

CHAPTER ELEVEN III

11.3.0 CSS HEX Colors

A hexadecimal color is specified with: #RRGGBB, where the RR (red), GG (green) and BB (blue) hexadecimal integers specify the components of the color.

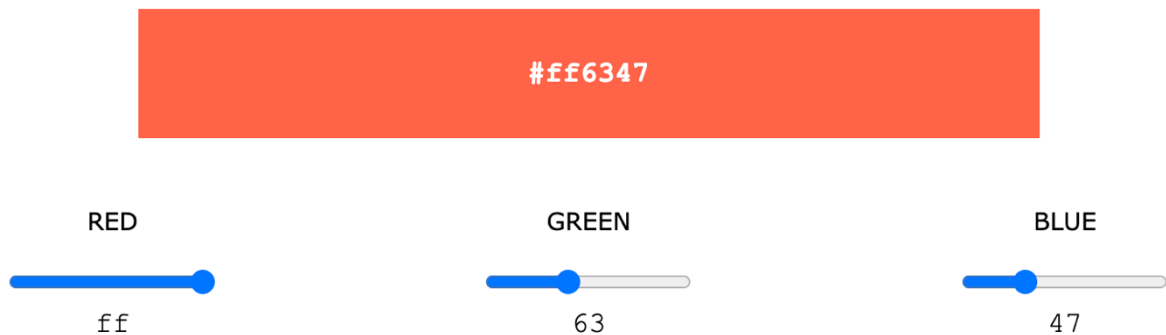
11.3.1 HEX Value

In CSS, a color can be specified using a hexadecimal value in the form: *#rrggbb*

Where rr (red), gg (green) and bb (blue) are hexadecimal values between 00 and ff (same as decimal 0-255).

For *example*, #ff0000 is displayed as red, because red is set to its highest value (ff) and the others are set to the lowest value (00).

Experiment by mixing the HEX values below:



Example

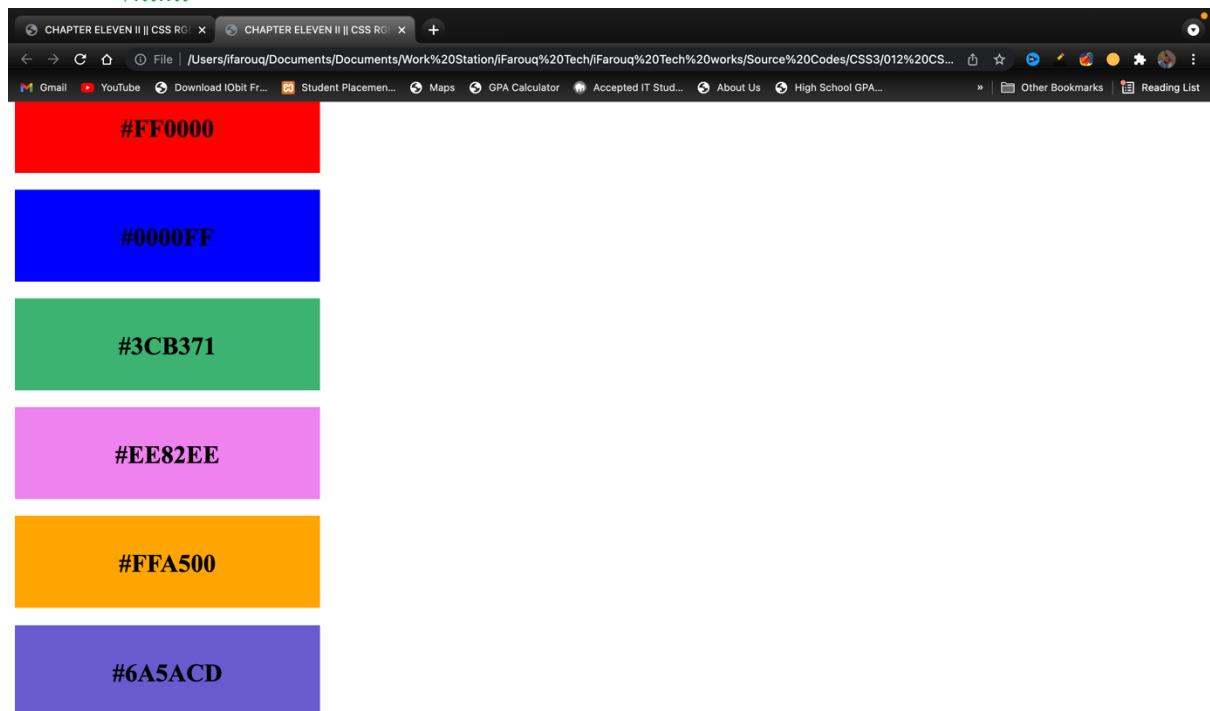


```
<!DOCTYPE html>
<html>
  <body>
```

```
    <h1 style="background-color: #ff0000;">#ff0000</h1>
    <h1 style="background-color: #0000ff;">#0000ff</h1>
    <h1 style="background-color: #3cb371;">#3cb371</h1>
    <h1 style="background-color: #ee82ee;">#ee82ee</h1>
    <h1 style="background-color: #ffa500;">#ffa500</h1>
    <h1 style="background-color: #6a5acd;">#6a5acd</h1>
```

```
    <p>In HTML, you can specify colors using Hex values. </p>
```

```
  </body>
</html>
```



In HTML, you can specify colors using HEX values.

