



ColorChecker RGB Summaries, Spreadsheets and Lab TIFF File

Here are summaries of the ColorChecker RGB values for each of the reference RGB models. They were calculated with the [ColorChecker Calculator](#). Note that a few of the RGB components have negative values (shown in **red** below), meaning the color lies outside the gamut (at least the gamut defined by the bounds [0, 255]). The tables are laid out in the same 6 x 4 array as the ColorChecker chart, and within each cell, the color components are shown in red, green, blue order from top to bottom.

If you wish to compare your own RGB values (say from a digital camera picture of a ColorChecker chart) to each of the RGB models to see which is closest, I have prepared two Excel spreadsheets to perform these calculations for you. They are available as downloads in either [zip](#) (433K) or [sit](#) (432K) format. One spreadsheet does the comparison by converting the ideal Lab reference colors to RGB (using each of the RGB reference models as an assumed profile) and then compares these RGB values against your RGB values. The other spreadsheet converts your RGB values to Lab (using each of the RGB reference models as an assumed profile) and then compares these Lab values against the reference Lab values.

I have prepared a computer generated Lab TIFF file of the ColorChecker chart, using the Lab values obtained from the ColorChecker Calculator. It may be downloaded in either [zip](#) (16K) or [sit](#) (18K) format.

[Adobe \(1998\)](#) • [Apple](#) • [BestRGB](#) • [Beta RGB](#) • [BruceRGB](#) • [CIE](#) • [ColorMatch](#) • [DonRGB4](#) • [ECI](#) • [Ekta Space PS5](#) • [NTSC](#) • [PAL / SECAM](#) • [ProPhoto](#) • [SMPTE-C](#) • [sRGB](#) • [WideGamut](#)

Adobe (1998)					
106	182	103	95	129	133
81	149	122	108	128	189
67	130	154	69	174	170
194	79	170	84	167	213
121	91	85	62	186	162
48	162	97	105	73	57
54	101	152	228	164	63
62	148	48	199	83	134
149	76	58	55	144	163
242	200	159	122	84	53
241	200	160	121	84	53
236	199	159	120	84	53

Apple					
94	179	77	72	110	90
62	132	104	90	109	179
49	110	140	48	163	154
203	56	176	71	146	220
100	71	62	43	176	145
22	151	79	89	37	22
34	63	156	232	167	-24
43	134	25	189	59	117
137	49	42	-18	131	150
239	189	144	103	65	37
239	189	144	103	66	37
232	189	144	102	66	37

BestRGB					
105	181	105	94	131	135
85	154	121	105	130	181
69	133	151	73	170	172
191	84	169	85	164	209
134	93	103	68	181	169
64	157	99	102	90	78
61	101	152	224	165	74
66	140	75	201	102	126
144	84	62	85	141	161
242	200	159	121	84	53
241	200	160	121	84	53
237	199	159	120	84	53

Beta RGB					
104	180	106	94	132	137
82	151	122	106	129	184
69	133	152	72	171	171
189	85	168	85	165	207
127	94	94	66	183	165
60	159	99	103	84	71
62	102	150	222	163	76
66	144	61	199	93	130
146	81	62	76	143	162
242	200	159	121	84	53
241	200	160	121	84	53
237	199	159	120	84	53

BruceRGB					
111	189	98	91	129	115
81	149	122	108	128	189
67	130	154	69	173	170
207	76	184	89	162	223
121	91	85	62	186	162
49	162	97	105	74	58
52	86	167	234	177	13
62	148	48	199	83	134
149	76	58	56	144	163
242	200	159	122	84	53
241	200	160	121	84	53
236	199	159	120	84	53

CIE RGB					
111	190	95	94	126	119
84	153	123	103	133	180
69	132	151	73	170	170
208	67	184	86	168	225
132	98	103	70	177	165
64	157	99	104	88	77
34	93	168	238	176	51
74	138	75	196	105	56
144	83	62	82	143	223
242	200	159	122	84	53
241	200	160	121	84	53
236	199	159	120	84	53

