HTML AND CSS TUTORIAL

Table of Contents

Basic Layout

```html
<html>
    <head>
        <title>My first page</title>
    </head>
    <body>
        Hello World! this is my first program
    </body>
</html>
```

Heading Tag

```html
<html>
    <head>
        <title>Heading</title>
    </head>
```

```html
    <body>

        <h1>Heading Tag - 1</h1>
        <h2>Heading Tag - 2</h2>
        <h3>Heading Tag - 3</h3>
        <h4>Heading Tag - 4</h4>
        <h5>Heading Tag - 5</h5>
        <h6>Heading Tag - 6</h6>
    </body>
</html>
```

Text Formatting Tag

```html
<html>
    <head>
        <title>Heading</title>
    </head>
    <body>
        <h1>Text Formating Tags</h1>
        left
        center
        justify
        bold --> b
        <palign="center"><b>Lorem</b> ipsum dolor sit
ametconsecteturadipisicingelit. Exercitationem, iuredolorem.
Eiusassumenda a nequelaboriosamcupiditatelaudantiumsoluta,
dolorumrepellendusasperioresomnisest rem
debitisquisquamnatusaccusantium nobis eos?
Evenietexplicaboexercitationemasperioresmolestiasaliquam fugit
magniquiasaepe provident sequiassumendaincidunt, alias
laudantiumullam! Minima est error quisquamomnisaliquid,
numquamilloinciduntasperioresperferendismaioresdistinctioexplicabo.
Dicta sapiente, doloremqueenim, quisaut at veritatisincidunt,
impeditnesciuntaperiamdebitis. Corruptinullaipsamut ipsum veritatis
culpa ex nobis quidem! Minima qui tempore
quamreprehenderitvoluptatumreiciendiseveniet, ullammaiores, dicta
debitisconsequunturofficiisdolores!
        </p>
        <b>Sathish</b>
        <br>
        <i>sathish</i>
        <br>
```

```
        <s>sathish</s>
        <br>
        <strong>sathish</strong>
        <br>
        <small>sathish</small>
        <tt>sathish</tt>
        <br>
        <u>sathish</u>
        <h1>H<sub>2</sub>O</h1>
        <h1>a<sup>2</sup>+b<sup>2</sup></h1>
        <pre>sathish
            developer</pre>
    </body>
</html>
```

font tag

```
<html>
    <head>
        <title>FontTag</title>
    </head>
    <body>
        <h1>Font Tag</h1>
        <fontface="algerian"size = '5'color = "red">
        <p>
            Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Nesciunt, accusamus? Quo non accusamus, esse vitae
fugaillumtemporibuspossimus. Aspernaturperferendisdeleniti sit
suscipit dicta itaque facilis ratione vel eligendiodiomolestiaeea,
eoseveniettemporibusexcepturiut hic nam nisi,
istecorruptivoluptatibus.
Quodplaceatdolorumrepellatfacereofficiaiusto, suscipit,
sinteaasperioressequinesciunt provident? Modi utdistinctio,
reprehenderititaquelaboriosam ab. Aliquam quo
cupiditatemagnamobcaecati ad! Nullablanditiisiuredeserunt quasi
impeditsapienteinventoreplaceat, corporis aperiamquibusdamitaque
alias veniamquiaiustoaliquid, omnis animi.
Blanditiisillummagnideseruntesseharum provident molestiaeullam.
        </p>
        </font>
```

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

Image Tag

```
<html>
    <head>
        <title>Image tag</title>
    </head>
    <body>
        <h1>Image tag in HTML</h1>
        <imgsrc="green.jpg"alt = 'no image
green'height="200px"width="200px">
    </body>
</html>
```

Table tag

```
<html>
    <head>
        <title>Table tag</title>
    </head>
    <body>
        <h1>Table tag</h1>
        <tableborder="5px"cellpadding = "10px"cellspacing = "10px">
            <tr>
                <tdcolspan="2"> Student List</td>
            </tr>
            <tr>
                <th>SNO</th>
                <th>Name</th>
            </tr>
            <tr>
                <td>sathish</td>
                <td>17</td>
            </tr>
        </table>
        <h1>OtherTable</h1>
        <tableborder="2px"cellpadding = "10px"cellspacing ="10px">
            <tr>
```

```html
        <tdcolspan="6"><h1>School Time Table</h1></td>
    </tr>
    <tr>
        <th>DAYS</th>
        <th>1</th>
        <th>2</th>
        <throwspan="6">B<br>R<br>E<br>A<br>K</th>
        <th>3</th>
        <th>4</th>
    </tr>
    <tr>
        <td>MON</td>
        <td>ENG</td>
        <td>TAM</td>
        <td>MAT</td>
        <td>SCI</td>
    </tr>
    <tr>
        <td>TUE</td>
        <td>ENG</td>
        <td>TAM</td>
        <td>MAT</td>
        <td>SCI</td>
    </tr>
    <tr>
        <td>WED</td>
        <td>ENG</td>
        <td>TAM</td>
        <td>MAT</td>
        <td>SCI</td>
    </tr>
    <tr>
        <td>THU</td>
        <td>ENG</td>
        <td>TAM</td>
        <td>MAT</td>
        <td>SCI</td>
    </tr>
    <tr>
        <td>FRI</td>
        <td>ENG</td>
        <td>TAM</td>
        <td>MAT</td>
```

```
                <td>SCI</td>
            </tr>
        </table>
    </body>
</html>
```

List tag

```
<html>
    <head>
        <title>lIST TAG</title>
    </head>
    <body>
        <h1>List Tag</h1>
        <!--
            unorder list type
            disc
            square
            circle
        -->
        <ultype = "dsic">
            <li>Item-1</li>
            <li>Item-2</li>
            <li>Item-3</li>
            <li>Item-4</li>
            <li>Item-5</li>
        </ul>
        <!--
            order list type
            a
            A
            i
            I
        -->
        <oltype = "i">
            <li>Item-1</li>
            <li>Item-2</li>
            <li>Item-3</li>
            <li>Item-4</li>
            <li>Item-5</li>
        </ol>
    </body>
```

```
</html>
```

Marquee tag

```html
<html>
    <head>
        <title>Marquee tag</title>
    </head>
    <body>
        <h1>Marquee tag in HTML</h1>
        <!--
            Used in Animation
        -->
        <!--
            direction
                left is default
                right
                up
                down
            behaviour
                scroll is default
                slide
                alternate

        -->
        <marqueebgcolor = "orange"height ="50px"width = "300px"loop
= "4"

behavior="alternate"direction="left"scrollamount="10"scrolldelay =
"50">
            <imgsrc="green.jpg"alt="">
        </marquee>
    </body>
</html>
```

Anchor tag

```html
<html>
    <head>
        <title>Anchor Tag</title>
```

```html
    </head>
    <body>
        <h1>Anchor Tag</h1>
        <!--hyberlinkrefernces-->
        <!--target
            self is default
            _blank

        -->
        <ahref="07_ListTag.html"target = "box">List Tag</a>
        <ahref="08_MarqueeTag.html"target = "_blank">Marquee</a>
        <ahref="02_HeadingTag.html">heading</a>
        <iframesrc=""name="box"frameborder="0"height =
"500px"width="500px">

        </iframe>

<iframewidth="560"height="315"src="https://www.youtube.com/embed/Oe
s56FoYABc"title="YouTube video
player"frameborder="0"allow="accelerometer; autoplay; clipboard-
write; encrypted-media; gyroscope; picture-in-picture; web-
share"allowfullscreen></iframe>
    </body>
</html>
```

Form elements

```html
<html>
    <head>
        <title>Forrm elements</title>
    </head>
    <body>
        <h1>Form elements in html</h1>
        <fieldset>
            <legend>Registration Form</legend>
            <form>
                <label>Name</label>
                <inputtype="text">
                <br>
                <hr>
                <label>Password</label>
                <inputtype="password">
```

```html
            <!--Combo Box-->
            <label>Select Course</label>
            <select>
                <option value="1">C</option>
                <option value="2">C++</option>
                <option value="3">Java</option>
            </select>
            <select multiple>
                <option value="1">C</option>
                <option value="2">C++</option>
                <option value="3">Java</option>
            </select>
            <br>
            <input type="date">
            <br>
            <textarea cols="30" rows="5"></textarea>
            <br>
            <!--name = "Gender" is common name -->
            <input type="radio" name = "Gender">Male
            <input type="radio" name = "Gender">Female
            <br>
            <input type="checkbox">I agree
            <br>
            <input type="file">
            <br>
            <input type="file" multiple>
            <br>
            <input type="submit">
            <br>
            <button>Save</button>
            <br>
            <input type="button">
            <br>
            <input type="color">
            <br>
            <input type="range">
        </form>
    </fieldset>
    </body>
</html>
```

CSS COMPLETE TUTORIAL

What is CSS ?

CSS – Cascading Style Sheet

Style sheets are a collection of formatting rules

Structure of CSS

A CSS rule-set consists of a selector and a declaration block. A style rule is made of three parts :

Selector

A selector is an HTML tag at which a style will be applied.

Property

A property is a type of attribute of HTML tag. Put simply, all the HTML attributes are converted into CSS properties.

Value

Values are assigned to properties.

Syntax

selector { property : value ; }

Example

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

How to link CSS rules in websites ?

