HTML - Colors

HTML colors are a way of specifying the appearance of web elements. They are very important aspects of web design, as they not only enhance the visual appeal but also influence user behavior. They are also used to evoke emotions and highlight important content.

In HTML, colors are generally defined for backgrounds, borders, and texts. To specify the colors, the **style** attribute of HTML elements is used.

HTML Color Coding Methods

The following three methods are used to set colors in a web page −

- **Color names** − We can specify color names directly, like green, blue, or red.
- **Hex codes** − A six-digit code representing the amount of red, green, and blue that makes up the color.
- **Color decimal or percentage values** − This value is specified using the **rgb()** property.

We will learn these color coding methods in upcoming chapters.

HTML Color Names

We can specify a direct color name to set text or background color. W3C has listed 16 basic color names that will validate with an HTML validator, but there are over 200 different color names supported by major browsers.

Find the full list of the supported color names in HTML: HTML Color Names

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W3C Standard 16 Colors

The following are the W3C standard color names that are supported by all browsers:

	Black		Gray		Silver		White
	Yellow		Lime		Aqua		Fuchsia
	Red		Green		Blue		Purple
	Maroon		Olive		Navy		Teal

Example

Here is an example showing how you can use the color names in an HTML document:

```html
<!DOCTYPE html>
<html>
<head>
    <title>HTML Colors by Name</title>
</head>
<body text="blue" bgcolor="green">
    <p>Use different color names for for body and table and see the result.</p>
    <table bgcolor="black">
        <tr>
            <td>
                <font color="white">This text will appear white on black background.</font>
            </td>
        </tr>
    </table>
</body>
</html>
```

Browser Safe Colors

Colors can also be specified using the web-safe colors, which are formed by the combination of red, green, and blue (RGB) hex values.

Here is a list of 216 colors that are considered the safest and most consistent across different computers. These colors range from the hexadecimal code **#000000** (black) to **#FFFFFF** (white) and are supported by all computers using a 256-color palette.

000000	000033	000066	000099	0000CC	0000FF
003300	003333	003366	003399	0033CC	0033FF
006600	006633	006666	006699	0066CC	0066FF
009900	009933	009966	009999	0099CC	0099FF
00CC00	00CC33	00CC66	00CC99	00CCCC	00CCFF
00FF00	00FF33	00FF66	00FF99	00FFCC	00FFFF
330000	330033	330066	330099	3300CC	3300FF
333300	333333	333366	333399	3333CC	3333FF
336600	336633	336666	336699	3366CC	3366FF
339900	339933	339966	339999	3399CC	3399FF
33CC00	33CC33	33CC66	33CC99	33CCCC	33CCFF

33FF00	33FF33	33FF66	33FF99	33FFCC	33FFFF
660000	660033	660066	660099	6600CC	6600FF
663300	663333	663366	663399	6633CC	6633FF
666600	666633	666666	666699	6666CC	6666FF
669900	669933	669966	669999	6699CC	6699FF
66CC00	66CC33	66CC66	66CC99	66CCCC	66CCFF
66FF00	66FF33	66FF66	66FF99	66FFCC	66FFFF
990000	990033	990066	990099	9900CC	9900FF
993300	993333	993366	993399	9933CC	9933FF
996600	996633	996666	996699	9966CC	9966FF
999900	999933	999966	999999	9999CC	9999FF
99CC00	99CC33	99CC66	99CC99	99CCCC	99CCFF
99FF00	99FF33	99FF66	99FF99	99FFCC	99FFFF
CC0000	CC0033	CC0066	CC0099	CC00CC	CC00FF
CC3300	CC3333	CC3366	CC3399	CC33CC	CC33FF
CC6600	CC6633	CC6666	CC6699	CC66CC	CC66FF
CC9900	CC9933	CC9966	CC9999	CC99CC	CC99FF
CCCC00	CCCC33	CCCC66	CCCC99	CCCCCC	CCCCFF
CCFF00	CCFF33	CCFF66	CCFF99	CCFFCC	CCFFFF
FF0000	FF0033	FF0066	FF0099	FF00CC	FF00FF
FF3300	FF3333	FF3366	FF3399	FF33CC	FF33FF
FF6600	FF6633	FF6666	FF6699	FF66CC	FF66FF
FF9900	FF9933	FF9966	FF9999	FF99CC	FF99FF
FFCC00	FFCC33	FFCC66	FFCC99	FFCCCC	FFCCFF
FFFF00	FFFF33	FFFF66	FFFF99	FFFFCC	FFFFFF

Setting Text Color

To set the text color in HTML, we specify the color value of text inside the **color** property of **style** attribute. The value of color can be specified using any of the above discussed methods.

Example

The following example shows how to set color for a text using color name method:

```html
<!DOCTYPE html>
<html>
<head>
   <title>Setting HTML Text Color </title>
</head>
<body>
   <h2 style="color: Fuchsia;">Setting Text Color in HTML</h3>
   <p style="color: Teal;">This line is created using paragraph tag and its color is
<b>Teal</b>. </p>
   <p style="color: SlateBlue;">This is another line created using paragraph tag and
its color is <b>SlateBlue</b>. </p>
</body>
</html>
```

The above HTML code will generate one heading and two different paragraphs with distinct colors.

Setting Background Color

To set the background color for any HTML element, we specify the color value inside the **background-color** property of the **style** attribute. The value of color can be specified using any of the above-discussed methods.

Example

The following example shows how to set background color for HTML elements using color name method:

```html
<!DOCTYPE html>
<html>
<head>
   <title>Background Color </title>
</head>
<body>
   <h2 style="background-color: Fuchsia;">Setting Background Color in HTML</h3>
   <p style="background-color: Teal;">This line is created using paragraph tag and its
background color is <b>Teal</b>.</p>
   <p style="background-color: SlateBlue;">This is another line created using paragraph
```

```
   tag and its background color is <b>SlateBlue</b>.</p>
 </body>
 </html>
```

On executing the above HTML code, it will generate one heading and two different paragraphs with distinct background colors.

Setting Border Color

To set the border color for any HTML element, we specify the color value inside the **border property** of the **style** attribute. The value of color can be specified using any of the above-discussed methods.

Example

In the following example, we are going to set border color for HTML elements using color name method:

</>   Open Compiler

```
<!DOCTYPE html>
<html>
<head>
   <title>Border Color </title>
</head>
<body>
   <h2 style="border: 2.5px solid Fuchsia;">Setting Border Color in HTML</h3>
   <p style="border: 2.5px dotted Teal;">This line is created using paragraph tag and
its border color is <b>Teal</b>. </p>
   <p style="border: 2.5px dashed SlateBlue;">This is another line created using
paragraph tag and its border color is <b>SlateBlue</b>. </p>
</body>
</html>
```

When we execute the above HTML code, it will generate one heading and two different paragraphs with distinct border colors.