

<http://research.stowers-institute.org/efq/R/Color/Chart>

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275
276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325
326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375
376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425
426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475
476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550
551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575
576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625
626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657																		

## R colors -- Sorted by Hue, Saturation, Value

24	153	261	154	262	155	263	156	264	157	265	158	266	159	267	160	268	161	269	162	270	163	271	164	272
165	273	166	274	167	275	168	276	169	277	170	278	171	279	172	280	173	281	174	282	175	283	176	284	177
285	178	286	179	287	180	288	181	289	182	290	183	291	184	292	185	293	186	294	187	295	188	296	189	297
190	298	191	299	192	300	193	301	126	127	194	302	195	303	196	304	197	305	198	306	199	307	200	308	201
309	202	310	203	311	204	312	205	313	206	314	207	315	208	316	209	317	210	318	211	319	212	320	213	321
214	322	215	323	216	324	217	325	218	326	219	327	80	82	220	328	221	329	222	330	223	331	224	332	225
333	226	334	227	335	152	260	228	336	229	337	230	338	231	339	232	340	233	341	234	342	235	343	416	418
236	344	237	345	238	346	239	347	140	240	348	241	349	242	350	243	351	244	352	245	353	246	354	247	355
248	356	249	357	651	250	358	251	359	252	360	1	253	361	609	608	605	606	607	557	558	559	560	561	404
372	376	374	373	375	32	36	33	35	34	133	134	137	136	135	100	556	555	554	552	553	482	479	480	568
481	483	633	632	630	631	634	60	61	59	58	570	571	572	569	101	507	506	57	505	503	504	426	424	425
428	427	587	586	585	584	588	579	580	54	55	53	52	56	567	582	581	583	573	532	533	530	531	534	621
624	622	535	623	92	94	93	91	449	22	19	20	21	90	6	4	41	5	39	38	40	23	37	3	620
7	487	485	486	25	489	488	529	484	500	498	499	502	650	501	646	492	647	649	648	138	76	77	78	79
75	151	147	148	149	150	63	64	65	66	412	411	413	414	146	67	410	142	143	145	144	396	397	394	395
382	513	386	383	385	384	398	83	381	380	377	378	379	18	443	444	445	446	447	415	656	655	654	652	653
497	494	493	495	496	657	85	86	89	87	88	259	47	48	50	51	49	393	366	365	362	363	364	102	103
104	105	106	514	417	516	517	518	515	139	448	81	258	257	256	254	255	576	575	574	578	577	472	612	614
613	610	611	478	474	11	460	8	9	10	12	635	429	475	17	16	13	14	15	405	406	407	408	409	519
523	520	522	521	108	113	110	109	111	112	72	74	71	70	68	69	114	42	639	637	638	636	46	44	45
43	546	403	399	124	400	401	121	122	125	123	402	589	433	432	431	434	430	592	590	591	593	617	618	615
616	619	2	131	128	129	130	132	436	437	599	604	602	600	601	603	442	441	440	438	439	62	565	564	563
562	566	141	387	477	490	491	30	73	29	461	28	26	27	597	595	594	598	435	596	107	473	471	469	470
467	468	548	31	549	550	551	547	99	97	96	95	98	115	465	464	463	466	462	629	625	628	626	627	545
542	544	543	541	640	84	654	453	452	450	451	512	508	511	509	510	641	459	476	458	457	456	120	118	116
117	119	367	371	368	369	645	642	643	644	370	392	455	390	391	388	389	525	524	527	526	528	540	538	539
537	536	419	421	422	423	420																		

