

CSS3 - COLORS

http://www.tutorialspoint.com/css/css3_color.htm

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CSS3 has Supported additional color properties as follows –

- RGBA colors
- HSL colors
- HSLA colors
- Opacity

RGBA stands for **Red Green Blue Alpha**. It is an extension of CSS2, Alpha specifies the opacity of a color and parameter number is a numerical between 0.0 to 1.0. A Sample syntax of RGBA as shown below –

```
#d1 {background-color: rgba(255, 0, 0, 0.5);}
#d2 {background-color: rgba(0, 255, 0, 0.5);}
#d3 {background-color: rgba(0, 0, 255, 0.5);}
```

HSL stands for **huge, saturation, lightness**. Here Huge is a degree on the color wheel, saturation and lightness are percentage values between 0 to 100%. A Sample syntax of HSL as shown below –

```
#g1 {background-color: hsl(120, 100%, 50%);}
#g2 {background-color: hsl(120, 100%, 75%);}
#g3 {background-color: hsl(120, 100%, 25%);}
```

HSLA stands for **huge, saturation, lightness and alpha**. Alpha value specifies the opacity as shown RGBA. A Sample syntax of HSLA as shown below –

```
#g1 {background-color: hsla(120, 100%, 50%, 0.3);}
#g2 {background-color: hsla(120, 100%, 75%, 0.3);}
#g3 {background-color: hsla(120, 100%, 25%, 0.3);}
```

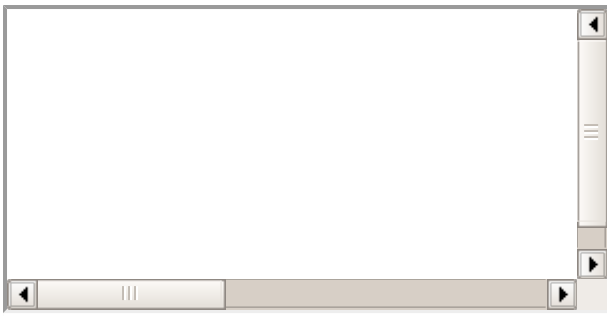
opacity is a thinner paints need black added to increase opacity. A sample syntax of opacity is as shown below –

```
#g1 {background-color:rgb(255,0,0);opacity:0.6;}
#g2 {background-color:rgb(0,255,0);opacity:0.6;}
#g3 {background-color:rgb(0,0,255);opacity:0.6;}
```

The following example shows rgba color property

```
<html>
  <head>
    <style>
      #p1 {background-color:rgba(255,0,0,0.3);}
      #p2 {background-color:rgba(0,255,0,0.3);}
      #p3 {background-color:rgba(0,0,255,0.3);}
    </style>
  </head>
  <body>
    <p>RGBA colors:</p>
    <p >Red</p>
    <p >Green</p>
    <p >Blue</p>
  </body>
</html>
```

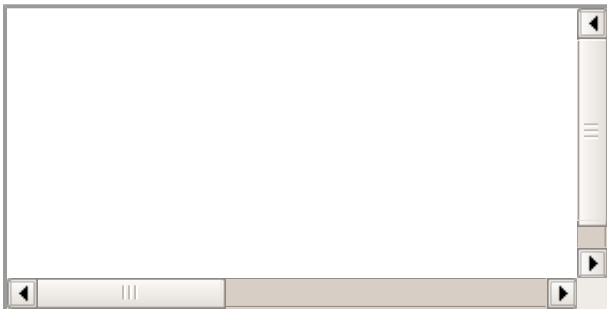
It will produce the following result –



The following example shows HSL color property

```
<html>
  <head>
    <style>
      #g1 {background-color:hsl(120, 100%, 50%);}
      #g2 {background-color:hsl(120,100%, 75%);}
      #g3 {background-color:hsl(120,100%, 25%);}
    </style>
  </head>
  <body>
    <p>HSL colors:</p>
    <p >Green</p>
    <p >Normal Green</p>
    <p >Dark Green</p>
  </body>
</html>
```

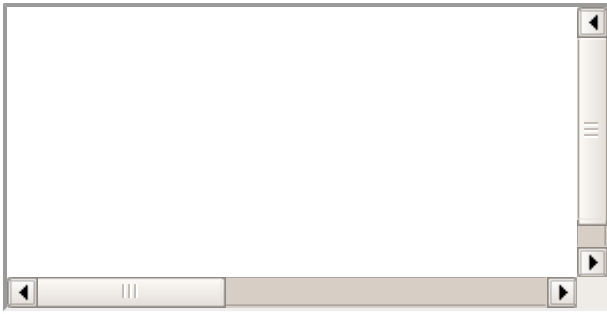
It will produce the following result –



The following example shows HSLA color property

```
<html>
  <head>
    <style>
      #d1 {background-color:hsla(120,100%,50%,0.3);}
      #d2 {background-color:hsla(120,100%, 75%,0.3);}
      #d3 {background-color:hsla(120,100%, 25%,0.3);}
    </style>
  </head>
  <body>
    <p>HSLA colors:</p>
    <p >Less opacity green</p>
    <p >Green</p>
    <p >Green</p>
  </body>
</html>
```

It will produce the following result –



The following example shows Opacity property

```
<html>
  <head>
    <style>
      #m1 {background-color:rgb(255,0,0);opacity:0.6;}
      #m2 {background-color:rgb(0,255,0);opacity:0.6;}
      #m3 {background-color:rgb(0,0,255);opacity:0.6;}
    </style>
  </head>
  <body>
    <p>HSLA colors:</p>
    <p >Red</p>
    <p >Green</p>
    <p >Blue</p>
  </body>
</html>
```

It will produce the following result –