Three types to link CSS rules in website

- **Inline style** (Inside the tag to style)
- **Internal style** (Inside the head tag)
- **External style** (External *.CSS file)

Inline style

Inline – CSS rules by using style attribute in HTML elements

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Tutor Joes</title>
</head>
<body>
    <p style="color:orange;text-align: justify;">
    Lorem ipsum dolor, sit ametconsecteturadipisicingelit. Voluptatevoluptates rem eveniet,
    quo temporaarchitectoisteeligendidoloremreiciendisquasaccusantiumrepellatillum
    libero oditexercitationem.Voluptates rerum, expeditalaudantiumipsa minima repellat?
    Sequi quo inventoresapientevoluptas rerum, porroquidemcommodiearumconsequuntur
    laudantium! In facereullamvoluptasdeserunt.Perferendis delectus corruptiamet minima!
    Veritatis hic obcaecatienim.
    Lorem ipsum dolor, sit ametconsecteturadipisicingelit. Voluptatevoluptates rem eveniet,
    quo temporaarchitectoisteeligendidoloremreiciendisquasaccusantiumrepellatillum
    libero oditexercitationem.Voluptates rerum, expeditalaudantiumipsa minima repellat?
    Sequi quo inventoresapientevoluptas rerum, porroquidemcommodiearumconsequuntur
    laudantium! In facereullamvoluptasdeserunt.Perferendis delectus corruptiamet minima!
    Veritatis hic obcaecatienim.
    </p>
    <hr>
    <p style="color:orange;text-align: right;">
    Lorem ipsum dolor, sit ametconsecteturadipisicingelit. Voluptatevoluptates rem eveniet,
```

```
    quo
temporaarchitectoisteeligendidoloremreiciendisquasaccusantiumrepell
atillum
    libero oditexercitationem.Voluptates rerum,
expeditalaudantiumipsa minima repellat?
    Sequi quo inventoresapientevoluptas rerum,
porroquidemcommodiearumconsequuntur
    laudantium! In facereullamvoluptasdeserunt.Perferendis delectus
corruptiamet minima!
    Veritatis hic obcaecatienim.
    Lorem ipsum dolor, sit ametconsecteturadipisicingelit.
Voluptatevoluptates rem eveniet,
    quo
temporaarchitectoisteeligendidoloremreiciendisquasaccusantiumrepell
atillum
    libero oditexercitationem.Voluptates rerum,
expeditalaudantiumipsa minima repellat?
    Sequi quo inventoresapientevoluptas rerum,
porroquidemcommodiearumconsequuntur
    laudantium! In facereullamvoluptasdeserunt.Perferendis delectus
corruptiamet minima!
    Veritatis hic obcaecatienim.
    </p>
</body>
</html>
```

Internal

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>
    <style>
        h1{
            color:red;
            background: black;
        }
        p{
            color:blue;
        }
    </style>
</head>
```

```html
<body>
    <h1>Internal Style</h1>
    <p>Lorem ipsum dolor sit, ametconsecteturadipisicingelit. Qui,
placeateius!
    Error deserunteaque sed non,
laboriosamquaeratveritatisveniampossimus?
    Facilis corporis quae at alias esseoptiosintdignissimos.</p>
    <h1>Internal Style</h1>
</body>
</html>
```

External

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>
    <!--rel - relative-->
    <linkrel="stylesheet"href="03(1)style.css"type="text/css">
</head>
<body>
    <h1>External Style</h1>
    <p>
      Lorem ipsum dolor sit, ametconsecteturadipisicingelit. Qui,
      placeateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
      veniampossimus? Facilis corporis quae at alias esseoptiosint
      dignissimos.
    </p>

</body>
</html
```

CSS file

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

Font Properties

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Tutor Joes</title>

<link href="https://fonts.googleapis.com/css?family=Pacifico" rel="stylesheet">
    <style>
        h1{
            font-family: 'Pacifico', cursive;
            font-weight:normal;
            font-variant: small-caps;
            color:rgb(0, 255, 17);
        }
        p{
            font-style:italic;
            font-size: 25px;


        }

        span{


            font: bold 12pt Arial;
            /* font-weight: bold;
            color: aqua; */
        }
    </style>
</head>
<body>
    <h1>CSS Font Properties</h1>
    <p>
      <span>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Qui,
      placeat eius! Error deserunt eaque sed non, laboriosam quae rat veritatis
      </span>veniam possimus? Facilis corporis quae at alias esse optio sint
      dignissimos.Lorem ipsum dolor sit, amet consectetur adipisicing elit. Qui,
      placeat eius! Error deserunt eaque sed non, laboriosam quae rat veritatis
```

```
          veniampossimus? Facilis corporis quae at alias esseoptiosint
          dignissimos.
     </p>

</body>
</html>
```

Background Properties

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>

<linkhref="https://fonts.googleapis.com/css?family=Pacifico"rel="st
ylesheet">
    <style>
    html{
        background:white;
    }
    body{
        /* url - uniform resource locator */
        background: teal;
        background-image: url(tom.png);
        color:black;
        background-repeat: no-repeat;
        /* background-repeat: repeat-x;  */
        /* background-repeat: repeat-y; */
        background-size: 300px300px;
        /* bottom center */
        background-position: bottom;
        /* to cover the image in case small image */
        background-size: cover;
        height: 800PX;
        width: 800px;
    }
    h1{
        font-family: 'Pacifico', cursive;
        font-weight:normal;
        font-variant: small-caps;
        color:yellow;
    }
    p{
        font-style:italic;
```

```css
        font-size: 25px;
    }
    span{
        font: bold12ptArial;
    }
    </style>
</head>
<body>
    <h1>Background Properties</h1>
    <p>
      <span>Lorem ipsum dolor sit, ametconsecteturadipisicingelit. Qui,
      placeateius! Error deserunteaque sed non, laboriosamquaeratveritatis
      </span>veniampossimus? Facilis corporis quae at alias esseoptiosint
      dignissimos.Lorem ipsum dolor sit, ametconsecteturadipisicingelit. Qui,
      placeateius! Error deserunteaque sed non, laboriosamquaeratveritatis
      veniampossimus? Facilis corporis quae at alias esseoptiosint
      dignissimos.
    </p>

</body>
</html>
```

Background size properties

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>

<linkhref="https://fonts.googleapis.com/css?family=Pacifico"rel="stylesheet">
    <style>
    div{
    width: 900px;
    height: 500px;
    /* background-color: teal; */
    background: tealurl(jerry.png) no-repeat;
```

```css
    /* default property */
    background-size: auto;

    background-size: 200px;
    /* width    height */
    background-size: 400px200px;
    /* Some issue is created */
    background-size: 100%;
    /* solution */
    background-size: cover;
    background-size: contain;


    padding: 10px;
  }
  </style>
</head>
<body>
  <h1>Background Size in CSS</h1>
  <div>
  <p>
    Lorem ipsum dolor sit, ametconsecteturadipisicingelit. Qui,
    placateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
    veniampossimus? Facilis corporis quae at alias esseoptiosint
    dignissimos.Lorem ipsum dolor sit,
ametconsecteturadipisicingelit. Qui,
    placateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
    veniampossimus? Facilis corporis quae at alias esseoptiosint
    dignissimos. Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Possimus et nemo
necessitatibusrepudiandaerepellendus, culpa ducimusquisquam.
Temporanullamodi quo. Dolor quidemaspernatur ex sed tempore?
Delenitimaioresut nostrum officiis minus culpa. Ratione nobis
impeditmagnamaliquid fugit consectetur nemo
illonecessitatibussuscipitsolutanatuscumqueadipisciaccusantiumexpli
caboexpeditaodit quo possimus facilis deleniti et quisquam,
magnieligendimodi? Exercitationemveritatisiusto dolore at eius sunt
sit eaautemadipisci alias temporibusmaximevoluptatesrepellendus a,
laborumcupiditate nisi dicta atqueutmagnam. At, sint error.
Delectus reiciendisvoluptatibus provident
quaepraesentiumconsequunturillo libero,
suscipitnumquamaliquidvoluptatesquiaperspiciatis rerum doloribus. A
```

teneturiustomolestiae, facilis natus error. Delectus
quaeratquisquamconsequuntur libero
blanditiistemporibusnecessitatibusimpeditsapiente!
Necessitatibusdoloribus dolor amet beatae ipsamvoluptas, eligendi
animi excepturi et ducimussaepeessedistinctio ex
sequiasperioresquaerat labore
deseruntnequefugafaceredoloremqueevenietvoluptatibusdelenitiaccusam
us. Consequunturexplicabo, labore adipisciautinventore sit,
molestias cum nobis quamsintrecusandae quos eosducimus vitae
corporis laboriosamaccusantium, a nostrum cupiditate? Cum quamipsam
facilis
quasquaeratenimeosadipisciquisquamrecusandaefugamagnamistepraesenti
um dolor corruptifacere non, quis, maxime beatae
obcaecatiexcepturi. Reprehenderit?.
    </p>
</div>
</body>
</html>

Background attachments

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>

<linkhref="https://fonts.googleapis.com/css?family=Pacifico"rel="stylesheet">
    <style>
        div{
            color: khaki;
            font-size: 25px;
            font-weight: bold;
            padding: 10px;
            background: aliceblueurl(natural.webp) no-repeat;
            background-size: contain;
            /* Scroll - default */
            background-attachment: scroll;
            background-attachment: fixed;


