

Color Palettes

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Author

G. D. Brettschneider: Color Palettes (2004)
<http://www.Gerolf.org>

Literature

Victor S. Engel: The Browser Safe Palette (1996)
<http://the-light.com/netcol.html>
Tay Vaughan: Color for the Web (1996)
<http://www.timestream.com/mmedia/graphics/colors/colors.html>
Stefan Münz: Farben definieren in HTML (2001)
<http://selfhtml.teamone.de>

Decimal and hexadecimal numbers

$\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}_{10}$
 $= \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F\}_{16}$

Linear Color Palette (Standard)

$$\begin{aligned} \{red, green, blue\} &= \{0\%, 20\%, 40\%, 60\%, 80\%, 100\%\}_{10} \\ &=> \{RED, GREEN, BLUE\} = 255_{10} \cdot \{red, green, blue\} \\ &= \{0, 51, 102, 153, 204, 255\}_{10} = \{00, 33, 66, 99, CC, FF\}_{16} \end{aligned}$$

#000000	#000033	#000066	#000099	#0000CC	#0000FF
#330000	#330033	#330066	#330099	#3300CC	#3300FF
#660000	#660033	#660066	#660099	#6600CC	#6600FF
#990000	#990033	#990066	#990099	#9900CC	#9900FF
#CC0000	#CC0033	#CC0066	#CC0099	#CC00CC	#CC00FF
#FF0000	#FF0033	#FF0066	#FF0099	#FF00CC	#FF00FF
#003300	#003333	#003366	#003399	#0033CC	#0033FF
#333300	#333333	#333366	#333399	#3333CC	#3333FF
#663300	#663333	#663366	#663399	#6633CC	#6633FF
#993300	#993333	#993366	#993399	#9933CC	#9933FF
#CC3300	#CC3333	#CC3366	#CC3399	#CC33CC	#CC33FF
#FF3300	#FF3333	#FF3366	#FF3399	#FF33CC	#FF33FF
#006600	#006633	#006666	#006699	#0066CC	#0066FF
#336600	#336633	#336666	#336699	#3366CC	#3366FF
#666600	#666633	#666666	#666699	#6666CC	#6666FF
#996600	#996633	#996666	#996699	#9966CC	#9966FF
#CC6600	#CC6633	#CC6666	#CC6699	#CC66CC	#CC66FF
#FF6600	#FF6633	#FF6666	#FF6699	#FF66CC	#FF66FF
#009900	#009933	#009966	#009999	#0099CC	#0099FF
#339900	#339933	#339966	#339999	#3399CC	#3399FF
#669900	#669933	#669966	#669999	#6699CC	#6699FF
#999900	#999933	#999966	#999999	#9999CC	#9999FF
#CC9900	#CC9933	#CC9966	#CC9999	#CC99CC	#CC99FF
#FF9900	#FF9933	#FF9966	#FF9999	#FF99CC	#FF99FF
#00CC00	#00CC33	#00CC66	#00CC99	#00CCCC	#00CCFF
#33CC00	#33CC33	#33CC66	#33CC99	#33CCCC	#33CCFF
#66CC00	#66CC33	#66CC66	#66CC99	#66CCCC	#66CCFF
#99CC00	#99CC33	#99CC66	#99CC99	#99CCCC	#99CCFF
#CCCC00	#CCCC33	#CCCC66	#CCCC99	#CCCCCC	#CCCCFF
#FFCC00	#FFCC33	#FFCC66	#FFCC99	#FFCCCC	#FFCCFF
#00FF00	#00FF33	#00FF66	#00FF99	#00FFCC	#00FFFF
#33FF00	#33FF33	#33FF66	#33FF99	#33FFCC	#33FFFF
#66FF00	#66FF33	#66FF66	#66FF99	#66FFCC	#66FFFF
#99FF00	#99FF33	#99FF66	#99FF99	#99FFCC	#99FFFF
#CCFF00	#CCFF33	#CCFF66	#CCFF99	#CCFFCC	#CCFFFF
#FFFF00	#FFFF33	#FFFF66	#FFFF99	#FFFFCC	#FFFFFF

Logarithmic Color Palette

$$\begin{aligned} \{red, green, blue\} &= \{0\%, 20\%, 40\%, 60\%, 80\%, 100\%\}_{10} \\ \Rightarrow \{RED, GREEN, BLUE\} &= 255_{10} \cdot \ln(1 + \{red, green, blue\}) / \ln 2 \\ &= \{0, 67, 124, 173, 216, 255\}_{10} = \{00, 43, 7C, AD, D8, FF\}_{16} \end{aligned}$$

