# CSS

Lecture 02

### **CSS Comments**

 A CSS comment starts with /\* and ends with \*/ for single line and multiline both: CSS comments are ignored by browsers

```
<html>
<head>
<style>
/* This is a single-line comment */
} q
 color: red;
</style>
</head>
<body>
Hello World!
CSS comments are not shown in the output.
</body>
</html>
```

Colors are specified using predefined color names, or RGB, HEX, HSL, RGBA, HSLA values.

### **Using color name**

```
<html>
<head>
<style>
color:red;
</style>
</head>
<body>
>
Paragraph 1
</body>
</html>
```

#### **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).

```
Using color name
<html>
<head>
<style>
color: #ff6347;
</style>
</head>
<body>
>
Paragraph 1
4 /la a al. . . . 4 /la L.aa l s
```

#### **RGB Value**

In CSS, a color can be specified as an RGB value, using this formula:

### rgb(red, green, blue)

Each parameter (red, green, and blue) defines the intensity of the color between 0 and 255.

For example, rgb(255, 0, 0) is displayed as red, because red is set to its highest value (255) and the others are set to 0.

#### **RGBA Value**

RGBA color values are an extension of RGB color values with an alpha channel - which specifies the opacity for a color.

An RGBA color value is specified with:

#### rgba(red, green, blue, alpha)

The alpha parameter is a number between 0.0 (fully transparent) and 1.0 (not transparent at all):

Experiment by mixing the RGBA values below:

```
Using RGBA
Using RGB
                             <html>
<html>
                             <head>
<head>
                             <style>
<style>
                             P
P
color:rgb(255,99,71);
                             color:rgba(255,99,71,0.
                             5);
</style>
                             </style>
</head>
                             </head>
<body>
                             <body>
>
                             >
Paragraph 1
                             Paragraph 1
</body>
                             </body>
</html>
                             </html
```

#### **HSL Value**

In CSS, a color can be specified using hue, saturation, and lightness (HSL) in the form:

#### hsl(hue, saturation, lightness)

Hue is a degree on the color wheel from 0 to 360. 0 is red, 120 is green, and 240 is blue.

Saturation is a percentage value, 0% means a shade of gray, and 100% is the full color.

Lightness is also a percentage, 0% is black, 50% is neither light or dark, 100% is white

#### **HSLA Value**

HSLA color values are an extension of HSL color values with an alpha channel - which specifies the opacity for a color.

An HSLA color value is specified with:

#### hsla(hue, saturation, lightness, alpha)

The alpha parameter is a number between 0.0 (fully transparent) and 1.0 (not transparent at all):

```
Using HSL
<html>
<head>
<style>
P
color:hsl(0, 100%,
50%, 0.5);
</style>
</head>
<body>
>
Paragraph 1
</body>
</html>
```

```
Using HSLA
<html>
<head>
<style>
color:hsla(0, 100%,
50%, 0.5);
</style>
</head>
<body>
>
Paragraph 1
</body>
</html
```

### CSS Backgrounds

The CSS background properties are used to define the background effects for elements.

In these chapters, you will learn about the following CSS background properties:

background-color background-image background-repeat

Properties background-posit	Description	Example
background- color	For adding colors in html elements Note: colors can be defined using color name, hex value, rgb, hsl, rgba, hsla	P {   background-color:red; } tr { Background-color:#22aaff; }
background- image	For adding image in backgroud	P { background- image: url("img1.jpg"); }

Properties	Description	Examples
background- repeat	By default, the background-image property repeats an image both horizontally and vertically.	body { background- image: url("img1.jpg"); background-repeat: repeat-x; }
		<pre>body { background- image: url("img1.jpg"); background-repeat: repeat-y; }</pre>
		<pre>body { background- image: url("img1.jpg"); background-repeat: no-repeat; }</pre>

<b>Properties</b>	Description	Examples
background- repeat	The background- attachment property specifies whether the background image should scroll or be fixed (will not scroll with the rest of the page)	<pre>body {   background- image: url("img.png");   background- attachment: fixed; }  body {   background- image: url("img.png");   background- attachment: scroll; }</pre>
background- position	The background- position property is used to specify the position of the background image.	<pre>body {   background- image: url("img.png"); background-position: right top; }</pre>

# CSS Background

```
<html>
<head>
<style>
body {
 background-color: #ffffff;
 background-image: url("img_tree.png");
 background-repeat: no-repeat;
 background-position: right top;
}
</style>
</head>
<body>
<h1>My Web Page</h1>
</body>
</html>
```

# Assignment

 Try out these codes by creating html files and observe the effect and send all these html files on my email.
 Please mention your name and roll number.