CSS Colors

- Colors in CSS can be defined by using 3 techniques
    - Color Name
    - Hexadecimal color code
    - RGB Color Methods / RGBA
- You can also define color gradients.

Color Names

- CSS supports 16 million colors.
- Standard color names are few.
- You can directly define the color name or color shade name.
  Syntax:
  h2{
   color:green;
  }
  P {
   color:lightgreen;
  }

Hexadecimal color code

- The primary colors are "Red, Green & Blue".
- All colors are derived from RGB.
- Hexadecimal allows to define multiple color shades.
- Hexadecimal have combination of 3 or 6 chars with prefix "#"

- Hexadecimal number system is 16 base number system.
- We use 16 different values to mix and create a new color.
- Hexadecimal color code uses the values **0,1,2,3,4,5,6,7,8,9,a,b,c,d,e,f**
- **0** is minimum and **f** is maximum.
- Color code have 3 or 6 places other than "#"
- If it is 3 then "#RGB"
- Red, Green and Blue value have only 1 place
- RGB value can be between 0 to f.

Syntax:

 #0f0

 #fff

Ex:

```
<!DOCTYPE html>

<html>

  <head>

    <style>

      body {

        background-color: #af0;

      }

    </style>

  </head>

  <body>
```

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

- If it is 6 places then "#RRGGBB"

Syntax:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
        background-color: #00ff00;
      }
    </style>
  </head>
  <body>


  </body>
</html>
```

RGB color code:

- The method "rgb()" is used for defined RGB color.
- It is a combination of Red, Green and Blue.

- In "rgb()" the values for every color can range from 0 to 255.
  R – 0 to 255
  G – 0 to 255
  B – 0 to 255
  Syntax:
  rgb(0,0,255); blue
  rgb(255,0,0); red

Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
        background-color:rgb(250,135,184);
      }
    </style>
  </head>
  <body>

  </body>
</html>
```

RGBA (Red, Green, Blue, Alpha)

- Alpha is for opaque 0.0 to 1.0;

- 1.0 is max.

Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
        background-image: url("../Images/shoe.jpg");
      }
      div {
        border:2px solid black;
        background-color:rgba(255,0,0,0.5);
        width: 300px;
        height: 300px;
        margin: auto;
      }
    </style>
  </head>
  <body>
    <div>
      Box
    </div>
```

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

CSS Gradients

- Gradients allow multiple colors and their transitions.
- Gradients can be
    - Linear Gradients
        - Direction left, right, up and down.
    - Radial Gradients
        - From center
- Gradients are applied to any element as Image not as color.

Linear Gradients:

- It defines colors for various directions left, right, up and down.
- You can configure by using the method "linear-gradient()"

Syntax:

background-image: linear-gradient(color1, color2,..);

Ex:

```
<!DOCTYPE html>

<html>

  <head>

    <style>
```

```
        div {

            border:2px solid black;

            background-color:red;

            background-image: linear-gradient(red, yellow,
green);

            width: 400px;

            height: 200px;

            margin: auto;

          }

        </style>

      </head>

      <body>

        <div>

            Box

        </div>

      </body>

  </html>
```

- **Gradient uses various directions**
  - to right
  - to bottom
  - to left
  - to top

- to bottom left
- to bottom right
- to top right
- to top left

Ex:

```html
<!DOCTYPE html>
<html>
  <head>
    <style>


      div {
        border:2px solid black;
        background-image: linear-gradient( to top left, red, yellow, green);
        width: 400px;
        height: 200px;
        margin: auto;
      }
    </style>
  </head>
  <body>
    <div>
      Box
```

```
        </div>

    </body>

</html>
```

- **Gradient color can be defined by using angle.**
- Angle is defined in "deg".
  Syntax:
  background-image: linear-gradient(60deg, red, yellow);

Ex:

```
<!DOCTYPE html>

<html>

    <head>

        <style>


            div {

                border:2px solid black;

                background-image: linear-gradient( -60deg, red,
yellow, green);

                width: 400px;

                height: 200px;

                margin: auto;

            }

        </style>

    </head>
```

```
<body>

  <div>

    Box

  </div>

</body>

</html>
```

- **Gradient can be transparent**
  You have to define color using "rgba()"

Ex:

```
<!DOCTYPE html>

<html>

  <head>

    <style>


      div {

        border:2px solid black;

        background-image: linear-gradient( -60deg, red,
yellow, rgba(0,255,0,0.3));

        width: 400px;

        height: 200px;

        margin: auto;