# R colors

1	white	#FFFFFF	255	255	255
2	aliceblue	#F0F8FF	240	248	255
3	antiquewhite	#FAEBD7	250	235	215
4	antiquewhite1	#FFEFD8	255	239	219
5	antiquewhite2	#EEDFCC	238	223	204
6	antiquewhite3	#CDC0B0	205	192	176
7	antiquewhite4	#8B8378	139	131	120
8	aquamarine	#7FFFD4	127	255	212
9	aquamarine1	#7FFFD4	127	255	212
10	aquamarine2	#76EEC6	118	238	198
11	aquamarine3	#66CDAA	102	205	170
12	aquamarine4	#458B74	69	139	116
13	azure	#F0FFFF	240	255	255
14	azure1	#F0FFFF	240	255	255
15	azure2	#E0EEEE	224	238	238
16	azure3	#C1CDCD	193	205	205
17	azure4	#838B8B	131	139	139
18	beige	#F5F5DC	245	245	220
19	bisque	#FFE4C4	255	228	196
20	bisque1	#FFE4C4	255	228	196
21	bisque2	#EED5B7	238	213	183
22	bisque3	#CDB79E	205	183	158
23	bisque4	#8B7D6B	139	125	107
24	black	#000000	0	0	0
25	blanchedalmond	#FFEBCD	255	235	205
26	blue	#0000FF	0	0	255
27	blue1	#0000FF	0	0	255
28	blue2	#0000EE	0	0	238
29	blue3	#0000CD	0	0	205
30	blue4	#00008B	0	0	139
31	blueviolet	#8A2BE2	138	43	226
32	brown	#A52A2A	165	42	42
33	brown1	#FF4040	255	64	64
34	brown2	#EE3B3B	238	59	59
35	brown3	#CD3333	205	51	51
36	brown4	#8B2323	139	35	35
37	burlywood	#DEB887	222	184	135
38	burlywood1	#FFD39B	255	211	155
39	burlywood2	#EEC591	238	197	145
40	burlywood3	#CDA77D	205	170	125
41	burlywood4	#8B7355	139	115	85
42	cadetblue	#5F9EA0	95	158	160
43	cadetblue1	#98F5FF	152	245	255
44	cadetblue2	#8EE5EE	142	229	238
45	cadetblue3	#7AC5CD	122	197	205
46	cadetblue4	#53868B	83	134	139
47	chartreuse	#7FFF00	127	255	0
48	chartreuse1	#7FFF00	127	255	0
49	chartreuse2	#76EE00	118	238	0
50	chartreuse3	#66CD00	102	205	0
51	chartreuse4	#458B00	69	139	0
52	chocolate	#D2691E	210	105	30
53	chocolate1	#FF7F24	255	127	36
54	chocolate2	#EE7621	238	118	33
55	chocolate3	#CD661D	205	102	29
56	chocolate4	#8B4513	139	69	19
57	coral	#FF7F50	255	127	80
58	coral1	#FF7256	255	114	86
59	coral2	#EE6A50	238	106	80
60	coral3	#CD5B45	205	91	69
61	coral4	#8B3E2F	139	62	47
62	cornflowerblue	#6495ED	100	149	237
63	cornsilk	#FFF8DC	255	248	220
64	cornsilk1	#FFF8DC	255	248	220
65	cornsilk2	#EEE8CD	238	232	205
66	cornsilk3	#CDC8B1	205	200	177
67	cornsilk4	#8B8878	139	136	120
68	cyan	#00FFFF	0	255	255
69	cyan1	#00FFFF	0	255	255
70	cyan2	#00EEEE	0	238	238
71	cyan3	#00CDCD	0	205	205
72	cyan4	#008B8B	0	139	139
73	darkblue	#00008B	0	0	139
74	darkcyan	#008B8B	0	139	139
75	darkgoldenrod	#B8860B	184	134	11
76	darkgoldenrod1	#FFB90F	255	185	15
77	darkgoldenrod2	#EAD0E	238	173	14
78	darkgoldenrod3	#CD950C	205	149	12
79	darkgoldenrod4	#8B6508	139	101	8
80	darkgray	#A9A9A9	169	169	169
81	darkgreen	#006400	0	100	0
82	darkgrey	#A9A9A9	169	169	169
83	darkkhaki	#BDB76B	189	183	107
84	darkmagenta	#8B008B	139	0	139
85	darkolivegreen	#556B2F	85	107	47
86	darkolivegreen1	#CAFF70	202	255	112
87	darkolivegreen2	#BCEE68	188	238	104
88	darkolivegreen3	#A2CD5A	162	205	90
89	darkolivegreen4	#6E8B3D	110	139	61
90	darkorange	#FF8C00	255	140	0
91	darkorange1	#FF7F00	255	127	0
92	darkorange2	#EE7600	238	118	0
93	darkorange3	#CD6600	205	102	0
94	darkorange4	#8B4500	139	69	0
95	darkorchid	#9932CC	153	50	204
96	darkorchid1	#BF3EFF	191	62	255
97	darkorchid2	#B23AEE	178	58	238
98	darkorchid3	#9A32CD	154	50	205
99	darkorchid4	#68228B	104	34	139
100	darkred	#8B0000	139	0	0