        }
    </style>
```

```html
</head>
<body>
    <h1>Background attachment in CSS</h1>
    <div>
    <p>
      Lorem ipsum dolor sit, ametconsecteturadipisicingelit. Qui,
      placeateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
      veniampossimus? Facilis corporis quae at alias esseoptiosint
      dignissimos.Lorem ipsum dolor sit,
ametconsecteturadipisicingelit. Qui,
      placeateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
      veniampossimus? Facilis corporis quae at alias esseoptiosint
      dignissimos. Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Possimus et nemo
necessitatibusrepudiandaerepellendus, culpa ducimusquisquam.
Temporanullamodi quo. Dolor quidemaspernatur ex sed tempore?
Delenitimaioresut nostrum officiis minus culpa. Ratione nobis
impeditmagnamaliquid fugit consectetur nemo
illonecessitatibussuscipitsolutanatuscumqueadipisciaccusantiumexpli
caboexpeditaodit quo possimus facilis deleniti et quisquam,
magnieligendimodi? Exercitationemveritatisiusto dolore at eius sunt
sit eaautemadipisci alias temporibusmaximevoluptatesrepellendus a,
laborumcupiditate nisi dicta atqueutmagnam. At, sint error.
Delectus reiciendisvoluptatibus provident
quaepraesentiumconsequunturillo libero,
suscipitnumquamaliquidvoluptatesquiaperspiciatis rerum doloribus. A
teneturiustomolestiae, facilis natus error. Delectus
quaeratquisquamconsequuntur libero
blanditiistemporibusnecessitatibusimpeditsapiente!
Necessitatibusdoloribus dolor amet beatae ipsamvoluptas, eligendi
animi excepturi et ducimussaepeessedistinctio ex
sequiasperioresquaerat labore
deseruntnequefugafaceredoloremqueevenietvoluptatibusdelenitiaccusam
us. Consequunturexplicabo, labore adipisciautinventore sit,
molestias cum nobis quamsintrecusandae quos eosducimus vitae
corporis laboriosamaccusantium, a nostrum cupiditate? Cum quamipsam
facilis
quasquaeratenimeosadipisciquisquamrecusandaefugamagnamistepraesenti
um dolor corruptifacere non, quis, maxime beatae
obcaecatiexcepturi. Reprehenderit?.
    </p>
    <p>
```

Lorem ipsum dolor sit, ametconsecteturadipisicingelit. Qui,
placeateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
veniampossimus? Facilis corporis quae at alias esseoptiosint
dignissimos.Lorem ipsum dolor sit,
ametconsecteturadipisicingelit. Qui,
placeateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
veniampossimus? Facilis corporis quae at alias esseoptiosint
dignissimos. Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Possimus et nemo
necessitatibusrepudiandaerepellendus, culpa ducimusquisquam.
Temporanullamodi quo. Dolor quidemaspernatur ex sed tempore?
Delenitimaioresut nostrum officiis minus culpa. Ratione nobis
impeditmagnamaliquid fugit consectetur nemo
illonecessitatibussuscipitsolutanatuscumqueadipisciaccusantiumexpli
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    </p>
</div>
</body>
</html>

Background origin

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Tutor Joes</title>

<link href="https://fonts.googleapis.com/css?family=Pacifico" rel="stylesheet">
    <style>
        body{
            background: aliceblue;
        }
        div{
            background: white;
            width: 800px;
            height: 600px;
            padding: 25px;
            border: 20px dashed black;
            background-image: url(natural.webp);
            background-repeat: no-repeat;
            /* padding-box is Default */
            background-origin: padding-box;
            background-origin: content-box;
            background-origin: border-box;
        }
    </style>
</head>
<body>
    <h1>Background Origin in CSS</h1>
    <div>
    <p>
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</div>
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Background clip

<!DOCTYPEhtml>
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<linkhref="https://fonts.googleapis.com/css?family=Pacifico"rel="st
ylesheet">
    <style>

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        div{
            width: 800px;
            height: 400px;
            background-image: url(natural.webp);
            background-repeat: no-repeat;
            background-size: cover;
            font-size: 100px;
            font-family: impact;
            text-align: center;
            color: transparent;
            background-clip: text;
            /* For chrome browser use webkit prefix use pannanum in
case  */
            -webkit-background-clip: text;
        }
    </style>
</head>
<body>
    <h1>Background Clip in CSS</h1>
    <div>
    sathishkumar

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

Background gradient

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>

<linkhref="https://fonts.googleapis.com/css?family=Pacifico"rel="st
ylesheet">
    <style>
        div{
            width: 800px;
            height: 400px;
            /* gradient type
                    linear-gradient
                    repeating-linear-gradient
                    radial-gradient
```

```css
                    repeating-radial-gradient
                    conic gradient
                    repeating-conic gradient */
                    height: 600px;
                    width: 800px;
                    background-color: red;
                    /* it used to show multi color
                    it also allow hexadecimal,rgb value  */
                    background:linear-gradient(red,blue) ;
                    background:linear-gradient(red,blue,black) ;

                    background:linear-
gradient(toright,red,blue,black) ;
                    background:linear-
gradient(toleft,red,blue,black) ;
                    background:linear-
gradient(totop,red,blue,black) ;
                    background:linear-
gradient(tobottom,red,blue,black) ;

                    background:linear-
gradient(tobottomright,red,blue,black) ;
                    background:linear-
gradient(tobottomleft,red,blue,black) ;
                    background:linear-
gradient(totopleft,red,blue,black) ;
                    background:linear-
gradient(totopright,red,blue,black) ;

                    background:linear-
gradient(45deg,red,blue,black) ;
                    background:linear-gradient(-
45deg,red,blue,black) ;

                    background:linear-gradient(-
45deg,red50%,blue20%) ;

                    background: repeating-linear-
gradient(totop,red20%,orange30%);

                    /* In circle or ellipse form  */
                    background: radial-gradient(red,yellow);
```

```css
                background: radial-gradient(red,yellow,green);
                background: radial-
gradient(red5%,yellow15%,green60%);
                background: radial-
gradient(circle,red5%,yellow15%,green60%);

                background: radial-gradient(closest-
sideat50%50%,red5%,yellow15%,green60%);
                background: radial-gradient(closest-
sideat80%50%,red5%,yellow15%,green60%);
                background: radial-gradient(closest-
sideat80%80%,red5%,yellow15%,green60%);

                background: radial-gradient(farthest-
sideat80%80%,red5%,yellow15%,green60%);

                background: radial-gradient(closest-
cornerat80%80%,red5%,yellow15%,green60%);
                background: radial-gradient(farthest-
cornerat80%80%,red5%,yellow15%,green60%);


                background: repeating-radial-
gradient(red,orange,black);
                background: repeating-radial-gradient(red
,orange10%,black15%);

                background: conic-gradient(red,yellow,black);
                border-radius: 50%;
                background: conic-
gradient(from90deg,red,yellow,black);
                background: conic-gradient(red,yellow,black);
                background: conic-
gradient(red0deg,red90deg,yellow90deg,yellow180deg,
black180deg,black270deg);

                background: conic-
gradient(at40%60%,red,yellow,black);
                background: repeating-conic-
gradient(red,yellow10% ,black20%);
                border-radius: 60%;
        }
    </style>
</head>
```

```
<body>
    <h1>Background Gradient in CSS</h1>
    <div>
    sathishkumar

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

Background blend

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>

<linkhref="https://fonts.googleapis.com/css?family=Pacifico"rel="st
ylesheet">
    <style>
        div{
            width: 500px;
            height: 500px;
            border: 2pxblack;
            background-image: linear-
gradient(red,yellow),url(shoe.jpeg);
            background-size: cover;
            /* Default value noraml */
            background-blend-mode: normal;
            background-blend-mode: screen;
            /* mostly used overlay */
            background-blend-mode: overlay;
            background-blend-mode: darken;
            background-blend-mode: hard-light;
            background-blend-mode: soft-light;
            background-blend-mode: multiply;
            background-blend-mode: difference;
            background-blend-mode: exclusion;
            background-blend-mode: hue;
            background-blend-mode: color-burn;
            background-blend-mode: color-dodge;
            background-blend-mode: color;
            backgrournd-blend-mode: lighten;
```

```css
            background-blend-mode: luminosity;
            background-blend-mode: saturation;



        }
    </style>
</head>
<body>
    <h1>Background Blend in CSS</h1>
    <div>



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

Opacity

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>

<linkhref="https://fonts.googleapis.com/css?family=Pacifico"rel="stylesheet">
    <style>
        div{
            width: 800px;

            border: 2pxsolid#333;
            padding: 10px;
            /* opacity  value give from 0 to 1
            it means transparency */
            /* opacity: 0.8; */


        }
        img{
            opacity: 0.4;
            /* filter: alpha(opacity=90%); *///*It is used in old
browser*/
        }
```

```
    </style>
</head>
<body>
    <h1>Opacity in CSS</h1>
    <div>
        <imgsrc="shoe.jpeg"alt = "">
    <p>
        Lorem ipsum dolor, sit ametconsecteturadipisicingelit.
Sequi minus aspernaturfacereobcaecatisapiente quo
temporibusquammodiaperiamundevoluptatesnatuslaborum tempore,
velitperspiciatisdeseruntnumquamducimusut nemo!
Corruptisequiexcepturiquamexpeditaasperiores,
temporibusofficiiscumquedistinctioveritatislaudantium quasi
similique. Alias
inciduntdelenitiiustoconsequaturundeiureautemmolestiae vel istenam
ad quasrationeaut, impeditfugafacere. Aliquid qui
harumaccusamusrepudiandaesequi ad, rem, commodinatus a culpa
cupiditateeiusdignissimosdolores error adipisciquasut quasi
porroitaqueautem! Nobis est minima
commodieaquenesciuntconsequunturnatus error eosporro corporis.
    </p>

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

Text properties

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <title>Tutor Joes</title>
    <style>
    html{
        background:teal;
    }
    b{
        /* sub,superscribt */
        vertical-align: sub;
        vertical-align: super;
    }
    body{
```

```
        height:1000px;
        width:800px;
        background:white;


    }
    h1{
        letter-spacing: 5px;
        text-decoration: line-through;
        text-decoration: overline;
        text-decoration: underline;
        text-transform: uppercase;
        text-align: center;
    }
    p{

        text-align: justify;
        text-indent: 50px;
        line-height: 30px;


    }
    </style>
</head>
<body>
    <h1>Text Properties</h1>
    <p>
        <span>Lorem ipsum dolor sit, ametconsecteturadipisicingelit.
Qui,
        placeateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
        </span>veniampossimus? Facilis corporis quae at alias
esseoptiosint
        dignissimos.<b>Lorem ipsum dolor sit,
amet</b>consecteturadipisicingelit. Qui,
        placeateius! Error deserunteaque sed non,
laboriosamquaeratveritatis
        veniampossimus? Facilis corporis quae at alias esseoptiosint
        dignissimos.
    </p>

</body>
</html>
```

List properties

```html
<!DOCTYPEhtml>
<htnllarge="en">
<html>
    <head>
        <title>Tutor joes</title>
    </head>
    <style>
        ulli{
            /* disc
            square
            circle
            decimal
            decimal-leading-zero
            lower-roman
            upper-roman
            lower-alpha
            upper-alpha
            lower-greek
            lower-latin*/

            /*list-style-type: decimal;
            list-style-type: square;
            list-style-image: url(natural.webp); */

            list-style-type: none;
        }
        ulli::before{
            content: " ";
            display: inline-block;
            margin-right: 10px;
            height: 10px;
            width: 10px;
            background-image: url(natural.webp);
            background-size: cover;
            /* background-color: aqua; */

        }
    </style>
    <body>
        <h1>List properties</h1>
        <ul>
```

```html
            <li>Home</li>
            <li>Product</li>
            <li>blog</li>
            <li>download</li>
            <li>contact</li>
        </ul>
    </body>
</html>
```

More about list

```html
<!DOCTYPEhtml>
<htnllarge="en">
<html>
    <head>
        <title>Tutor joes</title>
    </head>
    <style>
        ulli{
            /* disc
            square
            circle
            decimal
            decimal-leading-zero
            lower-roman
            upper-roman
            lower-alpha
            upper-alpha
            lower-greek
            lower-latin*/

            list-style-type: disc;
            list-style-type: square;
            list-style-type: circle;
            list-style-type: decimal;
            list-style-type: decimal-leading-zero;
            list-style-type: lower-roman;
            list-style-type: upper-alpha;
            list-style-type: lower-greek;
            list-style-type: lower-latin;

        }
```

```
        </style>
        <body>
            <h1>List properties in HTML</h1>
            <ul>
                <li>Home</li>
                <li>Product</li>
                <li>blog</li>
                <li>download</li>
                <li>contact</li>
            </ul>
        </body>
</html>
```

More about list

```
<!DOCTYPEhtml>
<htnllarge="en">
<html>
    <head>
        <title>Tutor joes</title>
    </head>
    <style>
      #twoli{
        /* list-style-type: square; */
        /* list-style: none; */
        list-style: outside;/*Default*/
        list-style: inside;
      }
    </style>
    <body>
        <h1>List properties in HTML</h1>
        <h3>List-1</h3>
        <ul>
            <li>Home</li>
            <li>Product</li>
            <li>blog</li>
            <li>download</li>
            <li>contact</li>
        </ul>
        <h3>List-2</h3>
        <ulid="two">
```

```html
            <li>Home</li>
            <li>Product</li>
            <li>blog</li>
            <li>download</li>
            <li>contact</li>
        </ul>
    </body>
</html>
```

