# CSS - Basic

- Introduction to CSS.
- Basic Boilerplate

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Document</title>
</head>

<body>
</body>

</html>
```

- Ways to Add CSS :-
    1. Inline CSS

```html
<h1 style="color: blue;">Hello My Fellow Developers !!</h1>
```

    2. Internal CSS

```html
<h1>Hello My Fellow Developers !!</h1>
```

```html
<style>
    h1 {
        color: aqua;
    }
</style>
```

3. External CSS
(In head Tag)

```html
<link rel="stylesheet" href="" class="style.css">
```

```html
<h2>Welcome to the Technocrats Web Development workshop</h2>
```
--------------------------------------------------------------------------------------------------------
```css
h2 {
  color: blue;
  background-color: red;
}
```

- CSS Colors:-
    1. Named Colors
    2. RGB Colors
    3. Hex Colors

    ```html
    <h1>Colors</h1>
    ```
    --------------------------------------------------------------------------------------------------
    ```css
    h1 {
      color: red;
      color: rgb(255, 0, 0);
      color: #ff0000;
    }
    ```

- CSS Text Properties
    1. Text-align -
    2. Font-weight-
    3. Text-decoration -
    4. Line-height -
    5. Letter-spacing -
    6. Font-size -

    ```html
    <h2>CSS Text Properties</h2>
    ```

```html
<p>Lorem ipsum dolor, sit amet consectetur adipisicing elit.
Modi, molestiae ad itaque officiis at aliquam accusantium
cumque, quasi necessitatibus asperiores impedit harum expedita
dolorum vitae
        nostrum sit temporibus! Delectus, laudantium.</p>
```

-------------------------------------------------------------------------------------------

```css
h2 {
  text-align: right;
  font-weight: lighter;
  letter-spacing: 3px;
  font-size: 50px;
}
```

```css
p {
  text-decoration: underline wavy red;
  line-height: 35px;
}
```

## 7. font-family:-

```html
<h3>Font Family</h3>
<h3>Font Family</h3>
<h3>Font Family</h3>
<h3>Font Family</h3>
<h3>Font Family</h3>
```

-------------------------------------------------------------------------------------------

```css
h3 {
  font-family: "Roboto", sans-serif;
}
```

- CSS Selectors:-
    1. Universal Selector:-

    ```css
    * {
      color: brown;
    }
    ```

    2. Element Selector :-

    ```html
    <h1>CSS Selectos</h1>
    ```

    ------------------------------------------------------------------------------------

    ```css
    h1{
      color: blue;
    }
    ```

    3. Selector List :-

    ```html
        <h2>I am Very Important so plz pay attention on me</h2>

        <p id="para1">Lorem ipsum dolor sit amet, consectetur
    adipisicing elit. Dignissimos atque nesciunt voluptate
    impedit, dolorum inventore vero? Ex maxime explicabo
    doloremque itaque iusto aliquid
            suscipit</p>
    ```

    ------------------------------------------------------------------------------------

    ```css
    h2,
    p {
      color: rebeccapurple;
    }
    ```

    4. Class Selector :-

    ```html
      <div class="container">
            Lorem ipsum dolor sit amet consectetur adipisicing
    elit. Exercitationem natus nemo, animi eius asperiores sunt
    tenetur, explicabo harum reprehenderit rerum inventore beatae
    et. Alias ipsa
            veritatis assumenda aliquid quae temporibus.
      </div>
    ```

    ------------------------------------------------------------------------------------

    ```css
    .container {
    ```

```css
    text-decoration: underline dotted blue;
}
```

## 5. ID Selector :-

```html
    <p id="para1">Lorem ipsum dolor sit amet, consectetur
adipisicing elit. Dignissimos atque nesciunt voluptate
impedit, dolorum inventore vero? Ex maxime explicabo
doloremque itaque iusto aliquid
        suscipit</p>
```

-------------------------------------------------------------------------------------------

```css
#para1 {
  background-color: blueviolet;
}
```

## 6. Descendant Selector:-

```html
  <li>

        <ul><a href="">link1</a></ul>

        <ul><a href="">link2</a></ul>

          <ul><a href="">link3</a></ul>

        </li>
```

-------------------------------------------------------------------------------------------

```css
li a {
  color: orange;
}
```

## 12.   Attribute Selector :-

```html
      <input type="text"></input>
```

-------------------------------------------------------------------------------------------

```css
input[type="text"] {
  color: yellow;
}
```

- Pseudo Classes :-
  1. Hover :-

  ```
  <h1>Pseudo Classes - very fancy !!</h1>
  ```

  ----------------------------------------------------------------------------------------------------

  ```
  h1:hover {
    color: cyan;
  }
  ```

  2. Active :-

  ```
  <h1>Pseudo Classes - very fancy !!</h1>
  ```

  ----------------------------------------------------------------------------------------------------

  ```
  h1:active {
    color: blue;
  }
  ```

  3. Nth-of-type:-

  ```
  <h3>Understanding pseudo classes ?</h3>
  <h3>Understanding pseudo classes ?</h3>
  <h3>Understanding pseudo classes ?</h3>
  <h3>Understanding pseudo classes ?</h3>
  <h3>Understanding pseudo classes ?</h3>
  <h3>Understanding pseudo classes ?</h3>
  <h3>Understanding pseudo classes ?</h3>
  ```

  ----------------------------------------------------------------------------------------------------