# R colors

101	darksalmon	#E9967A	233	150	122
102	darkseagreen	#8FBC8F	143	188	143
103	darkseagreen1	#C1FFC1	193	255	193
104	darkseagreen2	#B4EEB4	180	238	180
105	darkseagreen3	#9BCD9B	155	205	155
106	darkseagreen4	#698B69	105	139	105
107	darkslateblue	#483D8B	72	61	139
108	darkslategray	#2F4F4F	47	79	79
109	darkslategray1	#97FFFF	151	255	255
110	darkslategray2	#8DEEEE	141	238	238
111	darkslategray3	#79CDCD	121	205	205
112	darkslategray4	#528B8B	82	139	139
113	darkslategrey	#2F4F4F	47	79	79
114	darkturquoise	#00CED1	0	206	209
115	darkviolet	#9400D3	148	0	211
116	deeppink	#FF1493	255	20	147
117	deeppink1	#FF1493	255	20	147
118	deeppink2	#EE1289	238	18	137
119	deeppink3	#CD1076	205	16	118
120	deeppink4	#8B0A50	139	10	80
121	deepskyblue	#00BFFF	0	191	255
122	deepskyblue1	#00BFFF	0	191	255
123	deepskyblue2	#00B2EE	0	178	238
124	deepskyblue3	#009ACD	0	154	205
125	deepskyblue4	#00688B	0	104	139
126	dimgray	#696969	105	105	105
127	dimgrey	#696969	105	105	105
128	dodgerblue	#1E90FF	30	144	255
129	dodgerblue1	#1E90FF	30	144	255
130	dodgerblue2	#1C86EE	28	134	238
131	dodgerblue3	#1874CD	24	116	205
132	dodgerblue4	#104E8B	16	78	139
133	firebrick	#B22222	178	34	34
134	firebrick1	#FF3030	255	48	48
135	firebrick2	#EE2C2C	238	44	44
136	firebrick3	#CD2626	205	38	38
137	firebrick4	#8B1A1A	139	26	26
138	floralwhite	#FFFAF0	255	250	240
139	forestgreen	#228B22	34	139	34
140	gainsboro	#DCDCDC	220	220	220
141	ghostwhite	#F8F8FF	248	248	255
142	gold	#FFD700	255	215	0
143	gold1	#FFD700	255	215	0
144	gold2	#EEC900	238	201	0
145	gold3	#CDAD00	205	173	0
146	gold4	#8B7500	139	117	0
147	goldenrod	#DAA520	218	165	32
148	goldenrod1	#FFC125	255	193	37
149	goldenrod2	#EEB422	238	180	34
150	goldenrod3	#CD9B1D	205	155	29

151	goldenrod4	#8B6914	139	105	20
152	gray	#BEBEBE	190	190	190
153	gray0	#000000	0	0	0
154	gray1	#030303	3	3	3
155	gray2	#050505	5	5	5
156	gray3	#080808	8	8	8
157	gray4	#0A0A0A	10	10	10
158	gray5	#0D0D0D	13	13	13
159	gray6	#0F0F0F	15	15	15
160	gray7	#121212	18	18	18
161	gray8	#141414	20	20	20
162	gray9	#171717	23	23	23
163	gray10	#1A1A1A	26	26	26
164	gray11	#1C1C1C	28	28	28
165	gray12	#1F1F1F	31	31	31
166	gray13	#212121	33	33	33
167	gray14	#242424	36	36	36
168	gray15	#262626	38	38	38
169	gray16	#292929	41	41	41
170	gray17	#2B2B2B	43	43	43
171	gray18	#2E2E2E	46	46	46
172	gray19	#303030	48	48	48
173	gray20	#333333	51	51	51
174	gray21	#363636	54	54	54
175	gray22	#383838	56	56	56
176	gray23	#3B3B3B	59	59	59
177	gray24	#3D3D3D	61	61	61
178	gray25	#404040	64	64	64
179	gray26	#424242	66	66	66
180	gray27	#454545	69	69	69
181	gray28	#474747	71	71	71
182	gray29	#4A4A4A	74	74	74
183	gray30	#4D4D4D	77	77	77
184	gray31	#4F4F4F	79	79	79
185	gray32	#525252	82	82	82
186	gray33	#545454	84	84	84
187	gray34	#575757	87	87	87
188	gray35	#595959	89	89	89
189	gray36	#5C5C5C	92	92	92
190	gray37	#5E5E5E	94	94	94
191	gray38	#616161	97	97	97
192	gray39	#636363	99	99	99
193	gray40	#666666	102	102	102
194	gray41	#696969	105	105	105
195	gray42	#6B6B6B	107	107	107
196	gray43	#6E6E6E	110	110	110
197	gray44	#707070	112	112	112
198	gray45	#737373	115	115	115
199	gray46	#757575	117	117	117
200	gray47	#787878	120	120	120

