

HTML Programming Part 3 - Colors

HTML Color Codes:

In **HTML** colors can be added by using **style** attributes. You can specify a color by its name, its **hexadecimal** value, or its **RGB** value. Although novice programmers will probably find it a lot easier to specify colors by their names rather than trying to remember all the different **hexadecimal** or **RGB** values; however both **hexadecimal** and **RGB** color values provide more color options.





























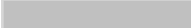
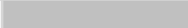




Moreover, **Hexadecimal** and **RGB** color values provide a choice of over 16 million different colors. Each different value represents a slightly different color; however every computer shows colors differently; therefore the a common set of colors known as web safe colors are used by web designers and programers.

Hexadecimal color codes are made up of a combination of letters and numbers. When using **hexadecimal** color values are preceded with a hash (#) in your HTML or CSS code.

RGB color codes are made up of 3 values for the red, green and blue channels. **RGB** values are written as **rgb(__,__)** with each channels value being written inside the parentheses and are separated by commas, which each channel having a value between 0 and 255. An **alpha channel** can also be added to an **RGB** color value to add opacity. This is written as **rgba(__,__)** with the alpha value being inserted after the blue channel. Values for alpha channels are between 0.0 and 1.0.

The follow **Generic Web Safe Colors** chart shows 17 basic web safe colors names as specified by the CSS 2.1 specification, along with their corresponding **hexadecimal** and **RGB** values.

Generic Web Safe Colors

	Color Name	Hex Code	Decimal Code RGB	
	Maroon	800000	128,0,0	
	Red	FF0000	255,0,0	
	Orange	FFA500	255,165,0	
	Yellow	FFFF00	255,255,0	
	Olive	808000	128,128,0	
	Green	8000	0,128,0	
	Purple	800080	128,0,128	
	Fuchsia	FF00FF	255,0,255	
	Lime	00FF00	0,255,0	
	Teal	8080	128,128	
	Aqua	00FFFF	255,255	
	Blue	0000FF	0,0,255	
	Navy	80	0,0,128	
	Black	0	0,0,0	
	Gray	808080	128,128,128	
	Silver	C0C0C0	192,192,192	
	White	FFFFFF	255,255,255	

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Syntax:

Styles are used to add **color attributes** to various **HTML tags**. Color **styles** can be applied to apply **color attributes** to different block level elements such as a **DIV tag** `<div>`, or to different **flow content tags** such as a **paragraph tag** `<p>`, or **heading tag** `<h_>`. To add color to an **HTML element** you use a **style attribute** which is written as **style="color: _____"** with the **style attribute** being added inside of the **opening tag** of an **HTML element**.

Several common color style additions include:

Change the color of the text:	style="color: _____"
Adding a color boarder:	style="border: __px _____ solid;"
Add a HEX background color:	style="background-color:# _____"
Add a RGB background color:	style="background-color:rgb(____,____,____)"
Transparent RGB background:	style="background-color:rgba(____,____,____,____)"

Example:

```
<!doctype html>
<html>
  <head>
    <title> The websites title goes here. </title>
    <!--Change the title of the document to your first and last name for this activity-->
  </head>

  <main style="width:640px;text-align:center" >
    <!--The "main tag" acts as a container for the other HTML elements in this example.-->
    <!--Since "text-align:centre" is applied to this tag all other text tags inside the main tag will be centered.-->

    <h4 style="color:blue">HTML Text Colors</h4>
    <!--By adding style="color:_____" to the opening "<h>" color is added to the text within the "heading tags".-->

    <h3 style="background-color:aqua",>HTML Color Backgrounds</h3>
    <!--To apply color to the background the attribute style="background-color: _____" is added-->

    <h3 style="border:1px #0000FF solid;">HTML Color Boarders</h3>
    <!--Color can be added to a tags boarder using the style attribute style="border: __px _____ solid;".-->

    <h3 style="background-color:rgb(255,0,0)">Red background, RGB value, no alpha channel</h3>
    <h3 style="background-color:rgba(255,0,0,1)">Red background, RGBA value, alpha channel set to 1</h3>
    <h3 style="background-color:rgba(255,0,0,.5)">Red background, RGBA value, alpha channel set to .5</h3>
    <!--Transparency can be added to an RGB color value by adding the "alpha channel" variable.-->
    <!--Change the colors in each of the example in this document to a we-safe color that you like. -->
    <!--Make sure the colors that you choose are different form those used in the original examples.-->



















  </main>
</html>
```

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X11 Colors:

The following **X11 colors** are supported by all major browsers. These colors have been identified to be appear similar under standard viewing conditions on a variety of real-world monitors even without the use of color management software; therefore these colors are described as having an unambiguous (not open to more than one interpretation) colorimetric definition which is identical on both Mac and PC computer platforms.