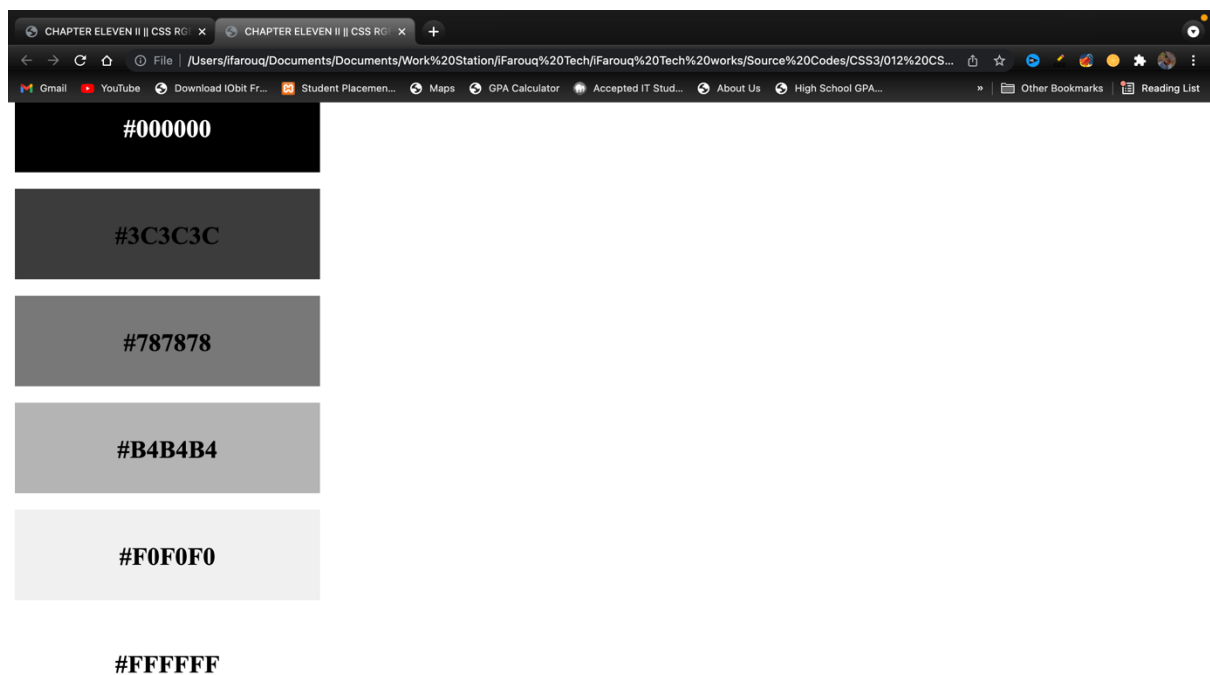
Shades of gray are often defined using equal values for all the 3 light sources:

Example



```
<!DOCTYPE html>
<html>
  <body>
    <h1 style="background-color:#000000;">#000000</h1>
    <h1 style="background-color:#3c3c3c;">#3c3c3c</h1>
    <h1 style="background-color:#787878;">#787878</h1>
    <h1 style="background-color:#b4b4b4;">#b4b4b4</h1>
    <h1 style="background-color:#f0f0f0;">#f0f0f0</h1>
    <h1 style="background-color:#ffffff;">#ffffff</h1>

    <p>By using equal values for red, green, and blue, you will get different
    shades of gray.</p>
  </body>
</html>
```



By using equal values for red, green, and blue, you will get different shades of grey.

11.3.2 3 Digit HEX Value

Sometimes you will see a 3-digit hex code in the CSS source. The 3-digit hex code is a shorthand for some 6-digit hex codes.

The 3-digit hex code has the following form: **#rgb**

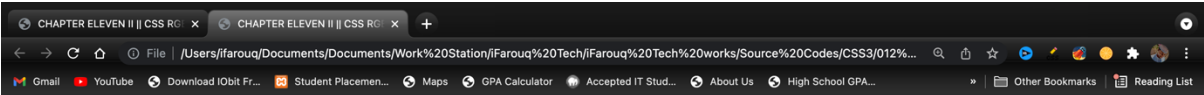
Where r, g, and b represents the red, green, and blue components with values between 0 and f.

The 3-digit hex code can only be used when both the values (RR, GG, and BB) are the same for each components. So, if we have #ff00cc, it can be written like this: #f0c.

Here is an example:

Example

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
        background-color: #fc9; /* same as #ffcc99 */
      }
      h1 {
        color: #f0f; /* same as #ff00ff */
      }
      p {
        color: #b58; /* same as #bb5588 */
      }
    </style>
  </head>
  <body>
    <h1>CSS 3-digit Hex Code</h1>
    <p>This is a paragraph.</p>
  </body>
</html>
```



CSS 3-digit HEX Code

This is a paragraph.