Margin properties

```html
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            div{
                background: brown;
                color: white;
                height: 150px;
                width: 300px;
                /* Margin */
                /*  1.Margin - Individual Sides
                        margin-top: value;
                        margin-right: value;
                        margin-bottom: value;
                        margin-left: value;
                    2.Margin - Shorthand property
                        margin: value (all side);
                        margin : top right bottom left;
                        margin: vertical (Top, Bottom) horizontal
(Left, Right);

                        margin: top,horizontal,bottom;*/
                margin: 75px;
                /* specify each side */
                margin-top: 40px;
                margin-bottom: 30px;
                margin-left: 10px;
                margin-right: 70px;
                /* specify side in single line
                Margin :top,right,bottom,left */
                margin: 70px70px70px70px;
```

```
                margin: 10px70px30px70px;
                /* speccify horizontal and vertical */
                margin: 50px70px;
                /* margin: top,horizontal,bottom; */
                margin: 30px50px10px;


            }
            h1{
                background: brown;
            }
        </style>
    </head>

    <body>
        <h1>Margin properties in CSS</h1>
        <div>  dolor sit, ametconsecteturadipisicingelit. Vel,
verodebitis sed consequunturmolestiaedistinctiorepudiandaefuga
fugit non magniaccusantiumdoloresauteadeserunt at
recusandaeodioveritatisquisquam?
        </div>
        <div>
            Lorem ipsum dolor sit, ametconsecteturadipisicingelit.
Vel, verodebitis sed consequunturmolestiaedistinctiorepudiandaefuga
fugit non magniaccusantiumdoloresauteadeserunt at
recusandaeodioveritatisquisquam?
        </div>
    </body>
</html>
```

Padding properties

```
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            div{
                background: brown;
                color: white;
                height: 150px;
                width: 300px;
```

```css
            /* margin denoted as outer space
             padding denoted as inner space ; */
            margin: 30px50px10px;
            /* Padding */
            padding: 10px;
            padding-left: 10px;
            padding-right: 20px;
            padding-bottom: 30px;
            padding-top: 40px;
            padding: 40px20px;
            padding: 40px20px30px;
            /*  1.Padding - Individual Sides
                    Padding-top: value;
                    Padding-right: value;
                    Padding-bottom: value;
                    Padding-left: value;
                2.Padding - Shorthand property
                    Padding: value (all side);
                    Padding : top right bottom left;
                    Padding: vertical (Top, Bottom) horizontal
(Left, Right);

                    Padding: top,horizontal,bottom;*/


        }
        h1{
            background: brown;
            padding: 10px;

        }
    </style>
</head>

<body>
    <h1>Padding properties in CSS</h1>
    <div>  dolor sit, ametconsecteturadipisicingelit. Vel,
verodebitis sed consequunturmolestiaedistinctiorepudiandaefuga
fugit non magniaccusantiumdoloresauteadeserunt at
recusandaeodioveritatisquisquam?
    </div>
    <div>
        Lorem ipsum dolor sit, ametconsecteturadipisicingelit.
Vel, verodebitis sed consequunturmolestiaedistinctiorepudiandaefuga
fugit non magniaccusantiumdoloresauteadeserunt at
recusandaeodioveritatisquisquam?
```

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

Border properties

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            div{
                background: teal;
                width: 300px;
                height: 300px;
                /* To specify the particular side */
                border-top-width: 10px;
                border-top-color: red;
                /* border-top-style: double; */
                /* border-top-style: solid; */
                border-top-style: groove;

                border-left-width: 10px;
                border-left-color: green;
                border-left-style: dotted;

                /* in single line */
                border: 10px solid red;

            }
        </style>
    </head>
    <h1>Border properties in CSS</h1>
    <body>
        <div>

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

Selectors

```html
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>

            /* 1) Element selectors that is noramal tag use */
            h1{
                color: blue;
            }
            /* 2) id selectors represent # */
            #title{
                color: orange;
                font-size: 25px;
            }

            /* 3) class selector represent dot(.) */
                .box{
                    height: 100px;
                    width: 100px;
                    background: teal;
                    margin-bottom: 10px;
                    /* important thing div is block level element
but span is not block level element */
                    display: block;
                }
        </style>
    </head>
    <h1>Selectors in CSS</h1>
    <h3id="title">id selectors</h3>
    <body>
        <divclass="box"></div>
        <divclass="box"></div>
        <spanclass="box"></span>

    </body>
</html>
```

Display properties

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            h1,p{
                background: red;

            }
            ulli{
                display: inline;
                list-style-type: none;
                background: orangered;
                margin-left: 10px;
                padding: 15px;
            }
            b{

                background: blue;
                display: block;
                width: 300px;
                height: 50px;
                display: inline-block;
                /* display: none; */

            }
        </style>
    </head>

    <body>
        <!-- h1 and p are block level properties -->
        <h1>Display properties in CSS</h1>
        <ul>
            <li>C program</li>
            <li>C++</li>
            <li>Java</li>
            <li>.Net</li>
            <li>MySql</li>
        </ul>
        <p>Lorem ipsum dolor <b> sit
ametconsectetur</b>adipisicingelit. Beatae debitisiustoautem, ab
```

```
quidem corporis voluptasveroconsequunturcorruptitotam ipsum
repellatdignissimosmagnisequivoluptatibusest nisi
aperiamdelectus.</p>
        <p>Lorem ipsum dolor <b> sit
ametconsectetur</b>adipisicingelit. Beatae debitisiustoautem, ab
quidem corporis voluptasveroconsequunturcorruptitotam ipsum
repellatdignissimosmagnisequivoluptatibusest nisi
aperiamdelectus.</p>
    </body>
</html>
```

Table styling

```html
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            /* in single line border */
            table{
                border-collapse: collapse;
            }
            tabletr:nth-of-type(even){
                background-color: greenyellow;
            }
            tabletr:nth-of-type(odd){
                background-color: rgb(100, 199, 238);
            }
            tabletd:nth-of-type(odd){
                background-color: aqua;
            }
        </style>
    </head>

    <body>

    <h1>Display table in HTML</h1>
    <tablewidth="50%"
    border="1px"
    cellspading="10px"
    cellspacing="10px"
```

```
    >
    <caption>Friends</caption>
    <colgroup>
   <colstyle="width: 150px;">
   <colstyle="width: 50px;">
   <colstyle="width: 100px;">
   </colgroup>
    <thead>
        <tr>
            <th>Name</th>
            <th>Age</th>
            <th>City</th>
        </tr>
   </thead>
   <tbody>
        <tr>
            <td>sathish</td>
            <td>17</td>
            <td>salem</td>
        </tr>
        <tr>
            <td>reeghan</td>
            <td>16</td>
            <tdrowspan="2">madurai</td>
        </tr>
        <tr>
            <td>raja</td>
            <td>18</td>

        </tr>
        <tr>
            <td>jaswin</td>
            <td>18</td>
            <td>coimbature</td>
        </tr>
        <tfoot>
            <tr>
                <tdcolspan="3">Noyes Friends</td>
            </tr>
        </tfoot>
   </tbody>
   </table>
   </body>
</html>
```

Display table properties

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            .table{
                margin-top: 100px;
                margin-left: 50px;
                /* border: 1px solid black; */
                width: 500px;

                display: table;
            }

            .row{ /*tr*/
                display: table-row;
            }
            .col{ /*td*/
                border: 1px solid orangered;
                padding: 10px 30px;
                display: table-cell;
            }
            .header{ /*thead*/
                display: table-header-group;
                font-size: 25px;
                font-weight: bold;
                text-align: center;
                background-color: orangered;
                color: white;
            }
            .footer{ /*tfoot*/
                display: table-footer-group;
            }
            .caption{
                display: table-caption;
                font-size: 30px;
                font-weight: bold;
                text-align: center;
```

```css
            color: orangered;
            padding: 10px;

        }
        .col-group{ /*colgroup*/
            display: table-column-group;
        }
        .tbl-col{ /*col*/
            display: table-column;
        }
        .col2{
            /* Only allow two property width and backgrund-
color */

            width: 30px;
            background-color: antiquewhite;

        }
        .row-group{
            display: table-row-group;
            color: orange;
        }
    </style>
</head>

<body>
    <h1>Display Table in CSS</h1>
    <div class="table">
        <div class="caption">
            Student Details
        </div>
        <div class="col-group">
            <div class="tbl-col">col-1</div>
            <div class="tbl-col col2">col-1</div>
            <div class="tbl-col">col-1</div>
        </div>
        <div class="header">
            <div class="row">
                <div class="col">Name</div>
                <div class="col">Age</div>
                <div class="col">City</div>
            </div>
        </div>
        <div class="row-group">
        <div class="row">
```

```html
                <div class="col">sam</div>
                <div class="col">17</div>
                <div class="col">salem</div>
            </div>
            <div class="row">
                <div class="col">ram</div>
                <div class="col">20</div>
                <div class="col">chennai</div>
            </div>
            <div class="row">
                <div class="col">ravi</div>
                <div class="col">25</div>
                <div class="col">salem</div>
            </div>
            <div class="row">
                <div class="col">sri</div>
                <div class="col">18</div>
                <div class="col">madurai</div>
            </div>
            <div class="row">
                <div class="col">mohan</div>
                <div class="col">24</div>
                <div class="col">bombay</div>
            </div>
        </div>
            <div class="footer">
                <div class="row">
                    <div class="col">Total student</div>
                    <div class="col"></div>
                    <div class="col">5</div>
                </div>
            </div>
        </div>

    </body>
</html>
```

Parent and child

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

```html
    <head>
        <title>Tutorials</title>
        <style>
            body{
                color: orange;
            }
            div{
                color: red;
            }
            p{
                color: blue;
            }
            a{
                color: violet;
                text-decoration: none;
            }

        </style>
    </head>

    <body>  <!--Parent-->
        <h1>Sathish</h1><!--Child-->
        <h3>Parent And Child in CSS</h3>
        <div><!--Child but parent in own child-->
            <h4>Heading</h4><!--child in div grand Child in body-->
            <p>Lorem ipsum, dolor
sitametconsecteturadipisicingelit. Laborum, voluptates!</p>

        </div>
        <h4>Heading-2</h4>
        <p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Error delectus animi enimcupiditate sunt harumillum labore minima?
A, debitis.</p>
        <p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Error delectus animi enimcupiditate sunt harumillum labore minima?
A, debitis.</p>
        <p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Error delectus animi enimcupiditate sunt harumillum labore minima?
A, debitis.</p>
        <ahref="#">Read More</a>
    </body>
</html>
```