ColorMatch					
93	179	78	71	113	93
62	131	104	90	108	178
48	110	140	48	162	156
200	59	176	72	144	217
101	71	60	44	176	147
17	151	78	88	38	17
38	62	157	229	169	9
43	134	21	189	58	115
137	51	41	-18	129	152
239	189	144	103	65	37
239	189	144	103	66	37
232	189	144	102	66	37

DonRGB4					
105	181	105	94	131	135
83	152	122	106	130	183
69	133	151	73	170	172
191	84	169	85	164	209
129	94	96	66	182	166
62	157	98	102	88	75
61	100	152	224	165	73
67	143	65	199	96	129
145	83	61	81	141	162
242	200	159	121	84	53
241	200	160	121	84	53
237	199	159	120	84	53

ECI					
87	168	86	75	113	117
64	134	102	90	107	175
51	114	136	52	159	156
180	65	155	67	150	201
108	69	69	44	176	152
40	145	81	85	58	47
43	82	136	218	150	54
40	132	36	193	64	111
131	58	46	47	128	148
239	189	144	103	65	37
239	189	144	103	66	37
233	189	144	102	66	37

Ekta Space PS5					
106	183	105	92	133	129
82	151	123	105	131	183
69	133	152	72	171	171
195	86	174	88	160	211
127	96	95	68	180	164
60	159	99	103	84	71
64	93	157	224	170	68
71	142	64	197	97	131
146	81	62	76	143	162
242	200	159	121	84	53
241	200	160	121	84	53
237	199	159	120	84	53

NTSC					
105	180	106	94	131	135
82	152	119	110	123	189
69	132	153	70	173	169
191	84	168	86	165	209
128	82	87	57	191	169
59	160	100	105	78	68
61	101	150	223	163	71
47	151	53	207	79	129
148	77	63	68	145	161
242	200	159	121	84	53
242	200	160	121	84	53
237	200	160	120	84	53

PAL / SECAM					
113	192	95	89	129	105
81	149	122	108	128	189
66	129	155	66	176	169
213	74	190	91	160	227
121	91	85	62	186	162
40	165	98	107	59	43
51	78	172	236	182	-42
62	148	48	199	83	134
152	69	59	21	147	165
242	200	159	122	84	53
241	200	160	121	84	53
236	199	159	120	84	53

ProPhoto					
81	160	95	74	119	128
66	138	102	86	111	167
52	116	134	56	155	157
163	78	142	68	143	184
116	74	85	51	168	155
48	140	80	83	73	61
59	84	122	202	142	76
49	123	57	191	84	108
126	67	45	69	123	145
238	189	144	103	65	37
238	189	144	103	66	37
233	189	144	102	66	37

SMPTE-C					
116	196	91	88	128	90
80	149	122	109	127	190
67	129	155	67	175	169
221	71	198	93	158	234
119	90	81	60	188	161
44	164	98	107	64	49
47	65	181	241	190	-65
59	150	40	200	78	134
151	71	59	38	146	164
242	200	159	122	84	53
242	200	160	121	84	53
236	199	159	120	84	53

sRGB					
115	195	94	88	130	100
80	151	123	108	129	190
64	130	156	65	177	171
217	72	194	91	160	230
122	91	84	59	188	163
37	165	98	107	60	42
46	71	177	238	187	-49
60	150	44	200	82	135
153	69	56	27	148	166
243	201	161	122	83	50
242	201	161	122	83	49
237	201	161	121	83	50
WideGamut					
103	179	105	96	129	142
84	153	122	104	131	180
68	132	152	71	172	171
187	81	163	82	170	207
132	96	103	70	179	167
58	159	99	103	82	69
54	109	146	224	158	79
71	139	75	198	104	128
147	80	61	72	143	163
242	200	159	121	84	53
241	200	160	121	84	53
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