# R colors

201	gray48	#7A7A7A	122	122	122
202	gray49	#7D7D7D	125	125	125
203	gray50	#7F7F7F	127	127	127
204	gray51	#828282	130	130	130
205	gray52	#858585	133	133	133
206	gray53	#878787	135	135	135
207	gray54	#8A8A8A	138	138	138
208	gray55	#8C8C8C	140	140	140
209	gray56	#8F8F8F	143	143	143
210	gray57	#919191	145	145	145
211	gray58	#949494	148	148	148
212	gray59	#969696	150	150	150
213	gray60	#999999	153	153	153
214	gray61	#9C9C9C	156	156	156
215	gray62	#9E9E9E	158	158	158
216	gray63	#A1A1A1	161	161	161
217	gray64	#A3A3A3	163	163	163
218	gray65	#A6A6A6	166	166	166
219	gray66	#A8A8A8	168	168	168
220	gray67	#ABABAB	171	171	171
221	gray68	#ADADAD	173	173	173
222	gray69	#B0B0B0	176	176	176
223	gray70	#B3B3B3	179	179	179
224	gray71	#B5B5B5	181	181	181
225	gray72	#B8B8B8	184	184	184
226	gray73	#BABABA	186	186	186
227	gray74	#BDBDBD	189	189	189
228	gray75	#BFBFBF	191	191	191
229	gray76	#C2C2C2	194	194	194
230	gray77	#C4C4C4	196	196	196
231	gray78	#C7C7C7	199	199	199
232	gray79	#C9C9C9	201	201	201
233	gray80	#CCCCCC	204	204	204
234	gray81	#CFCFCF	207	207	207
235	gray82	#D1D1D1	209	209	209
236	gray83	#D4D4D4	212	212	212
237	gray84	#D6D6D6	214	214	214
238	gray85	#D9D9D9	217	217	217
239	gray86	#DBDBDB	219	219	219
240	gray87	#DEDEDE	222	222	222
241	gray88	#E0E0E0	224	224	224
242	gray89	#E3E3E3	227	227	227
243	gray90	#E5E5E5	229	229	229
244	gray91	#E8E8E8	232	232	232
245	gray92	#EBEBEB	235	235	235
246	gray93	#EDEDED	237	237	237
247	gray94	#F0F0F0	240	240	240
248	gray95	#F2F2F2	242	242	242
249	gray96	#F5F5F5	245	245	245
250	gray97	#F7F7F7	247	247	247

251	gray98	#FAFAFA	250	250	250
252	gray99	#FCFCFC	252	252	252
253	gray100	#FFFFFF	255	255	255
254	green	#00FF00	0	255	0
255	green1	#00FF00	0	255	0
256	green2	#00EE00	0	238	0
257	green3	#00CD00	0	205	0
258	green4	#008B00	0	139	0
259	greenyellow	#ADFF2F	173	255	47
260	grey	#BEBEBE	190	190	190
261	grey0	#000000	0	0	0
262	grey1	#030303	3	3	3
263	grey2	#050505	5	5	5
264	grey3	#080808	8	8	8
265	grey4	#0A0A0A	10	10	10
266	grey5	#0D0D0D	13	13	13
267	grey6	#0F0F0F	15	15	15
268	grey7	#121212	18	18	18
269	grey8	#141414	20	20	20
270	grey9	#171717	23	23	23
271	grey10	#1A1A1A	26	26	26
272	grey11	#1C1C1C	28	28	28
273	grey12	#1F1F1F	31	31	31
274	grey13	#212121	33	33	33
275	grey14	#242424	36	36	36
276	grey15	#262626	38	38	38
277	grey16	#292929	41	41	41
278	grey17	#2B2B2B	43	43	43
279	grey18	#2E2E2E	46	46	46
280	grey19	#303030	48	48	48
281	grey20	#333333	51	51	51
282	grey21	#363636	54	54	54
283	grey22	#383838	56	56	56
284	grey23	#3B3B3B	59	59	59
285	grey24	#3D3D3D	61	61	61
286	grey25	#404040	64	64	64
287	grey26	#424242	66	66	66
288	grey27	#454545	69	69	69
289	grey28	#474747	71	71	71
290	grey29	#4A4A4A	74	74	74
291	grey30	#4D4D4D	77	77	77
292	grey31	#4F4F4F	79	79	79
293	grey32	#525252	82	82	82
294	grey33	#545454	84	84	84
295	grey34	#575757	87	87	87
296	grey35	#595959	89	89	89
297	grey36	#5C5C5C	92	92	92
298	grey37	#5E5E5E	94	94	94
299	grey38	#616161	97	97	97
300	grey39	#636363	99	99	99