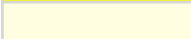
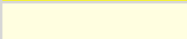








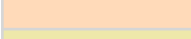
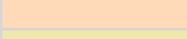






Reds

	Color Name	Hex Code	Decimal Code RGB	
	IndianRed	CD5C5C	205,92,92	
	LightCoral	F08080	240,128,128	
	Salmon	FA8072	250,128,114	
	DarkSalmon	E9967A	233,150,122	
	LightSalmon	FFA07A	255,160,122	
	Crimson	DC143C	220,20,60	
	Red	FF0000	255,0,0	
	FireBrick	B22222	178,34,34	
	DarkRed	8B0000	139,0,0	

Oranges

	Color Name	Hex Code	Decimal Code RGB	
	Tomato	FF6347	255,99,71	
	OrangeRed	FF4500	255,69,0	
	DarkOrange	FF8C00	255,140,0	
	Orange	FFA500	255,165,0	

Yellows

	Color Name	Hex Code	Decimal Code RGB	
	Yellow	FFFF00	255,255,0	
	LightYellow	FFFFE0	255,255,224	
	LemonChiffon	FFFACD	255,250,205	
	LightGoldenrodYellow	FAFAD2	250,250,210	
	PapayaWhip	FFEFD5	255,239,213	
	Moccasin	FFE4B5	255,228,181	
	PeachPuff	FFDAB9	255,218,185	
	PaleGoldenrod	EEE8AA	238,232,170	
	Khaki	F0E68C	240,230,140	
	DarkKhaki	BDB76B	189,183,107	

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Greens













Color Name	Hex Code	Decimal Code RGB	
GreenYellow	AFFF2F	173,255,47	
Chartreuse	7FFF00	127,255,0	
LawnGreen	7CFC00	124,252,0	
Lime	00FF00	0,255,0	
LimeGreen	32CD32	50,205,50	
PaleGreen	98FB98	152,251,152	
LightGreen	90EE90	144,238,144	
MediumSpringGreen	00FA9A	250,154	
SpringGreen	00FF7F	255,127	
MediumSeaGreen	3CB371	60,179,113	
SeaGreen	2E8B57	46,139,87	
ForestGreen	228B22	34,139,34	
Green	8000	0,128,0	
DarkGreen	6400	0,100,0	
YellowGreen	9ACD32	154,205,50	
OliveDrab	6B8E23	107,142,35	
Olive	808000	128,128,0	
DarkOliveGreen	556B2F	85,107,47	
MediumAquamarine	66CDAA	102,205,170	
DarkSeaGreen	8FBC8F	143,188,143	
LightSeaGreen	20B2AA	32,178,170	
DarkCyan	008B8B	139,139	
Teal	8080	128,128	

Blues



















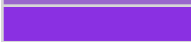
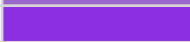


















Color Name	Hex Code	Decimal Code RGB	
Cyan	00FFFF	255,255	
LightCyan	E0FFFF	224,255,255	
PaleTurquoise	AFEEEE	175,238,238	
Aquamarine	7FFFD4	127,255,212	
Turquoise	40E0D0	64,224,208	
MediumTurquoise	48D1CC	72,209,204	
DarkTurquoise	00CED1	206,209	
CadetBlue	5F9EA0	95,158,160	
SteelBlue	4682B4	70,130,180	
LightSteelBlue	B0C4DE	176,196,222	
PowderBlue	B0E0E6	176,224,230	
LightBlue	ADD8E6	173,216,230	
SkyBlue	87CEEB	135,206,235	
LightSkyBlue	87CEFA	135,206,250	
DeepSkyBlue	00BFFF	191,255	
DodgerBlue	1E90FF	30,144,255	
CornflowerBlue	6495ED	100,149,237	
MediumSlateBlue	7B68EE	123,104,238	
RoyalBlue	4.169e+04	65,105,225	
Blue	0000FF	0,0,255	
MediumBlue	0000CD	0,0,205	
DarkBlue	00008B	0,0,139	
Navy	80	0,0,128	
MidnightBlue	191970	25,25,112	

