CSS CASCADING STYLE SHEET

- CSS is the language we use to style a Web page.
- CSS stands for Cascading Style Sheets What is CSS?
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work.
- It can control the layout of multiple web pages all External stylesheets are stored in CSS files

Why Use CSS?

CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes.

A CSS rule consists of a selector and a declaration block.
p is a selector in CSS. color is a property, and red is the property value text-align is a property value center is the property value

CSS SYNTAX

```
p {
  color: red;
  text-align: center;
}
```

CSS SELECTORS

A CSS selector selects the HTML element(s) for styling purpose. CSS selectors select HTML elements according to its id, class, type, attribute etc.

There are many basic different types of selectors.

- Element Selector
- Id Selector
- Class Selector
- Universal Selector
- Group Selector
- Attribute Selector
- Pseudo-Class Selector
- Pseudo-Element Selector

CSS TYPES

There are three types of CSS which are given

- Inline: Inline CSS contains the CSS property in the body section attached with the element known as inline CSS.
- Internal or Embedded: The CSS ruleset should be within the HTML file in the head section i.e the CSS is embedded within the HTML file.
- separate CSS file that contains a style property with the help of tag attributes.

CSS BOX MODEL

The CSS box model is essentially a box that wraps around every HTML element. It consists of: borders, padding, margins, and the actual content.

In CSS, the term "box model" is used when talking about design and layout.

The CSS box model is essentially a box that wraps around every HTML element.
It consists of: margins, borders, padding, and the actual content

Explanation of the different parts:

- Content The content of the box, where text and images appear
- Padding Clears an area around the content.
 The padding is transparent
- Border A border that goes around the padding and content
- Margin Clears an area outside the border.
 The margin is transparent

RGB

An RGB color value represents RED, GREEN, and BLUE light sources.

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.

To display black, set all color parameters to 0, like this: rgb(0, 0, 0).

To display white, set all color parameters to 255, like this: rgb(255, 255, 255).

<h1 style="background-color:rgb(18, 37, 18):">HI</h1>

RGBA

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)

<h1 style="background-color:rgba (255, 99, 71, 1);">HI</h1>

<h1 style="background-color:rgba (255, 99, 71, 0.8);">HI</h1>

<h1 style="background-color:rgba (255, 99, 71, 0.6);">HI</h1>

HEX

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).

<h1 style="background-color:#1ac265;">HI</h1>

<h1 style="background-color:#ee82ee;">HI</h1>

HSL

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

<h1 style="background-color:hsl(39, 100%, 30%);">hsl(39, 100%, 50%)</h1>

<h1 style="background-color:hsl(248, 30%, 58%);">hsl(248, 53%, 58%)</h1>

CSS FONT-FAMILY

Font Selection is Important

Choosing the right font has a huge impact on how the readers experience a website.

The right font can create a strong identity for your brand.

Using a font that is easy to read is important. The font adds value to your text. It is also important to choose the correct color and text size for the font.

Generic Font Families

In CSS there are five generic font families:

- Serif fonts have a small stroke at the edges of each letter. They create a sense of
- Sans-serif fonts have clean lines (no small strokes attached). They create a
- Monospace fonts here all the letters have the same fixed width. They create a Cursive fonts imitate human handwriting.
- Fantasy fonts are decorative/playful fonts.
- All the different font names belong to one of the generic font families.