# R colors

301	grey40	#666666	102	102	102
302	grey41	#696969	105	105	105
303	grey42	#6B6B6B	107	107	107
304	grey43	#6E6E6E	110	110	110
305	grey44	#707070	112	112	112
306	grey45	#737373	115	115	115
307	grey46	#757575	117	117	117
308	grey47	#787878	120	120	120
309	grey48	#7A7A7A	122	122	122
310	grey49	#7D7D7D	125	125	125
311	grey50	#7F7F7F	127	127	127
312	grey51	#828282	130	130	130
313	grey52	#858585	133	133	133
314	grey53	#878787	135	135	135
315	grey54	#8A8A8A	138	138	138
316	grey55	#8C8C8C	140	140	140
317	grey56	#8F8F8F	143	143	143
318	grey57	#919191	145	145	145
319	grey58	#949494	148	148	148
320	grey59	#969696	150	150	150
321	grey60	#999999	153	153	153
322	grey61	#9C9C9C	156	156	156
323	grey62	#9E9E9E	158	158	158
324	grey63	#A1A1A1	161	161	161
325	grey64	#A3A3A3	163	163	163
326	grey65	#A6A6A6	166	166	166
327	grey66	#A8A8A8	168	168	168
328	grey67	#ABABAB	171	171	171
329	grey68	#ADADAD	173	173	173
330	grey69	#B0B0B0	176	176	176
331	grey70	#B3B3B3	179	179	179
332	grey71	#B5B5B5	181	181	181
333	grey72	#B8B8B8	184	184	184
334	grey73	#BABABA	186	186	186
335	grey74	#BDBDBD	189	189	189
336	grey75	#BFBFBF	191	191	191
337	grey76	#C2C2C2	194	194	194
338	grey77	#C4C4C4	196	196	196
339	grey78	#C7C7C7	199	199	199
340	grey79	#C9C9C9	201	201	201
341	grey80	#CCCCCC	204	204	204
342	grey81	#CFCFCF	207	207	207
343	grey82	#D1D1D1	209	209	209
344	grey83	#D4D4D4	212	212	212
345	grey84	#D6D6D6	214	214	214
346	grey85	#D9D9D9	217	217	217
347	grey86	#DBDBDB	219	219	219
348	grey87	#DEDEDE	222	222	222
349	grey88	#E0E0E0	224	224	224
350	grey89	#E3E3E3	227	227	227
351	grey90	#E5E5E5	229	229	229
352	grey91	#E8E8E8	232	232	232
353	grey92	#EBEBEB	235	235	235
354	grey93	#EDEDED	237	237	237
355	grey94	#F0F0F0	240	240	240
356	grey95	#F2F2F2	242	242	242
357	grey96	#F5F5F5	245	245	245
358	grey97	#F7F7F7	247	247	247
359	grey98	#FAFAFA	250	250	250
360	grey99	#FCFCFC	252	252	252
361	grey100	#FFFFFF	255	255	255
362	honeydew	#F0FFF0	240	255	240
363	honeydew1	#F0FFF0	240	255	240
364	honeydew2	#E0EEE0	224	238	224
365	honeydew3	#C1CDC1	193	205	193
366	honeydew4	#838B83	131	139	131
367	hotpink	#FF69B4	255	105	180
368	hotpink1	#FF6EB4	255	110	180
369	hotpink2	#EE6AA7	238	106	167
370	hotpink3	#CD6090	205	96	144
371	hotpink4	#8B3A62	139	58	98
372	indianred	#CD5C5C	205	92	92
373	indianred1	#FF6A6A	255	106	106
374	indianred2	#EE6363	238	99	99
375	indianred3	#CD5555	205	85	85
376	indianred4	#8B3A3A	139	58	58
377	ivory	#FFFFFF0	255	255	240
378	ivory1	#FFFFFF0	255	255	240
379	ivory2	#EEEEEE0	238	238	224
380	ivory3	#CDCDC1	205	205	193
381	ivory4	#8B8B83	139	139	131
382	khaki	#F0E68C	240	230	140
383	khaki1	#FFF68F	255	246	143
384	khaki2	#EEE685	238	230	133
385	khaki3	#CDC673	205	198	115
386	khaki4	#8B864E	139	134	78
387	lavender	#E6E6FA	230	230	250
388	lavenderblush	#FFF0F5	255	240	245
389	lavenderblush1	#FFF0F5	255	240	245
390	lavenderblush2	#EEE0E5	238	224	229
391	lavenderblush3	#CDC1C5	205	193	197
392	lavenderblush4	#8B8386	139	131	134
393	lawngreen	#7CFC00	124	252	0
394	lemonchiffon	#FFFACD	255	250	205
395	lemonchiffon1	#FFFACD	255	250	205
396	lemonchiffon2	#EEE9BF	238	233	191
397	lemonchiffon3	#CDC9A5	205	201	165
398	lemonchiffon4	#8B8970	139	137	112
399	lightblue	#ADD8E6	173	216	230
400	lightblue1	#BFEFFF	191	239	255