Style preferences

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            /* Default
                * id selectors first prefernces
                * classselectorssecondprefernces
                * element selectors third prefernces
            Suppose I change the rule(that is break the rule) -->
element selctors is first prefernces
                *use !important
            */
            .test{
                color: gold;
            }
            #boxp{
                color: red;
            }
            /* p{
                color:red;
            } */

            p{
                color:green!important;
            }

        </style>
    </head>

    <body>
        <h1>Style preferences</h1>
        <p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Illocorrupti at laboriosamquasratione,
sintpossimusdebitisesseinventore minus? Ipsamrepudiandae et tempore
voluptatemlaudantiumreiciendis nisi eaquepraesentium?</p>
        <p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Illocorrupti at laboriosamquasratione,
sintpossimusdebitisesseinventore minus? Ipsamrepudiandae et tempore
voluptatemlaudantiumreiciendis nisi eaquepraesentium?</p>
```

```html
        <p>Lorem ipsum dolor sit ametconsecteturadipisicingelit.
Illocorrupti at laboriosamquasratione,
sintpossimusdebitisesseinventore minus? Ipsamrepudiandae et tempore
voluptatemlaudantiumreiciendis nisi eaquepraesentium?</p>
        <div id="box">
            <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Illocorrupti at
laboriosamquasratione, sintpossimusdebitisesseinventore minus?
Ipsamrepudiandae et tempore voluptatemlaudantiumreiciendis nisi
eaquepraesentium?</p>
            <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Illocorrupti at
laboriosamquasratione, sintpossimusdebitisesseinventore minus?
Ipsamrepudiandae et tempore voluptatemlaudantiumreiciendis nisi
eaquepraesentium?</p>
            <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Illocorrupti at
laboriosamquasratione, sintpossimusdebitisesseinventore minus?
Ipsamrepudiandae et tempore voluptatemlaudantiumreiciendis nisi
eaquepraesentium?</p>
            <p class="test">Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Illocorrupti at
laboriosamquasratione, sintpossimusdebitisesseinventore minus?
Ipsamrepudiandae et tempore voluptatemlaudantiumreiciendis nisi
eaquepraesentium?</p>
            Hi
        </div>
    </body>
</html>
```

Selectors types

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            /* element selectors */
            h1{
                color:blue;
            }
```

```css
            /* id selecrors */
            #one{
                color: rosybrown;
            }

            /* class selectors */
            .box{
                color: aqua;
            }

            /* Multiple selectors */
            h1,h3,.box{
                color: green;
            }

        </style>
    </head>

    <body>
        <h1>More selectors in CSS</h1>
        <pid="one">Lorem ipsum dolor, sit
ametconsecteturadipisicingelit. Sequi, voluptates.</p>
        <h3>sathish</h3>
        <divclass="box">
            <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Natus, laudantium!</p>

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

More about selectors

```html
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            .boxp{
                color: red;
```

```css
        }
        /* child selectors --> only style in child(direct
child) */

        .box>p{
            color: red;
        }
        /* adjacent(nearest) */
        .box+p{
            color: red;
        }
        /* Attribute selectors */
        div[class]{
            background: gray;
        }
        div[id]{
            background: gray;
        }

        /* in particular class or id */
        div[class~="inner"]{
            background: gray;
        }

        /* suppose use multiple  */
        /* For example -->inner and txt */
        /* inner class property affected */
        .txt{
            color: white;
        }
        /* solution is symbol ~ */
        div[class~="inner"]{
            background: gray;
        }
        .txt{
            color: white;
        }


    </style>
    </head>

    <body>
        <h1>More about selectors</h1>
```

```html
        <divclass="box">
            <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Hic, tenetur.</p>
            <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Hic, tenetur.</p>
            <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Hic, tenetur.</p>
            <divclass="inner txt">
                <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Alias, qui.</p>
                <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Alias, qui.</p>
                <p>Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Alias, qui.</p>

            </div>
        </div>
        <divid="first">This is div</div>
        <p>Lorem ipsum, dolor sitametconsecteturadipisicingelit.
Quo, porro!</p>
        <p>Lorem ipsum, dolor sitametconsecteturadipisicingelit.
Quo, porro!</p>
        <p>Lorem ipsum, dolor sitametconsecteturadipisicingelit.
Quo, porro!</p>


    </body>
</html>
```

Anchor tag properties

```html
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>

            a[title]{
                color: blanchedalmond;
            }
            a[title="Link-1"]{
```

```css
            color: orange;
        }

        a[href]{
            color:aqua
        }
        a[href="text.png"]{
            color:aqua
        }

        /* start with text channgecolor(add symbol ^)  */
        a[href^="test"]{
            color: blueviolet;
        }
        /* end with text channgecolor(add symbol ^)  */
        a[href$="#"]{
            color: red;
        }

    </style>
</head>

<body>
    <h1>Anchor tag</h1>
    <ahref="text.html"title="Link-1">List-1</a>
    <ahref="text.pdf"title="Link-2">List-2</a>
    <ahref="text.png"title="Link-3">List-3</a>
    <ahref="#"title="Link-4">List-4</a>
</body>
</html>
```

Pseudo class

```html
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            a{
                text-decoration: none;
            }
```

```
            a:hover{
                color: red;
            }
            a:active{
                color: orange;
            }
            a:visited{
                color:pink;
            }

        </style>
    </head>

    <body>
        <h1>Pseudo class in CSS</h1>
        <ahref="01_inline.html"title="Link-1">List-1</a>
        <ahref="02_internal.html"title="Link-2">List-2</a>
        <ahref="03_external.html"title="Link-3">List-3</a>
        <ahref="04_fontproperties.html"title="Link-4">List-4</a>
        <ahref="#"title="Link-5">List-5</a>
    </body>
</html>
```

Access child class

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            ulli:first-child{
                color: red;
            }

            ulli:nth-child(2){
                color: yellowgreen;
            }

            ulli:nth-child(odd){
                color: yellowgreen;
            }
```

```
        ulli:last-child{
            color: orange;
        }

    </style>
</head>

<body>
    <h1>Access child in CSS</h1>
    <ul>
    <li>sathish 1</li>
    <li>sathish 2</li>
    <li>sathish 3</li>
    <li>sathish 4</li>
    <li>sathish 5</li>
    </ul>
</body>
</html>
```

Border radius

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            .box{
                height: 150px;
                width: 150px;
                background: -webkit-linear-
gradient(#e67e22,#e74c3c);
                border-radius: 150px;  /*Circle*/
                /* border-radius:  */
                border-radius: 0px20px0px10px;

                border-radius: 10px20px  50px;
                border-radius: 10px20px ;


            }
```

```
        </style>
    </head>

    <body>
        <h1>Border Radius in CSS</h1>
        <divclass="box"></div>
    </body>
</html>
```

Colors

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            /* mostly used
                1) color format( eg: red)
                2) hexdecimal
                3) rgb(x,y,z)
                    rgb stands for red green blue
                    x,y,z belong 0 to 255
                4) rgba(x,y,z)
                    rgb stands for red green blue alpha(that mean
opacity(transferency))
                    eg:rgba(255,0,0,0.5)
                use wedsite adobe color picker

            */
            h1{
                color: rgba(255, 0, 0,0.5);
            }
        </style>
    </head>

    <body>
        <h1>Colors in CSS</h1>
    </body>
</html>
```

Back shadow

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            .box{
                width: 150px;
                height: 150px;
                background: orangered;
            }
            .shadow{
                /* syntax
                    boxshadow: horizontal offset  vertical offset
 blur  spread radius  color
                */
                /* -webkit-box-shadow: 10px 10px10px 0px
rgba(0,0,0,0.5);
                -moz-box-shadow: 10px 10px10px 0px rgba(0,0,0,0.5);
*/

                box-shadow: 10px10px5px0pxrgba(0,0,0,0.15);
            }

        </style>
    </head>

    <body>
        <h1>Box shadow in CSS</h1>
        <div class="box shadow"></div>
    </body>
</html>
```

Chess board

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

```html
<html>
    <head>
        <title>Tutorials</title>
        <style>
            html{
                background: grey;
            }
            body{
                width:800px;
                height: 800px;
                background: white;
                margin: 50px auto

            }
            .row{
                width:100%;
                height: 100px;
                float: left;

            }
            .box{
                width: 100px;
                height: 100px;
                float: left;
                font-size: 75px;

                text-align: center;
            }

            .box:hover{
                color:orange;
            }


            .black{
                background: rgb(195, 92, 109);
            }
            .boxshadow{
                box-shadow: 40px 40px 10px 0px rgba(26, 23, 23,0.5);
            }

        </style>
    </head>
```

```html
<bodyclass="boxshadow">
    <divclass="row">
        <divclass="box">&#9814;</div>
        <divclass="box black">&#9816;</div>
        <divclass="box">&#9815;</div>
        <divclass="box black">&#9813;</div>
        <divclass="box">&#9812;</div>
        <divclass="box black">&#9815;</div>
        <divclass="box">&#9816;</div>
        <divclass="box black">&#9814;</div>
    </div>
    <divclass="row">
        <divclass="box black">&#9817;</div>
        <divclass="box">&#9817;</div>
        <divclass="box black">&#9817;</div>
        <divclass="box">&#9817;</div>
        <divclass="box black">&#9817;</div>
        <divclass="box">&#9817;</div>
        <divclass="box black">&#9817;</div>
        <divclass="box">&#9817;</div>
    </div>
    <divclass="row">
        <divclass="box"></div>
        <divclass="box black"></div>
        <divclass="box"></div>
        <divclass="box black"></div>
        <divclass="box"></div>
        <divclass="box black"></div>
        <divclass="box"></div>
        <divclass="box black"></div>
    </div>
    <divclass="row">
        <divclass="box black"></div>
        <divclass="box"></div>
        <divclass="box black"></div>
        <divclass="box"></div>
        <divclass="box black"></div>
        <divclass="box"></div>
        <divclass="box black"></div>
        <divclass="box"></div>
    </div>
    <divclass="row">
        <divclass="box"></div>
        <divclass="box black"></div>
```

```html
        <div class="box"></div>
        <div class="box black"></div>
        <div class="box"></div>
        <div class="box black"></div>
        <div class="box"></div>
        <div class="box black"></div>
    </div>
    <div class="row">
        <div class="box black"></div>
        <div class="box"></div>
        <div class="box black"></div>
        <div class="box"></div>
        <div class="box black"></div>
        <div class="box"></div>
        <div class="box black"></div>
        <div class="box"></div>
    </div>
    <div class="row">
        <div class="box">&#9823;</div>
        <div class="box black">&#9823;</div>
        <div class="box">&#9823;</div>
        <div class="box black">&#9823;</div>
        <div class="box">&#9823;</div>
        <div class="box black">&#9823;</div>
        <div class="box">&#9823;</div>
        <div class="box black">&#9823;</div>
    </div>
    <div class="row">
        <div class="box black">&#9820;</div>
        <div class="box">&#9822;</div>
        <div class="box black">&#9821;</div>
        <div class="box">&#9819;</div>
        <div class="box black">&#9818;</div>
        <div class="box">&#9821;</div>
        <div class="box black">&#9822;</div>
        <div class="box">&#9820;</div>
    </div>