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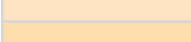
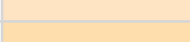
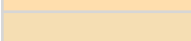
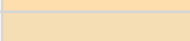


























Pinks

	Color Name	Hex Code	Decimal Code RGB	
	Pink	FFC0CB	255,192,203	
	LightPink	FFB6C1	255,182,193	
	HotPink	FF69B4	255,105,180	
	DeepPink	FF1493	255,20,147	
	MediumVioletRed	C71585	199,21,133	
	PaleVioletRed	DB7093	219,112,147	

Purples

	Color Name	Hex Code	Decimal Code RGB	
	Lavender	E6E6FA	230,230,250	
	Thistle	D8BFD8	216,191,216	
	Plum	DDA0DD	221,160,221	
	Violet	EE82EE	238,130,238	
	Orchid	DA70D6	218,112,214	
	Fuchsia	FF00FF	255,0,255	
	Magenta	FF00FF	255,0,255	
	MediumOrchid	BA55D3	186,85,211	
	MediumPurple	9370DB	147,112,219	
	Amethyst	9966CC	153,102,204	
	BlueViolet	8A2BE2	138,43,226	
	DarkViolet	9400D3	148,0,211	
	DarkOrchid	9932CC	153,50,204	
	DarkMagenta	8B008B	139,0,139	
	Purple	800080	128,0,128	
	Indigo	4B0082	75,0,130	
	SlateBlue	6A5ACD	106,90,205	
	DarkSlateBlue	483D8B	72,61,139	
	MediumSlateBlue	7B68EE	123,104,238	

Browns

	Color Name	Hex Code	Decimal Code RGB	
	Cornsilk	FFF8DC	255,248,220	
	BlanchedAlmond	FFEBCD	255,235,205	
	Bisque	FFE4C4	255,228,196	
	NavajoWhite	FFDEAD	255,222,173	
	Wheat	F5DEB3	245,222,179	
	BurlyWood	DEB887	222,184,135	
	Tan	D2B48C	210,180,140	
	RosyBrown	BC8F8F	188,143,143	
	SandyBrown	F4A460	244,164,96	
	Goldenrod	DAA520	218,165,32	
	DarkGoldenrod	B8860B	184,134,11	
	Peru	CD853F	205,133,63	
	Chocolate	D2691E	210,105,30	
	SaddleBrown	8B4513	139,69,19	
	Sienna	A0522D	160,82,45	
	Brown	A52A2A	165,42,42	
	Maroon	800000	128,0,0	

Whites

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Color Name	Hex Code	Decimal Code RGB	
White	FFFFFF	255,255,255	
Snow	FFFAFA	255,250,250	
Honeydew	F0FFF0	240,255,240	
MintCream	F5FFFA	245,255,250	
Azure	F0FFFF	240,255,255	
AliceBlue	F0F8FF	240,248,255	
GhostWhite	F8F8FF	248,248,255	
WhiteSmoke	F5F5F5	245,245,245	
Seashell	FFF5EE	255,245,238	
Beige	F5F5DC	245,245,220	
OldLace	FDF5E6	253,245,230	
FloralWhite	FFFAF0	255,250,240	
Ivory	FFFFF0	255,255,240	
AntiqueWhite	FAEBD7	250,235,215	
Linen	FAF0E6	250,240,230	
LavenderBlush	FFF0F5	255,240,245	
MistyRose	FFE4E1	255,228,225	

Grays

Color Name	Hex Code	Decimal Code RGB	
Gainsboro	DCDCDC	220,220,220	
LightGrey	D3D3D3	211,211,211	
Silver	C0C0C0	192,192,192	
DarkGray	A9A9A9	169,169,169	
Gray	808080	128,128,128	
DimGray	696969	105,105,105	
LightSlateGray	778899	119,136,153	
SlateGray	708090	112,128,144	
DarkSlateGray	2F4F4F	47,79,79	
Black	0	0,0,0	