# R colors

401	lightblue2	#B2DFEE	178	223	238
402	lightblue3	#9AC0CD	154	192	205
403	lightblue4	#68838B	104	131	139
404	lightcoral	#F08080	240	128	128
405	lightcyan	#E0FFFF	224	255	255
406	lightcyan1	#E0FFFF	224	255	255
407	lightcyan2	#D1EEEE	209	238	238
408	lightcyan3	#B4CDCD	180	205	205
409	lightcyan4	#7A8B8B	122	139	139
410	lightgoldenrod	#EEDD82	238	221	130
411	lightgoldenrod1	#FFEC8B	255	236	139
412	lightgoldenrod2	#EEDC82	238	220	130
413	lightgoldenrod3	#CDBE70	205	190	112
414	lightgoldenrod4	#8B814C	139	129	76
415	lightgoldenrodyellow	#FAFAD2	250	250	210
416	lightgray	#D3D3D3	211	211	211
417	lightgreen	#90EE90	144	238	144
418	lightgrey	#D3D3D3	211	211	211
419	lightpink	#FFB6C1	255	182	193
420	lightpink1	#FFAEB9	255	174	185
421	lightpink2	#EEA2AD	238	162	173
422	lightpink3	#CD8C95	205	140	149
423	lightpink4	#8B5F65	139	95	101
424	lightsalmon	#FFA07A	255	160	122
425	lightsalmon1	#FFA07A	255	160	122
426	lightsalmon2	#EE9572	238	149	114
427	lightsalmon3	#CD8162	205	129	98
428	lightsalmon4	#8B5742	139	87	66
429	lightseagreen	#20B2AA	32	178	170
430	lightskyblue	#87CEFA	135	206	250
431	lightskyblue1	#B0E2FF	176	226	255
432	lightskyblue2	#A4D3EE	164	211	238
433	lightskyblue3	#8DB6CD	141	182	205
434	lightskyblue4	#607B8B	96	123	139
435	lightslateblue	#8470FF	132	112	255
436	lightslategray	#778899	119	136	153
437	lightslategrey	#778899	119	136	153
438	lightsteelblue	#B0C4DE	176	196	222
439	lightsteelblue1	#CAE1FF	202	225	255
440	lightsteelblue2	#BCD2EE	188	210	238
441	lightsteelblue3	#A2B5CD	162	181	205
442	lightsteelblue4	#6E7B8B	110	123	139
443	lightyellow	#FFFFE0	255	255	224
444	lightyellow1	#FFFFE0	255	255	224
445	lightyellow2	#EEEEED	238	238	209
446	lightyellow3	#CDCDB4	205	205	180
447	lightyellow4	#8B8B7A	139	139	122
448	limegreen	#32CD32	50	205	50
449	linen	#FAF0E6	250	240	230
450	magenta	#FF00FF	255	0	255
451	magenta1	#FF00FF	255	0	255
452	magenta2	#EE00EE	238	0	238
453	magenta3	#CD00CD	205	0	205
454	magenta4	#8B008B	139	0	139
455	maroon	#B03060	176	48	96
456	maroon1	#FF34B3	255	52	179
457	maroon2	#EE30A7	238	48	167
458	maroon3	#CD2990	205	41	144
459	maroon4	#8B1C62	139	28	98
460	mediumaquamarine	#66CDAA	102	205	170
461	mediumblue	#0000CD	0	0	205
462	mediumorchid	#BA55D3	186	85	211
463	mediumorchid1	#E066FF	224	102	255
464	mediumorchid2	#D15FEE	209	95	238
465	mediumorchid3	#B452CD	180	82	205
466	mediumorchid4	#7A378B	122	55	139
467	mediumpurple	#9370DB	147	112	219
468	mediumpurple1	#AB82FF	171	130	255
469	mediumpurple2	#9F79EE	159	121	238
470	mediumpurple3	#8968CD	137	104	205
471	mediumpurple4	#5D478B	93	71	139
472	mediumseagreen	#3CB371	60	179	113
473	mediumslateblue	#7B68EE	123	104	238
474	mediumspringgreen	#00FA9A	0	250	154
475	mediumturquoise	#48D1CC	72	209	204
476	mediumvioletred	#C71585	199	21	133
477	midnightblue	#191970	25	25	112
478	mintcream	#F5FFFA	245	255	250
479	mistyrose	#FFE4E1	255	228	225
480	mistyrose1	#FFE4E1	255	228	225
481	mistyrose2	#EED5D2	238	213	210
482	mistyrose3	#CDB7B5	205	183	181
483	mistyrose4	#8B7D7B	139	125	123
484	moccasin	#FFE4B5	255	228	181
485	navajowhite	#FFDEAD	255	222	173
486	navajowhite1	#FFDEAD	255	222	173
487	navajowhite2	#EECFA1	238	207	161
488	navajowhite3	#CDB38B	205	179	139
489	navajowhite4	#8B795E	139	121	94
490	navy	#000080	0	0	128
491	navyblue	#000080	0	0	128
492	oldlace	#FDF5E6	253	245	230
493	olivedrab	#6B8E23	107	142	35
494	olivedrab1	#C0FF3E	192	255	62
495	olivedrab2	#B3EE3A	179	238	58
496	olivedrab3	#9ACD32	154	205	50
497	olivedrab4	#698B22	105	139	34
498	orange	#FFA500	255	165	0
499	orange1	#FFA500	255	165	0
500	orange2	#EE9A00	238	154	0