      }
```

```
        </style>

    </head>

    <body>

        <div>

            Box

        </div>

    </body>

</html>
```

- **Gradient can repeat**
  You can use the method "repeating-linear-gradient(red, yellow 10%, green 20%)"

Ex:

```
<!DOCTYPE html>

<html>

  <head>

    <style>


        div {

            border:2px solid black;

            background-image: repeating-linear-gradient(90deg,
red, yellow 10%, green 20%);

            width: 400px;

            height: 200px;
```

```
        margin: auto;

      }

    </style>

  </head>

  <body>

    <div>

       Box

    </div>

  </body>

</html>
```

Radial Gradient

- Set effects towards center.

Syntax:

background-image: radial-gradient(red, yellow, green)

- Radial gradients will have shape like circle, diamond.

Syntax:

background-image: radial-gradient(circle, red, yellow, green)

- You can repeat radial gradient.
  "repeating-radial-gradient()"

Ex:

<!DOCTYPE html>

```html
<html>
  <head>
    <style>

        div {
            border:2px solid black;
            background-image: repeating-radial-gradient(red,
yellow 10%, green 20%);
            width: 400px;
            height: 200px;
            margin: auto;
          }
    </style>
  </head>
  <body>
    <div>
      Box
    </div>
  </body>
</html>
```

CSS Units

- Units define size and position

- You can configure size with height and width.
- You can configure position with x-axis, y-axis and z-axis.
- The CSS units are categorized into 2 groups
    - Absolute Length Units
    - Relative Length Units

Absolute Length Units:

- They are not relative to anything else then known as absolute length units.
- These units are not affected by other elements.

Unit	Name	Equivalent to
cm	Centimetres	1cm = 96px/2.54 = 37px
mm	Millimetres	1mm = 1/10th of 1 cm
Q	Quarter Millimetres	1Q = 1/40th of 1 cm
in	Inches	1in = 2.54cm = 96px
pc	Picas	1pc = 1/6th of 1in
pt	Point	1pt = 1/72th of 1in
px	Pixels	1px = 1/96th of 1in

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      #p1{
        font-size: 1cm;
      }
```

```
    #p2 {
        font-size: 37px;
    }

    </style>
  </head>
  <body>
    <div id="p1">
      Para-1
    </div>
    <div id="p2">
      Para-2
    </div>
  </body>
</html>
```

Relative Length Units:

- These are related to other contents in page.
- The size of any element can be determined based on its parent, child or adjacent.
- The advantage is the element size and position will changed when parent is changed.

Unit	Relative To

em	It uses the size of parent an applies to child.
	Ex:
| | ```html
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
        font-size: 20px;
      }
      #p1{
        font-size: 2em;
      }
      #p2 {
        font-size: 20px;
      }
    </style>
  </head>
  <body>
    <div id="p1">
      Para-1
    </div>
    <div id="p2">
      Para-2
    </div>
  </body>
</html>
``` |
ex	X- height of elements font width.
ch	Defined for width, whit regard to the root element.
rem	Font size to the root element size.

	Ex:
	``html
	<!DOCTYPE html>
	<html>
	  <head>
	    <style>
	     body{
	        font-size: 30px;
	      }
	       .effects{
	        font-size: 2em;
	      }
	       .effectsInner {
	        font-size: 1rem;
	      }
	    </style>
	  </head>
	  <body>
	    Amazon
	    <ul class="effects">
	      - Item-1
	        <ol class="effectsInner">
	           - Child-1
	           - Child-2
	
	      - Item-2
	      - Item-3
	
	  </body>
	</html>
	``

ln	Line height of the element.

vw	1% of the Viewports width.
vh	1% of the viewport's height.
vmin	1% of the viewport's smaller dimension.
vmax	1% of the viewport's larger dimension.

Cascading Rules

- **If a set of effects are re-defined for same element with same type of selector then according to CSS rule the last set of effects are applied to element.**
  Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      h2 {
        color:red;
      }
      h2{
        color:blue;
      }
    </style>
  </head>
  <body>
    <h2>Amazon Shopping</h2>
  </body>
</html>
```

- **If element have to choose between type selector and class selector then it will always choose the "class selector".**
  Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      .heading{
        color:blue;
      }
      h2 {
        color:red;
      }

