	0.0	51.73 83.56 357.0
1022	0.933 0.933 0.933	0.0	51.73 83.56 357.0
1023	1.0 1.0 1.0	0.0	51.73 83.56 357.0
1024	0.0 0.0 0.0	0.0	51.73 83.56 357.0
1025	0.066 0.066 0.066	0.0	51.73 83.56 357.0
1026	0.133 0.133 0.133	0.0	51.73 83.56 357.0
1027	0.2 0.2 0.2	0.0	51.73 83.56 357.0
1028	0.266 0.266 0.266	0.0	51.73 83.56 357.0
1029	0.333 0.333 0.333	0.0	51.73 83.56 357.0
1030	0.4 0.4 0.4	0.0	51.73 83.56 357.0
1031	0.466 0.466 0.466	0.0	51.73 83.56 357.0
1032	0.533 0.533 0.533	0.0	51.73 83.56 357.0
1033	0.6 0.6 0.6	0.0	51.73 83.56 357.0
1034	0.666 0.666 0.666	0.0	51.73 83.56 357.0
1035	0.734 0.734 0.734	0.0	51.73 83.56 357.0
1036	0.8 0.8 0.8	0.0	51.73 83.56 357.0
1037	0.866 0.866 0.866	0.0	51.73 83.56 357.0
1038	0.933 0.933 0.933	0.0	51.73 83.56 357.0
1039	1.0 1.0 1.0	0.0	51.73 83.56 357.0
1040	0.0 0.0 0.0	0.0	51.73 83.56 357.0
1041	0.066 0.066 0.066	0.0	51.73 83.56 357.0
1042	0.133 0.133 0.133	0.0	51.73 83.56 357.0
1043	0.2 0.2 0.2	0.0	51.73 83.56 357.0
1044	0.266 0.266 0.266	0.0	51.73 83.56 357.0
1045	0.333 0.333 0.333	0.0	51.73 83.56 357.0
1046	0.4 0.4 0.4	0.0	51.73 83.56 357.0
1047	0.466 0.466 0.466	0.0	51.73 83.56 357.0
1048	0.533 0.533 0.533	0.0	51.73 83.56 357.0
1049	0.6 0.6 0.6	0.0	51.73 83.56 357.0
1050	0.666 0.666 0.666	0.0	51.73 83.56 357.0
1051	0.734 0.734 0.734	0.0	51.73 83.56 357.0
1052	0.8 0.8 0.8	0.0	51.73 83.56 357.0
1053	0.866 0.866 0.866	0.0	51.73 83.56 357.0
1054	0.933 0.933 0.933	0.0	51.73 83.56 357.0
1055	1.0 1.0 1.0	0.0	51.73 83.56 357.0
1056	0.0 0.0 0.0	0.0	51.73 83.56 357.0
1057	0.066 0.066 0.066	0.0	51.73 83.56 357.0
1058	0.133 0.133 0.133	0.0	51.73 83.56 357.0
1059	0.2 0.2 0.2	0.0	51.73 83.56 357.0
1060	0.266 0.266 0.266	0.0	51.73 83.56 357.0
1061	0.333 0.333 0.333	0.0	51.73 83.56 357.0
1062	0.4 0.4 0.4	0.0	51.73 83.56 357.0
1063	0.466 0.466 0.466	0.0	51.73 83.56 357.0
1064	0.533 0.533 0.533	0.0	51.73 83.56 357.0
1065	0.6 0.6 0.6	0.0	51.73 83.56 357.0
1066	0.666 0.666 0.666	0.0	51.73 83.56 357.0
1067	0.734 0.734 0.734	0.0	51.73 83.56 357.0
1068	0.8 0.8 0.8	0.0	51.73 83.56 357.0
1069	0.866 0.866 0.866	0.0	51.73 83.56 357.0
1070	0.933 0.933 0.933	0.0	51.73 83.56 357.0
1071	1.0 1.0 1.0	0.0	51.73 83.56 357.0
1072	0.0 0.0 0.0	0.0	51.73 83.56 357.0
1073	1.0 1.0 1.0	0.0	51.73 83.56 357.0
1074	1.0 0.0 0.0	30.0	50.49 87.9 25.5
1075	0.0 1.0 0.0	210.0	79.7 45.34 27.0
1076	1.0 0.0 0.0	90.0	83.47 100.08 92.3
1077	0.0 0.0 1.0	270.0	58.88 59.94 271.7
1078	0.0 1.0 0.0	150.0	85.38 66.23 162.2
1079	1.0 0.0 1.0	330.0	56.15 111.45 328.6

TUB registration: 201100801-KE64/KE64L0NP.PDF /.PS  
 application for measurement of printer or monitor systems

TUB material: code=rh4ta