  ```
  h3:nth-of-type(3n) {
    color: blue;
  }
  ```

- Pseudo Elements:-
- 1. First-letter :-

  ```
  <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Error,
  praesentium. Lorem ipsum dolor sit amet consectetur adipisicing
  elit. Exercitationem, officiis!</p>
  ```

  ----------------------------------------------------------------------------------------------------

```css
p::first-letter {
  font-size: 2rem;
  color: blue;
}
```

## 2. First-line:-

```html
<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Error,
praesentium. Lorem ipsum dolor sit amet consectetur adipisicing
elit. Exercitationem, officiis!</p>
```

-------------------------------------------------------------------------------------------------------

```css
p::first-line {
  color: red;
}
```

- Specificity:- Specificity is how the browser decides which rules to apply when multiple rules could apply to the same element.
- ID > Class > Element

```html
<h1>Specificity - "u dont know but i am always there"</h1>
  <h2 class="cls" id="id">Give me a Color</h2>
```

-------------------------------------------------------------------------------------------------------

```css
h2 {
  color: blue;
  color: brown;
}

.cls {
  color: chartreuse;
}

#id {
  color: aqua;
}
```

- CSS Box Model :-
  1. Width and height :-

```
<div>
        <div class="container">
        </div>
```

---------------------------------------------------------------------------------------------

```
.container {
  width: 300px;
  height: 200px;
  background-color: blue;
}
```

- Border :-
  -- Border-Properties :-

```
<div Box Model>
    <div class="container">
    </div>
```

---------------------------------------------------------------------------------------------

```
.container {
  background-color: black;
  width: 100px;
  height: 100px;
  border-width: 3px;
  border-style: solid;
  border-color: brown;
  border-radius: 20px;
}
```

- Border-radius :-

- Padding:-
- Margin:-

```html
<h1>Padding and Margin - Imp Stuff Again</h1>
    <div>
        <div class="box1">


        </div>
        <div class="box2">
        </div>
    </div>
```

------------------------------------------------------------------------------------------

```css
.box1 {
  width: 100px;
  height: 100px;
  background-color: brown;
  border: 3px solid black;
  padding: 10px;
  margin-right: 20px;
}
.box2 {
  width: 200px;
  height: 200px;
  background-color: brown;
  border: 3px solid black;
  padding: 20px;
}
```

- Margin-auto :-

```html
    <div class="box3">
    </div>
```

------------------------------------------------------------------------------------------

```css
.box3 {
  width: 100px;
  height: 100px;
  background-color: aqua;
  margin: auto;
}
(Only for your understanding dont copy paste this code)
<!-- ********v.imp****** -->
```

```
    <!-- Note: Padding creates extra space within an element. In
contrast, margin creates extra space around an element. -->
```

- Vh and vw :-

```
<div class="box">
    </div>
```

-------------------------------------------------------------------------------------------------------

```
.box {
  background-color: black;
  height: 100vh;
  width: 10px;


  height: 100px;
  width: 100vw;
}
```

- Opacity and Alpha Channel :-

```
<div class="alpha">
    </div>
```

-------------------------------------------------------------------------------------------------------

```
.alpha {
  width: 100px;
  height: 100px;
  background-color: rgba(255, 0, 0, 0.5);
}
```

- CSS Transitions :-

```
<div class="tran">
  </div>
```

-----------------------------------------------------------------------------------------------

```css
.tran {
  width: 100px;
  height: 100px;
  background-color: black;
}
.tran:hover {
  transition: all 5s ease-out;
  background-color: blue;
  margin-left: 30px;
}
```

- Transform Property :-

```
<div class="transform">
  </div>
```

-----------------------------------------------------------------------------------------------

```css
.transform {
  width: 100px;
  height: 100px;
  background-color: black;
  margin: 30px 0 0 30px;
}
.transform:hover {
  transition: all 5s ease-out;
  background-color: blue;
  transform: rotate(90deg);
  transform: rotate3d(0, 0, 1, 80deg);
}
```

- Translate Property :-

```html
<div class="box1"></div>
    <div class="box2"></div>
    <div class="box3"></div>
```

---------------------------------------------------------------------------------------------------------

```css
.box1,
.box2,
.box3 {
  width: 100px;
  height: 100px;
  background-color: black;
  margin-top: 20px;
  margin-left: 20px;
}

.box2 {
  background-color: brown;
  transform: translateX(30px);
}
```

- Background Properties :-

```html
    <div class="container">
    </div>
```

---------------------------------------------------------------------------------------------------------

```css
.container {
  width: 100vw;
  height: 100vh;
  background:
url(https://images.pexels.com/photos/270360/pexels-photo-270360.jpeg
?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940);
  background-position: center;
  background-size: cover;
  background-repeat: no-repeat;
  background-attachment: scroll;
}
```

- Video-Background :-

```
<video autoplay loop muted>
        <source src="../Video/vdo.mp4" type="video/mp4">
    </video>
```

- Material Icons :-

```
    <link
href="https://fonts.googleapis.com/icon?family=Material+Icons"
rel="stylesheet">
```

----------------------------------------------------------------------------------------------------

```
    <span class="material-icons">
        highlight
    </span>
```