</body>
</html>
```
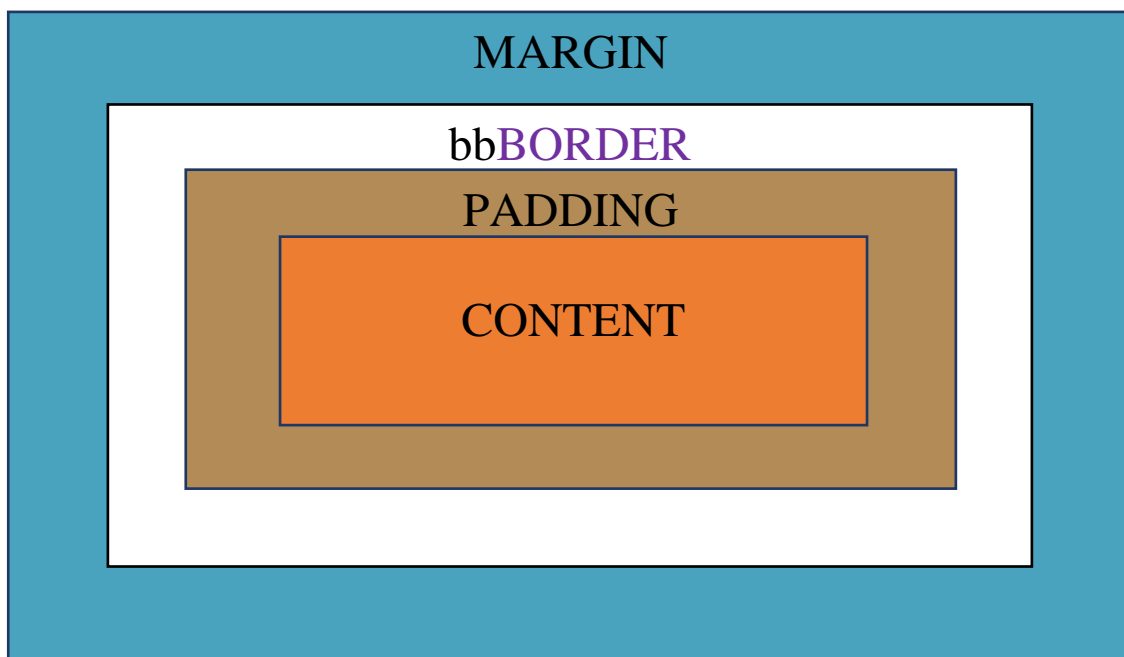
CSS Layout Design

- ➢ Box Model in CSS
- ➢ Normal Document Flow
- ➢ Display Properties
- ➢ Float properties
- ➢ Position
  - **Static**
  - **Relative**
  - **Absolute**
  - **Fixed**

Box model in CSS

Box Model

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
```

```html
            <link rel="stylesheet" type="text/css" href="30(1)Style.css">
    </head>

    <body>
        <h1>Box Model in CSS</h1>
        <div class="box">Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Dolore quo
reprehenderitnesciuntpraesentiumsapientealiquamveroexpeditaoditnull
a et.
        </div>
        <div class="box">Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Dolore quo
reprehenderitnesciuntpraesentiumsapientealiquamveroexpeditaoditnull
a et.
        </div>



    </body>
</html>
```

Style.css

```css
*{
    margin: 0px;
    padding: 0px;
}

body{
    background-color: #a1a1a1;
    color: white;
}

.box{
    height: 150px;
    width: 400px;
    text-align: justify;
    background: teal;
    margin: 50px;
    padding: 10px;
    border: 10pxdoublewhite;
}
```

Normal document flow

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <link rel="stylesheet" type="text/css" href="31(1)Style.css">
    </head>

    <body>
        <h1>Normal Document Flow</h1>
        <div class="container">
            <p>
                1.Lorem ipsum dolor sit
amet consectetur adipisicing elit. Fugiat porro, reprehenderit quasi
consequuntur iusto quod neque, ullam minima qui
laudantium pariatur dolores odio nisi non alias! Quos
aliquam quisquam laborum!
            </p>
            <p>
                2.Lorem ipsum dolor sit
amet consectetur adipisicing elit. Fugiat porro, reprehenderit quasi
consequuntur iusto quod neque, ullam minima qui
laudantium pariatur dolores odio nisi non alias! Quos
aliquam quisquam laborum!
            </p>
            <p>
                3.Lorem ipsum dolor sit
amet consectetur adipisicing elit. Fugiat porro, reprehenderit quasi
consequuntur iusto quod neque, ullam minima qui
laudantium pariatur dolores odio nisi non alias! Quos
aliquam quisquam laborum!
            </p>
        </div>
    </body>
</html>
```

Style.css

```css
*{
    margin: 0px;
```

```css
    padding: 0px;
}
body{
    background-color: #a1a1a1;
}

.container{
    background: #fff;
    max-width: 800px;
    margin:0pxauto;
    padding: 20px;
}
p{
    /* Noraml document flow refers sequence style */
    text-indent: 25px;
    background: teal;
    color: white;
    margin-top: 10px;
    padding: 10px;


}
```

Position properties
1) Static
   * static is default
   * it regular document flow
2) Relative

   * Relative is similar to static but it has extra four property
     LTRB
   * it is mostly used combine with absolute position
3) Absolute
   * break the document flow
   * Also used
     LTRB

Additional used
   relative property
      * relativ position is used in parent
      * suppose parent cannot have relative position, then child
position in anywhere in html block
      * if parent have relative position, then child position in parent
block

4) Fixed
   * break the document flow
   it is used to fixed anywhere in document
5) Sticky
   * break the document flow
   it is used to stick the navbar or other any where in document

```html
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <linkrel="stylesheet"type="text/css"href="32(1)style.css">

<linkrel="stylesheet"type="text/css"href="32(2)Position.css">
    </head>

    <body>
        <h1>Position Properties in CSS</h1>
        <divclass="main">
            Main Box
            <divclass="box1 box">Box-1</div>
            <divclass="box2 box">Box-2</div>
            <divclass="box3 box">Box-3</div>
        </div>
    </body>
</html>
```

Style.css

```css
.main{
    border: 5px solid gray;
    width: 500px;
    min-height: 500px;
    font-weight: bold;
}

.box{
    width: 100px;
    height: 100px;
    color: white;
    padding: 10px;
    font-weight: bold;
}
.box1{
    background-color: teal;
}
.box2{
    background-color: tomato;
}
.box3{
    background-color: yellowgreen;
}
```

Position.css

Sticky

- Its default
- it regular document flow

Relative

```css
.main{

}

.box1{
    position: relative;
    left: 50px;
    top: 50px;
    bottom: 50px;
}
```

```css
.box2{

}

.box3{

}
```

Absolute

```css
.main{
    position: relative;
}

.box1{
    position: absolute;
    /* display: none; */
    /* top: 0; */
    bottom: 0;
    right: 0;
    left: 100px;

}

.box2{

}

.box3{

}
```

Fixed

```css
.main{
    position: relative;
}

.box1{
    position: fixed;

    top: 200px;
```

```css
    right: 200px;
    /* left: 100px; */

}

.box2{

}

.box3{

}
```

Sticky

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <link rel="stylesheet" type="text/css" href="32(1)style.css">

<link rel="stylesheet" type="text/css" href="32(2)Position.css">
    </head>

    <body>
        <h1>Position Properties in CSS</h1>
        <h2>sticky</h2>
        <div id="header">Header</div>
        <div id="navbar">
         <ul>
            <li>Home</li>
            <li>About</li>
            <li>Contact</li>
            <li>Downloads</li>
            <li>Products</li>
         </ul>
        </div>
        <div id="box">
         <p>
            Lorem ipsum dolor sit amet consectetur adipisicing elit.
Fugiat praesentium consequatur harum maiores mollitia nemo nisi
```

atqueplaceatsequiasperiores, laboriosamdoloremvero dolore molestiae, sed doloribus ab, saepeillo alias? Culpa id alias quaerepellatquaeratdebitis, quos, rationeullamaspernatur, iuresequi labore doloremqueodit! Nesciunt a animi qui aliquidiustomollitiaveritatisquaedebitis error reprehenderit rem ratione, ex minima excepturiaccusantiumeaque. Reiciendis cum culpa provident, ipsum quam ab repellendusesse fugit autemdoloremque in distinctio ex totam, nesciuntfacereillo. Reprehenderitcupiditatetotam, minus mollitiarepellatquiaaccusantiumipsa in quasi repudiandaedoloremeosipsamquidem, cumquedebitisquis, nam ab nesciuntlaborumobcaecatiporroquisquam culpa deseruntrecusandae! Placeatillo sed, cum et vitae officiisexcepturi quasi? Aliquamfacere, porroexcepturireprehenderit et iure provident corporis, cum quibusdam dicta voluptatemearumdebitis, officianequedolorem ex omnisrepellat! Temporaconsequaturdelenitiquibusdam fugit corruptiaspernaturinventoredebitis, harum corporis neque, voluptatibusadipisciplaceat error nostrum? Cumqueblanditiis error eiusconsequunturdoloribusofficiaexcepturi nobis eaiusto cum alias dicta ipsamrepellat fugit non labore, totamquiainventore animi beatae ipsum magnitemporibus? Ipsum odioinventorecommodiiure minus officia quasi unde? Eum, doloremquedistinctio, fugiatdoloremaperiam beatae ipsamillumvoluptasnumquamtemporarepellat sunt architectovelit sit ut ab quisquam, harumofficiis? Dolorem rerum cumqueperferendisdoloremquelaborumeaque dolore impedit, illorepudiandae. Aliquid ipsum blanditiis rerum. Consequaturmagniestoptioquibusdameos hic labore necessitatibusperferendisautemauttotamenimobcaecati animi maioresquaerat, ullamsaepeexercitationemillumnam! Quaerat vitae saepeeumharumasperiores, iusto tempore quisperferendisaccusantium qui aperiamametoptio, excepturicorruptidoloresducimus. Esseautnamaliquamipsacupiditaterepellendus, reprehenderit culpa quisoditnecessitatibus, soluta ab natusobcaecatimagni sed quae, quidem tempore dicta consequunturenimtemporibusdignissimosporro alias eligendi. Quodveritatisreprehenderitmodirepellendus ex, quaerat cum velitvero corporis! Ametconsectetur non mollitiaquisenim et? Cumquesapientelaudantiummaiores? Ad voluptateut nemo commodimollitia sunt itaque error explicabo, doloribusadipiscimodilaboriosamnatusnequesapiente vitae corporis veniam beatae quameaque. Voluptasquae, aliquidconsequunturexplicabo delectus saepeiurevoluptatesadneque quos, beatae provident officiatotamest, nulladeseruntmagnam animi atqueisteoditexercitationemquibusdam? Assumendaeius quasi aliquam