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501	orange3	#CD8500	205	133	0
502	orange4	#8B5A00	139	90	0
503	orangered	#FF4500	255	69	0
504	orangered1	#FF4500	255	69	0
505	orangered2	#EE4000	238	64	0
506	orangered3	#CD3700	205	55	0
507	orangered4	#8B2500	139	37	0
508	orchid	#DA70D6	218	112	214
509	orchid1	#FF83FA	255	131	250
510	orchid2	#EE7AE9	238	122	233
511	orchid3	#CD69C9	205	105	201
512	orchid4	#8B4789	139	71	137
513	palegoldenrod	#EEE8AA	238	232	170
514	palegreen	#98FB98	152	251	152
515	palegreen1	#9AFF9A	154	255	154
516	palegreen2	#90EE90	144	238	144
517	palegreen3	#7CCD7C	124	205	124
518	palegreen4	#548B54	84	139	84
519	paleturquoise	#AFEEEE	175	238	238
520	paleturquoise1	#BBFFFF	187	255	255
521	paleturquoise2	#AEEEEEE	174	238	238
522	paleturquoise3	#96CDCD	150	205	205
523	paleturquoise4	#668B8B	102	139	139
524	palevioletred	#DB7093	219	112	147
525	palevioletred1	#FF82AB	255	130	171
526	palevioletred2	#EE799F	238	121	159
527	palevioletred3	#CD6889	205	104	137
528	palevioletred4	#8B475D	139	71	93
529	papayawhip	#FFEDF5	255	239	213
530	peachpuff	#FFDAB9	255	218	185
531	peachpuff1	#FFDAB9	255	218	185
532	peachpuff2	#EECBAD	238	203	173
533	peachpuff3	#CDAF95	205	175	149
534	peachpuff4	#8B7765	139	119	101
535	peru	#CD853F	205	133	63
536	pink	#FFC0CB	255	192	203
537	pink1	#FFB5C5	255	181	197
538	pink2	#EEA9B8	238	169	184
539	pink3	#CD919E	205	145	158
540	pink4	#8B636C	139	99	108
541	plum	#DDA0DD	221	160	221
542	plum1	#FFBBFF	255	187	255
543	plum2	#EEAEEEE	238	174	238
544	plum3	#CD96CD	205	150	205
545	plum4	#8B668B	139	102	139
546	powderblue	#B0E0E6	176	224	230
547	purple	#A020F0	160	32	240
548	purple1	#9B30FF	155	48	255
549	purple2	#912CEE	145	44	238
550	purple3	#7D26CD	125	38	205