#000000	#000043	#00007C	#0000AD	#0000D8	#0000FF
#430000	#430043	#43007C	#4300AD	#4300D8	#4300FF
#7C0000	#7C0043	#7C007C	#7C00AD	#7C00D8	#7C00FF
#AD0000	#AD0043	#AD007C	#AD00AD	#AD00D8	#AD00FF
#D80000	#D80043	#D8007C	#D800AD	#D800D8	#D800FF
#FF0000	#FF0043	#FF007C	#FF00AD	#FF00D8	#FF00FF
#004300	#004343	#00437C	#0043AD	#0043D8	#0043FF
#434300	#434343	#43437C	#4343AD	#4343D8	#4343FF
#7C4300	#7C4343	#7C437C	#7C43AD	#7C43D8	#7C43FF
#AD4300	#AD4343	#AD437C	#AD43AD	#AD43D8	#AD43FF
#D84300	#D84343	#D8437C	#D843AD	#D843D8	#D843FF
#FF4300	#FF4343	#FF437C	#FF43AD	#FF43D8	#FF43FF
#007C00	#007C43	#007C7C	#007CAD	#007CD8	#007CFF
#437C00	#437C43	#437C7C	#437CAD	#437CD8	#437CFF
#7C7C00	#7C7C43	#7C7C7C	#7C7CAD	#7C7CD8	#7C7CFF
#AD7C00	#AD7C43	#AD7C7C	#AD7CAD	#AD7CD8	#AD7CFF
#D87C00	#D87C43	#D87C7C	#D87CAD	#D87CD8	#D87CFF
#FF7C00	#FF7C43	#FF7C7C	#FF7CAD	#FF7CD8	#FF7CFF
#00AD00	#00AD43	#00AD7C	#00ADAD	#00ADD8	#00ADFF
#43AD00	#43AD43	#43AD7C	#43ADAD	#43ADD8	#43ADFF
#7CAD00	#7CAD43	#7CAD7C	#7CADAD	#7CADD8	#7CADFF
#ADAD00	#ADAD43	#ADAD7C	#ADADAD	#ADADD8	#ADADFF
#D8AD00	#D8AD43	#D8AD7C	#D8ADAD	#D8ADD8	#D8ADFF
#FFAD00	#FFAD43	#FFAD7C	#FFADAD	#FFADD8	#FFADFF
#00D800	#00D843	#00D87C	#00D8AD	#00D8D8	#00D8FF
#43D800	#43D843	#43D87C	#43D8AD	#43D8D8	#43D8FF
#7CD800	#7CD843	#7CD87C	#7CD8AD	#7CD8D8	#7CD8FF
#ADD800	#ADD843	#ADD87C	#ADD8AD	#ADD8D8	#ADD8FF
#D8D800	#D8D843	#D8D87C	#D8D8AD	#D8D8D8	#D8D8FF
#FFD800	#FFD843	#FFD87C	#FFD8AD	#FFD8D8	#FFD8FF
#00FF00	#00FF43	#00FF7C	#00FFAD	#00FFD8	#00FFFF
#43FF00	#43FF43	#43FF7C	#43FFAD	#43FFD8	#43FFFF
#7CFF00	#7CFF43	#7CFF7C	#7CFFAD	#7CFFD8	#7CFFFF
#ADFF00	#ADFF43	#ADFF7C	#ADFFAD	#ADFFD8	#ADFFFF
#D8FF00	#D8FF43	#D8FF7C	#D8FFAD	#D8FFD8	#D8FFFF
#FFFF00	#FFFF43	#FFFF7C	#FFFFAD	#FFFFD8	#FFFFFF

Square Root Color Palette

$$\begin{aligned} \{red, green, blue\} &= \{0\%, 20\%, 40\%, 60\%, 80\%, 100\%\}_{10} \\ \Rightarrow \{RED, GREEN, BLUE\} &= 255_{10} \cdot \{red, green, blue\}^{1/2} \\ &= \{0, 114, 161, 198, 228, 255\}_{10} = \{00, 72, A1, C6, E4, FF\}_{16} \end{aligned}$$