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        </p>
        </div>
        <divid="footer">Footer</div>
    </body>
</html>

Style.css

```css
*{
    margin: 0;
    padding: 0;
}

html{
    width: 100%;
    height: 100%;
}

#header, #footer{
    width: 100%;
```

```css
        height: 200px;
        background-color: yellowgreen;
        padding: 5px;
}

#navbar{
        width: 100%;
        height: 50px;
        background-color: tomato;
        padding: 5px;
        position: sticky;
        top: 0;
}

#box{
        width: 100%;
        padding: 10px;
}

#navbar ul li{
        display: inline-block;
        list-style-type: none;
        padding: 10px;
        line-height: 30px;
        color: white;

}
```

z-index

```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>Z-index</title>
    <style>
        /* this code is run some of them command please */
```

```css
/* Z-index is high that is first */
/* Z-index is 0 that is last */
/* Z-index is -ve that is outside the parent */
.box{
    width: 800px;
    height: 500px;
    background: #ccc;
    position: relative;
}
.boxdiv{
    height: 200px;
    width: 200px;
    position: absolute;

}
.box-1{
    background: teal;
    color: white;
    top:100px;
    left: 50px;
    z-index: 2; /*top*/
}
.box-2{
    background: orangered;
    color: white;
    top:150px;
    left: 100px;
    z-index: -1;/*outside the parent*/
}
.box-3{
    background: purple;
    color: white;
    top:200px;
    left: 150px;
    z-index: 0;/*last*/
}
    </style>
</head>
<body>
    <h1>Z-index in CSS</h1>
    <divclass="box">
        <divclass="box-1">Box-1</div>
        <divclass="box-2">Box-2</div>
        <divclass="box-3">Box-3</div>
```

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

Outline

```
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            div{
                width: 300px;
                border: 3px solid brown;
                padding: 30px;
                outline: 2px solid blue;

                outline-width: 3px;
                outline-style: dotted;
                outline-color: red;

                outline-offset: 3px;
            }
        </style>
    </head>

    <body>
        <h1>Outline in CSS</h1>
        <div>
            <p>
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uri.
            </p>
        </div>
    </body>
</html>

<!--
```

```
    outline-width
    outline -style
        * solid
        * dotted
        * dashed
        * double
        * groove
        * ridge
        * inset
        * outset
        * none

    outline-color
    outline-offset
-->
```

min-height & max-height

min-height denoted as minimum height(that is atleast height, more content are there, its expand)

max-height denoted as maximum height(that is atmost height, more content are there, it cannot expand)

max-width & max-height

It is similar to height

Box-Sizing

- Border-box
- Content-box is default

Picture

Picture

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
```

```
        <style>
            div{
                width: 300px;
                height: 300px;
                background-color: aliceblue;
                padding: 10px;
                border: 10px solid black;
                box-sizing: border-box;



            }
        </style>
    </head>

    <body>
        <h1>Box-Sizing in CSS</h1>
        <div>

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

Overflow

```
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            div{
                width: 500px;
                height: 200px;
                border: 5px solid green;
```

```css
                overflow: visible; /*Default*/
                overflow: hidden;
                overflow: scroll;
                overflow: auto;
                overflow-y: scroll; /*Manual*/
                overflow-x: scroll;

            }
            img{
                width: 100%;
            }
        </style>
    </head>

    <body>
        <h1>Overflow in CSS</h1>
        <div>
            <imgsrc="natural.webp"alt="">
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eosimpedit. Id culpa autsaepe ab sapiente.
        </div>
    </body>
</html>
```

CSS Selector

1) Simple Selectors

1) Element
2) Class
3) Id
4) Universal
   2) Combinators Selectors
      1) Descendant
      2) Direct child
      3) Adjacent siblings
      4) General siblings
   3) Attribute selectors
   4) Pseudo Class selectors
   5) Pseudo element selectors

Simple selectors

Element selectors

Particular element can be select

```css
h1{
    font-size: 30px;
}
```

Class

Can select select group of selectors

```css
.box{
    font-size: 30px;
}
```

Id

Id is unique that can be select particular unique element

```css
#one{
    font-size: 30px;
}
```

Universal selectors

All the elements can be select(all tag)

```css
*{
        margin: 0;
        padding: 0;
}
```

Combinators Selectors

Descendant

```css
.box p{
        color: red;
}

        .box p span{
            color: blue;
            font-weight: bold;
}
```

Direct child

Only select direct child

```css
.box>p{
        color: blue;
}
```

Adjacent siblings

Nearby element can select

```css
.box+p{
        color: blue;
}
```

General siblings

Attribute selectors

Pseudo Class selectors

:root pseudo selectors

```css
:root{
        --bgcolor: aliceblue;
        --txtcolor: teal;
    }
    h1{
        color: var(--txtcolor);
    }
    p{
        color: var(--txtcolor);
        background: var(--bgcolor);
    }
```

Pseudo class selectors | first-child | last-Child

Child(Pseudo selectors) should have parent, then it is work

```css
/* choosing first child */
    li:first-child{
        color: orange;

    }
    /* choosing last child */
    li:last-child{
        color: red;

    }
    /* Choosing specific selectors and first child or last child */
    #list-1li:first-child{
        color: teal;
    }
```

Pseudo class selectors | nth-child() | nth-last-Child()

```css
/* Choosing nth child */
    li:nth-child(5){
     color: blue;
    }
    /* Choosing specific list nth child */
    #list-1li:nth-child(5){
     color: teal;
    }
    /* Choosing last child that is reverse order that is last
element is first element */
    li:nth-last-child(1){
     color: red;
    }
    /* Alsopossiuble formula
    2n
    2n+1
    3n-1 where n=0,1,2,3,4,5,6...... */
    /* Choosing formula in nth-child()*/
    li:nth-child(2n){
     color: blue;
    }
```

Pseudo class selectors | nth-of-type() | nth-last-of-type ()

Child need not have parent

```css
p:nth-of-type(1){
    color:red
}
p:nth-last-of-type(1){
    color:blue
}
li:nth-of-type(1){
    color:red
}
li:nth-last-of-type(1){
    color:blue
}
//also using odd, even, formula and useful in table styling
```

Pseudo class selectors | :only-child()

should have parent

Parent should have only one child, the it is work

```css
li:only-child{
    color: teal;
}
```

Pseudo class selectors | :only-of-type()

Need not have parent

But only one element in document

```css
li:only-of-type{
    color: teal;
}
p:only-of-type{
    color: red;
}
```

Pseudo class selectors | :first-of-type() | :last-of-type()

It can select first or last element with parent or without parent

```css
li:first-of-type{
    color:red;
}
li:last-of-type{
    color:green;
}
p:first-of-type{
    color:red;
}
p:last-of-type{
    color:green;
}
```

Pseudo class selectors| :empty

Only select empty tag(eg : paragraph)

Note that space is also character, it means have content

```css
p:empty{
    padding: 10px;
    border: 2px solid red;
}
```

Pseudo class selectors | :not

It is used to select the tag based on not

Eg select paragraph based on not class para

```css
p.para{
    color: red;
}
p:not(.para){
    color: blue;
}
```

Pseudo class selectors | :lang

It is used to style language based

```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>Element selectors</title>
    <style>
      p:lang(en){
       color: red;
      }
      p:lang(fr){
       color: blue;
      }


    </style>
</head>
```

```html
<body>
    <h1>heading</h1>
    <p lang="fr">Ainsi, les salons se parent de bougies et de
sapins. Engénéral, les françaisoptent pour des sapinsen pot afin de
prolonger la magie du moment. L'arbre odorant estparé de guirlandes
et de boules tandisqu'une étoile chatoyanteestajoutée sur la cime.
Bien entendu les cadeaux de Noël serontdéposésuniquement le 24
décembre au soirafin de permettre le déballage le
lendemainmatin.</p>
    <p lang="en">Lorem ipsum, dolor sit
ametconsecteturadipisicingelit. Rationeaperiam sit, non debitis
nisi molestiaeblanditiisistetemporavoluptatumexpedita a
necessitatibuslaudantium! Molestias, veniamenim!
Eautsaepedoloremque!</p>
</body>
</html>
```

Pseudo class selectors :link | :hover | :visited | :active

```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>anchor tag</title>
    <style>
        diva{
            display: inline-block;
            width: 100px;
            height: 30px;
            background-color: aliceblue;
            text-align: center;
            line-height: 30px;

        }
        a:link{
            color: pink;
        }
        a:hover{
            background-color: teal;
            color:white
```

```
        }
        a:active{
            color: orangered;
        }
        a:visited{
            color: blue;
        }
    </style>
</head>
<body>
    <div>
        <ahref="#l11">link-1</a>
        <ahref="#l22">link-2</a>
        <ahref="#l33">link-3</a>
        <ahref="#l44">link-4</a>
    </div>
</body>
</html>
```

Pseudo class selectors| :target

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            p{
                padding: 10px;
                background-color: aliceblue;
            }
            p:target{
                background-color: aquamarine;
                color: blue;
            }
        </style>
    </head>

    <body>
        <h1>Target</h1>
        <ahref="#para-1">para-1</a>
        <ahref="#para-2">para-2</a>
        <ahref="#para-3">para-3</a>
```