551	purple4	#551A8B	85	26	139
552	red	#FF0000	255	0	0
553	red1	#FF0000	255	0	0
554	red2	#EE0000	238	0	0
555	red3	#CD0000	205	0	0
556	red4	#8B0000	139	0	0
557	rosybrown	#BC8F8F	188	143	143
558	rosybrown1	#FFC1C1	255	193	193
559	rosybrown2	#EEB4B4	238	180	180
560	rosybrown3	#CD9B9B	205	155	155
561	rosybrown4	#8B6969	139	105	105
562	royalblue	#4169E1	65	105	225
563	royalblue1	#4876FF	72	118	255
564	royalblue2	#436EEE	67	110	238
565	royalblue3	#3A5FCD	58	95	205
566	royalblue4	#27408B	39	64	139
567	saddlebrown	#8B4513	139	69	19
568	salmon	#FA8072	250	128	114
569	salmon1	#FF8C69	255	140	105
570	salmon2	#EE8262	238	130	98
571	salmon3	#CD7054	205	112	84
572	salmon4	#8B4C39	139	76	57
573	sandybrown	#F4A460	244	164	96
574	seagreen	#2E8B57	46	139	87
575	seagreen1	#54FF9F	84	255	159
576	seagreen2	#4EEE94	78	238	148
577	seagreen3	#43CD80	67	205	128
578	seagreen4	#2E8B57	46	139	87
579	seashell	#FFF5EE	255	245	238
580	seashell1	#FFF5EE	255	245	238
581	seashell2	#EEE5DE	238	229	222
582	seashell3	#CDC5BF	205	197	191
583	seashell4	#8B8682	139	134	130
584	sienna	#A0522D	160	82	45
585	sienna1	#FF8247	255	130	71
586	sienna2	#EE7942	238	121	66
587	sienna3	#CD6839	205	104	57
588	sienna4	#8B4726	139	71	38
589	skyblue	#87CEEB	135	206	235
590	skyblue1	#87CEFF	135	206	255
591	skyblue2	#7EC0EE	126	192	238
592	skyblue3	#6CA6CD	108	166	205
593	skyblue4	#4A708B	74	112	139
594	slateblue	#6A5ACD	106	90	205
595	slateblue1	#836FFF	131	111	255
596	slateblue2	#7A67EE	122	103	238
597	slateblue3	#6959CD	105	89	205
598	slateblue4	#473C8B	71	60	139
599	slategray	#708090	112	128	144
600	slategray1	#C6E2FF	198	226	255

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601	slategray2	#B9D3EE	185	211	238
602	slategray3	#9FB6CD	159	182	205
603	slategray4	#6C7B8B	108	123	139
604	slategrey	#708090	112	128	144
605	snow	#FFFAFA	255	250	250
606	snow1	#FFFAFA	255	250	250
607	snow2	#EEE9E9	238	233	233
608	snow3	#CDC9C9	205	201	201
609	snow4	#8B8989	139	137	137
610	springgreen	#00FF7F	0	255	127
611	springgreen1	#00FF7F	0	255	127
612	springgreen2	#00EE76	0	238	118
613	springgreen3	#00CD66	0	205	102
614	springgreen4	#008B45	0	139	69
615	steelblue	#4682B4	70	130	180
616	steelblue1	#63B8FF	99	184	255
617	steelblue2	#5CACEE	92	172	238
618	steelblue3	#4F94CD	79	148	205
619	steelblue4	#36648B	54	100	139
620	tan	#D2B48C	210	180	140
621	tan1	#FFA54F	255	165	79
622	tan2	#EE9A49	238	154	73
623	tan3	#CD853F	205	133	63
624	tan4	#8B5A2B	139	90	43
625	thistle	#D8BFD8	216	191	216
626	thistle1	#FFE1FF	255	225	255
627	thistle2	#EED2EE	238	210	238
628	thistle3	#CDB5CD	205	181	205
629	thistle4	#8B7B8B	139	123	139
630	tomato	#FF6347	255	99	71
631	tomato1	#FF6347	255	99	71
632	tomato2	#EE5C42	238	92	66
633	tomato3	#CD4F39	205	79	57
634	tomato4	#8B3626	139	54	38
635	turquoise	#40E0D0	64	224	208
636	turquoise1	#00F5FF	0	245	255
637	turquoise2	#00E5EE	0	229	238
638	turquoise3	#00C5CD	0	197	205
639	turquoise4	#00868B	0	134	139
640	violet	#EE82EE	238	130	238
641	violetred	#D02090	208	32	144
642	violetred1	#FF3E96	255	62	150
643	violetred2	#EE3A8C	238	58	140
644	violetred3	#CD3278	205	50	120
645	violetred4	#8B2252	139	34	82
646	wheat	#F5DEB3	245	222	179
647	wheat1	#FFE7BA	255	231	186
648	wheat2	#EED8AE	238	216	174
649	wheat3	#CDBA96	205	186	150
650	wheat4	#8B7E66	139	126	102

651	whitesmoke	#F5F5F5	245	245	245
652	yellow	#FFFF00	255	255	0
653	yellow1	#FFFF00	255	255	0
654	yellow2	#EEEE00	238	238	0
655	yellow3	#CDCD00	205	205	0
656	yellow4	#8B8B00	139	139	0
657	yellowgreen	#9ACD32	154	205	50