#000000	#000072	#0000A1	#0000C6	#0000E4	#0000FF
#720000	#720072	#7200A1	#7200C6	#7200E4	#7200FF
#A10000	#A10072	#A100A1	#A100C6	#A100E4	#A100FF
#C60000	#C60072	#C600A1	#C600C6	#C600E4	#C600FF
#E40000	#E40072	#E400A1	#E400C6	#E400E4	#E400FF
#FF0000	#FF0072	#FF00A1	#FF00C6	#FF00E4	#FF00FF
#007200	#007272	#0072A1	#0072C6	#0072E4	#0072FF
#727200	#727272	#7272A1	#7272C6	#7272E4	#7272FF
#A17200	#A17272	#A172A1	#A172C6	#A172E4	#A172FF
#C67200	#C67272	#C672A1	#C672C6	#C672E4	#C672FF
#E47200	#E47272	#E472A1	#E472C6	#E472E4	#E472FF
#FF7200	#FF7272	#FF72A1	#FF72C6	#FF72E4	#FF72FF
#00A100	#00A172	#00A1A1	#00A1C6	#00A1E4	#00A1FF
#72A100	#72A172	#72A1A1	#72A1C6	#72A1E4	#72A1FF
#A1A100	#A1A172	#A1A1A1	#A1A1C6	#A1A1E4	#A1A1FF
#C6A100	#C6A172	#C6A1A1	#C6A1C6	#C6A1E4	#C6A1FF
#E4A100	#E4A172	#E4A1A1	#E4A1C6	#E4A1E4	#E4A1FF
#FFA100	#FFA172	#FFA1A1	#FFA1C6	#FFA1E4	#FFA1FF
#00C600	#00C672	#00C6A1	#00C6C6	#00C6E4	#00C6FF
#72C600	#72C672	#72C6A1	#72C6C6	#72C6E4	#72C6FF
#A1C600	#A1C672	#A1C6A1	#A1C6C6	#A1C6E4	#A1C6FF
#C6C600	#C6C672	#C6C6A1	#C6C6C6	#C6C6E4	#C6C6FF
#E4C600	#E4C672	#E4C6A1	#E4C6C6	#E4C6E4	#E4C6FF
#FFC600	#FFC672	#FFC6A1	#FFC6C6	#FFC6E4	#FFC6FF
#00E400	#00E472	#00E4A1	#00E4C6	#00E4E4	#00E4FF
#72E400	#72E472	#72E4A1	#72E4C6	#72E4E4	#72E4FF
#A1E400	#A1E472	#A1E4A1	#A1E4C6	#A1E4E4	#A1E4FF
#C6E400	#C6E472	#C6E4A1	#C6E4C6	#C6E4E4	#C6E4FF
#E4E400	#E4E472	#E4E4A1	#E4E4C6	#E4E4E4	#E4E4FF
#FFE400	#FFE472	#FFE4A1	#FFE4C6	#FFE4E4	#FFE4FF
#00FF00	#00FF72	#00FFA1	#00FFC6	#00FFE4	#00FFFF
#72FF00	#72FF72	#72FFA1	#72FFC6	#72FFE4	#72FFFF
#A1FF00	#A1FF72	#A1FFA1	#A1FFC6	#A1FFE4	#A1FFFF
#C6FF00	#C6FF72	#C6FFA1	#C6FFC6	#C6FFE4	#C6FFFF
#E4FF00	#E4FF72	#E4FFA1	#E4FFC6	#E4FFE4	#E4FFFF
#FFFF00	#FFFF72	#FFFAA1	#FFFFC6	#FFFFE4	#FFFFFF

Cubic Root Color Palette

$$\begin{aligned} \{red, green, blue\} &= \{0\%, 20\%, 40\%, 60\%, 80\%, 100\%\}_{10} \\ \Rightarrow \{RED, GREEN, BLUE\} &= 255_{10} \cdot \{red, green, blue\}^{1/3} \\ &= \{0, 149, 188, 215, 237, 255\}_{10} = \{00, 95, BC, D7, ED, FF\}_{16} \end{aligned}$$