```
        <pid="para-1">Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Vitae non
quasquaeratcorruptiaspernatur, tempore est dicta delenitiobcaecati,
ducimusodit, id magni? Earummagnamullammolestiaeexpeditaodio
ea.</p>
        <pid="para-2">Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Vitae non
quasquaeratcorruptiaspernatur, tempore est dicta delenitiobcaecati,
ducimusodit, id magni? Earummagnamullammolestiaeexpeditaodio
ea.</p>
        <pid="para-3">Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Vitae non
quasquaeratcorruptiaspernatur, tempore est dicta delenitiobcaecati,
ducimusodit, id magni? Earummagnamullammolestiaeexpeditaodio
ea.</p>
    </body>
</html>
```

Form CSS Pseudo class selectors

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            /* Focus */
            #txt:focus{
                outline: none;
                border: 1pxsolidbrown;
            }
            /* checkbox is tick then work */
            input[type="checkbox"]:checked{
                box-shadow: 0003pxred;
            }
            /* enabled */
            input[type="text"]:enabled{
                background-color: pink;
            }
            /* Disabled */
            input[type="text"]:disabled{
                background-color: red;
```

```css
            }
            /* required */
            input[type="text"]:required{
                background-color: green;
            }
            /*Read write   */
            input[type="email"]:read-only{
                background-color: gray;
            }
            /*Read only   */
            input[type="email"]:read-write{
                background-color: plum;
            }
            /* invalid */
            input[type="text"]:invalid{
                border-color: red;
            }
            /* valid */
            input[type="text"]:valid{
                border-color: rgb(15, 225, 15);
            }
            /* Default in radiobutton */
            input[type="radio"]:default{
                box-shadow: 0003pxgreen;
            }
            /* Select default option */
            option:default{
                color: red;
            }


    </style>
</head>

<body>
    <h1>Form CSS Pseudo Class Selector</h1>

    <span>:focus</span>
    <inputtype="text"id="txt">
    <hr>

    <span>:checked</span>
     <inputtype="checkbox"id="cricket">
     <labelfor="cricket">Cricket</label>
```

```html
        <input type="checkbox" id="football">
        <label for="football">Football</label>
        <input type="checkbox" id="tennis">
        <label for="tennis">Tennis</label>
        <!-- for attribute is important for attribut la entha
element target panirigaloathakudukanum-->
        <hr>

        <span>:enabled :disabled :required :optional</span>
        <br>
        <input type="text">
        <br>
        <input type="text" disabled>
        <br>
        <input type="text" required>
        <br>
    <hr>
        <span>:read-only :read-write</span>
        <br>
        <input type="email">    <!--read-write is default-->
        <br>
        <input type="email" readonly>
        <br>
        <span>:valid :invalid</span>
        <br>
    <input type="text" placeholder="Enter Username" pattern="[a-
z]*"><!--Regular expression (pattern) -->
        <hr>

        <span>Default</span>
        <br>
        <input type="radio" name="gender" id="male" checked>
        <label for="male">Male</label>
        <input type="radio" name="gender" id="female">
        <label for="female">Female</label>

        <hr>
        <select>
            <option value="">select</option>
            <option value="C">C</option>
            <option value="C++">C++</option>
            <option value="Java">Java</option>
            <option value="CSS" selected>CSS</option>
        </select>
```

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

is() Pseudo Class Selector

```html
<!DOCTYPE html>
<html lang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            #d1{
                background-color: aliceblue;
            }
            #d2{
                background-color: antiquewhite;
            }
            /* Now task */
            /* d1 la irruka h2,h3,h4 select panuga d2 */

            /* Normal Method */
            #d1 h2,
            #d1 h3,
            #d1 h4{
                color: red;
            }

            /* Easy method */
            #d1 :is(h2,h3,h4){
                color: blue;
            }
            /* Other Task */
            /* d1 la irruka h2 and d2 la irruka h2 select panuga */

            /* Normal Method */
            #d1 h2,
            #d2 h2{
                color: green;
            }
            /* Easy method */
            :is(#d1,#d2) h2{
                color: brown;
            }
```

```css
            /* Other new task */

            /* d1, d2 la irruka h2 and paragraph select panuga */
            :is(#d1,#d2) :is(h2,p){
                color: red;
            }
            /* Hover  */
            :is(#d1,#d2) h2:hover{
                color: chocolate;
            }
        </style>
    </head>

    <body>
        <h1>is() Pseudo Class Selector</h1>
        <div id="d1">
            <h2>H2 - Heading One</h2>
            <h3>H3 - Sub Heading - 1</h3>
            <p>
                Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Delenitisaepe a hic consectetur!
Eumquammolestiaecumquetenetursapientecupiditateperferendisexcepturi
odionulladignissimos. Cupiditatedeseruntaccusamusrationeodio!
            </p>
            <h4>H4 - Sub Heading - 2</h4>
            <p>
                Lorem ipsum dolor sit
ametconsecteturadipisicingelit. In
impeditcorruptiexpeditaitaqueveniamvoluptatemut,
istenumquamilloquidem, omnisadipisci nostrum temporibusamet! Quo,
officia! Deleniti, fugafacere.
            </p>
        </div>
        <hr>
        <div id="d2">
            <h2>H2 - Heading Two</h2>
            <p>
                Lorem ipsum dolor sit,
ametconsecteturadipisicingelit. Blanditiis error animi,
utlaborumporro nostrum eosevenietdeleniti, provident vel
veniamconsequatur! Eveniet, architecto quos! Tempore
dolorumdoloribusconsequatur nihil?
            </p>
```

```
        </div>
        <!-- This para is outside therefore cannot do any thing -->
        <p>
            <b>Outside</b> Lorem ipsum dolor sit
ametconsecteturadipisicingelit. Aliquam, dolorem alias? Impedit
fugit, namvelit cum quidemblanditiiscorruptiofficiareprehenderit
vitae repellendus,
laudantiumducimusvoluptaspraesentiumrationeundeadipisci.
        </p>
    </body>
</html>
```

Pseudo element selectors

::before

::after

::first-letter

::selection

::placeholder

```
<!DOCTYPEhtml>
<htmllang="en">
<html>
    <head>
        <title>Tutorials</title>
        <style>
            /* Placeholder */
            input::placeholder{
                color: teal;
            }
            /* Selection */
            p::selection{
                background-color: #222f3e;
                color: white;
            }
            /* First letter pseudo selectors */
            P::first-letter{
                font-size: 40px;
                font-weight: bold;
                color: red;
```

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

            .box{
                background-color: #333;
                color: white;
                width: 300px;
                height: 100px;
                position: relative;
            }
            /* Before and after acts a element
            speciality, both before and after selectors styling
individual
            before and after selectors inside block la irrukum(eg
box)
            position property do and style individual */
            .box::before{
                /* complusory content irrukanum may empty or some
information */
                content:'';
                width: 100%;
                height: 20px;
                background-color: #ff4757;
                position: absolute;
                top:0;
                left: 0;
            }
            .box::after{
                /* compulsory content irrukanum may empty or some
information */
                content:'';
                width: 100%;
                height: 20px;
                background-color: #ff4757;
                position: absolute;
                bottom:0;
                left: 0;
            }
        </style>
    </head>

    <body>
```

```html
    <h1>Pseudo element selectors</h1>
    <div class="box">Pseudo elements</div>

        <p>
            Lorem ipsum dolor, sit
ametconsecteturadipisicingelit. Non rationenesciunt quasi, earum
quo veniameligendi culpa in, reiciendisquasaperiamquamsint,
corruptidolorumiustomagnamofficia! In, porro?
        </p>

        <p>
            Lorem ipsum dolor, sit
ametconsecteturadipisicingelit. Non rationenesciunt quasi, earum
quo veniameligendi culpa in, reiciendisquasaperiamquamsint,
corruptidolorumiustomagnamofficia! In, porro?
        </p>

        <input type="text" placeholder="Enter Name">
    </div>

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

Transitionin CSS

1) transition-property
2) transition-duration
3) transition-delay
4) transition-timing-function
5) transition

units	Description
ease	Start slow →Fast → End slowly
linear	Maintain same speed from start to end
ease-in	Slow start and speed
ease-out	Slow end
ease-in-out	Slow start and end

step-start	
step-end	
step(4,end)	
cubic-bezier	We can create with own values Google search

Transitional properties
Background
Background-color
Background-position
Background-size
Backdrop-filter
border
border-block-end
border-block-end-color
border-block-end-width
border-block-start
border-block-start-color
border-block-start-width
border-bottom
border-bottom-color
border-bottom-left-radius
border-bottom-right-radius
border-bottom
border-bottom-color
border-bottom-width
border-color
border-end-end-radius
border-end-start-radius
border-image-outset
border-image-slice
border-image-width

border-inline-end
border-inline-end-color
border-inline-end-width
border-inline-start
border-inline-start-color
border-inline-start-width
border-left
border-left-color
border-left-width
border-radius
border-right
border-right-color
border-right-width
border-start-end-radius
border-start-start-radius
border-top
border-top-color
border-top-left-radius
border-top-right-radius
border-top-width
border-width
bottom
box-shadow
caret-color
clip
clip-path
color
column-count
column-gap
column-rule
column-rule-color
column-rule-width
column-width
columns

filter
flex
flex-basis
flex-grow
flex-shrink
font
font-size
font-size-adjust
font-stretch
font-variation-settings
font-weight
gap
grid-column-gap
grid-gap
grid-row-gap
grid-template-columns
grid-template-rows
height
inline-size
input-security
inset
inset-block
inset-block-end
inset-block-start
inset-inline
inset-inline-end
inset-inline-start
left
letter-spacing
line-clamp
line-height
margin
margin-block-end
margin-block-start

margin-bottom

margin-inline-end

margin-left

margin-right

margin-top

mask

mask-border

mask-position

mask-size

max-block-size

max-height

min-inline-size

max-lines

max-width

min-block-size

min-height

min-inline-size

min-width

object-position

offset

offset-anchor

offset-distance

offset-path

offset-position

offset-rotate

opacity

order

outline

outline-color

outline-offset

outline-width

padding

padding-block-end

padding-block-start

padding-bottom

padding-inline-end

padding-inline-start

padding-left

padding-right

padding-top

perspective

perspective-origin

right

rotate

row-gap

scale

shape-margin

scroll-margin-block

scroll-margin-block-end

scroll-margin-block-start

scroll-margin-inline

scroll-margin-inline-end

scroll-margin-inline-start

scroll-margin-left

scroll-margin-right

scroll-margin-top

scroll-padding

scroll-padding-block

scroll-padding-block-end

scroll-padding-block-start

scroll-padding-bottom

scroll-padding-inline

scroll-padding-inline-end

scroll-padding-inline-start

scroll-padding-left

scroll-padding-right

scroll-padding-top

scroll-snap-coordinate

scroll-snap-destination
scrollbar-color
shape-image-threshold
shape-margin
shape-outside
tab-size
text-decoration
text-decoration-color
text-decoration-thickness
text-emphasis
text-emphasis-color
text-indent
text-shadow
text-underline-offset
top
transform
transform-origin
translate
vertical-align
visibility
width
word-spacing
z-index
zoom

Flex Box

- ✓ Flex box is not a framework or anything like that. Its is a new box model and no extra dependencies required.
- ✓ Flex stands for flexible, adaptive

Flex box is the alternative for

display: block;

display: inline;

display: inline-block;

Advantages of flex box

- ✓ Easy to align element in vertical centering
- ✓ Flex box can have display order reversed or rearranged at the style layer
- ✓ One of the main advantages of flexbox is the ability to fill extra space without the need to use JavaScript

Main Axis and Cross axis

- Main axis represents x axis
- Cross axis represents y axis

Flex-direction