#000000	#000095	#0000BC	#0000D7	#0000ED	#0000FF
#950000	#950095	#9500BC	#9500D7	#9500ED	#9500FF
#BC0000	#BC0095	#BC00BC	#BC00D7	#BC00ED	#BC00FF
#D70000	#D70095	#D700BC	#D700D7	#D700ED	#D700FF
#ED0000	#ED0095	#ED00BC	#ED00D7	#ED00ED	#ED00FF
#FF0000	#FF0095	#FF00BC	#FF00D7	#FF00ED	#FF00FF
#009500	#009595	#0095BC	#0095D7	#0095ED	#0095FF
#959500	#959595	#9595BC	#9595D7	#9595ED	#9595FF
#BC9500	#BC9595	#BC95BC	#BC95D7	#BC95ED	#BC95FF
#D79500	#D79595	#D795BC	#D795D7	#D795ED	#D795FF
#ED9500	#ED9595	#ED95BC	#ED95D7	#ED95ED	#ED95FF
#FF9500	#FF9595	#FF95BC	#FF95D7	#FF95ED	#FF95FF
#00BC00	#00BC95	#00BCBC	#00BCD7	#00BCED	#00BCFF
#95BC00	#95BC95	#95BCBC	#95BCD7	#95BCED	#95BCFF
#BCBC00	#BCBC95	#BCBCBC	#BCBCD7	#BCBCED	#BCBCFF
#D7BC00	#D7BC95	#D7BCBC	#D7BCD7	#D7BCED	#D7BCFF
#EDBC00	#EDBC95	#EDBCBC	#EDBCD7	#EDBCED	#EDBCFF
#FFBC00	#FFBC95	#FFBCBC	#FFBCD7	#FFBCED	#FFBCFF
#00D700	#00D795	#00D7BC	#00D7D7	#00D7ED	#00D7FF
#95D700	#95D795	#95D7BC	#95D7D7	#95D7ED	#95D7FF
#BCD700	#BCD795	#BCD7BC	#BCD7D7	#BCD7ED	#BCD7FF
#D7D700	#D7D795	#D7D7BC	#D7D7D7	#D7D7ED	#D7D7FF
#EDD700	#EDD795	#EDD7BC	#EDD7D7	#EDD7ED	#EDD7FF
#FFD700	#FFD795	#FFD7BC	#FFD7D7	#FFD7ED	#FFD7FF
#00ED00	#00ED95	#00EDBC	#00EDD7	#00EDED	#00EDFF
#95ED00	#95ED95	#95EDBC	#95EDD7	#95EDED	#95EDFF
#BCED00	#BCED95	#BCEDBC	#BCEDD7	#BCEDED	#BCEDFF
#D7ED00	#D7ED95	#D7EDBC	#D7EDD7	#D7EDED	#D7EDFF
#EDED00	#EDED95	#EDEDBC	#EDED D7	#EDED ED	#EDED FF
#FFED00	#FFED95	#FFEDBC	#FFEDD7	#FFEDED	#FFEDFF
#00FF00	#00FF95	#00FFBC	#00FFD7	#00FFED	#00FFFF
#95FF00	#95FF95	#95FFBC	#95FFD7	#95FFED	#95FFFF
#BCFF00	#BCFF95	#BCFFBC	#BCFFD7	#BCFFED	#BCFFFF
#D7FF00	#D7FF95	#D7FFBC	#D7FFD7	#D7FFED	#D7FFFF
#EDFF00	#EDFF95	#EDFFBC	#EDFFD7	#EDFFED	#EDFFFF
#FFFF00	#FFFF95	#FFFFBC	#FFFFD7	#FFFFED	#FFFFFF

Named Colors Palette

Only the 16 names written in **boldface** type are mentioned in HTML 4.01.

Out of 128 given colors, 8 do not fit into a $4_R \times 6_G \times 5_B$ table, e. g. **brown**, **seagreen**, **olivedrab**, **lawngreen**, **darkslategray**, **slategray**, **gainsboro**, **honeydew**.

black	midnightblue	navy	mediumblue	blue
maroon	purple	darkslateblue	darkviolet	mediumslateblue
firebrick	indianred	darkorchid	mediumorchid	blueviolet
red	tomato	deeppink	orchid	fuchsia/magenta
saddlebrown	dimgray	steelblue	royalblue	deepskyblue
sienna	gray	slateblue	cornflowerblue	dodgerblue
chocolate	lightcoral	palevioletred	mediumpurple	lavender
orangered	coral	hotpink	mistyrose	violet
darkgreen	teal	cadetblue	darkturquoise	skyblue
darkolivegreen	rosybrown	lightslategray	lightsteelblue	paleturquoise
darkgoldenrod	peru	silver	plum	oldlace
darkorange	salmon	lightpink	antiquewhite	lavenderblush
green	mediumseagreen	lightseagreen	turquoise	lightskyblue
olive	tan	mediumaquamarine	lightblue	aliceblue
goldenrod	darksalmon	wheat	thistle	whitesmoke
orange	lightsalmon	pink	papayawhip	floralwhite
forestgreen	darkseagreen	mediumturquoise	aquamarine	lightcyan
limegreen	darkkhaki	peachpuff	powderblue	ghostwhite
yellowgreen	burlywood	navajowhite	beige	seashell
gold	sandybrown	moccasin	cornsilk	ivory
lime	springgreen	palegoldenrod	aqua/cyan	azure
chartreuse	mediumspringgreen	bisque	linen	mintcream
greenyellow	palegreen	blanchedalmond	lightgoldenrodyellow	snow
yellow	khaki	lemonchiffon	lightyellow	white