    </style>
  </head>
  <body>
    <h2 class="heading">Amazon Shopping</h2>
  </body>
</html>
```

- **If element is configured with both ID and Class selector then always ID selector related effects are applied.**
  Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      .heading{
```

```css
        color:blue;
      }
      #head{
        color:green;
      }
      h2 {
        color:red;
      }

    </style>
  </head>
  <body>
    <h2 class="heading" id="head">Amazon
Shopping</h2>
  </body>
</html>
```

- **If different style attributes are defined in ID, class and Type selectors and applied to any specific element. Then all styles are applied to element. Only same name style attributes are overridden.**
  Ex:

```html
<!DOCTYPE html>
<html>
  <head>
    <style>
     #head {
        color:green;
        box-shadow: 2px 3px 4px red;
        background-color: yellow;
```

```
        }
        .heading {
            color:blue;
            text-align: center;
        }
        h2 {
            color:red;
            border:2px solid red;
        }

    </style>
  </head>
  <body>
    <h2 class="heading" id="head">Amazon
Shopping</h2>
  </body>
</html>
```

1st Priority ID

2nd Priority Class

3rd Type

Inheritance in CSS

- Inheritance is one of the key features of CSS.
- It allows extensibility, without rewriting we can re-use.
- CSS provides four special universal property values for controlling inheritance.
- Every CSS property will accept these values

inherit	It adopts the parent effects.
initial	It defines the default style.

unset	It removes the effects and adopt the default
revert	It swaps between parent and child effects. [Not supported for all browsers]

Ex:

```
<!DOCTYPE html>

<html>

  <head>

    <style>

      li {

        color:red;

      }

      .para2 {

        color: initial;

      }

      .para3{

        color:unset;

      }

      .para1 span {

        color: inherit;

      }
```

```
      </style>
    </head>
    <body>
      <ol>
        <li class="para1"><span>Para-1</span></li>
        <li class="para2"><span>Para-2</span></li>
        <li class="para3"><span>Para-3</span></li>
      </ol>
    </body>
</html>
```

- You can define "all" as CSS property to apply all effects of parent.

Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      p {
        background-color: red;
        color:white;
        border:2px solid black;
      }
```

```
        .effects {
            all:unset;
        }
    </style>
</head>
<body>
    <p>Para-1</p>
    <p class="effects">Para-2</p>
</body>
</html>
```

CSS Box Model

- Everything in CSS has a box around it.
- Box model is important for designing layouts.
- Box model comprises of

Content Box	It is the area where you keep content. It can be defined with height and width.
Padding Box	It is space around content. It is controlled by using padding.
Border Box	It is box around the content or padding.
Margin Box	It is the outmost layer that wraps around border box. Out side the border box space is called margin.

Ex:

```
<!DOCTYPE html>
<html>
   <head>
      <style>
        body {
           background-color: gray;
        }
        .box{
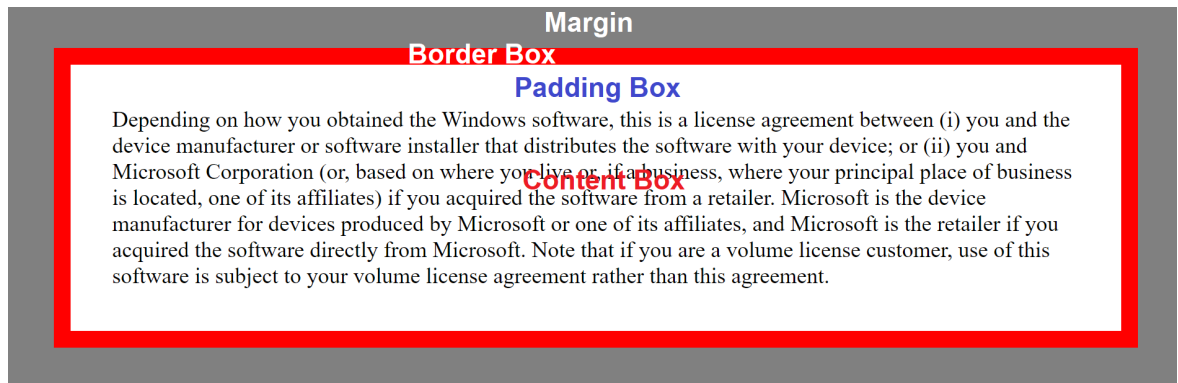           background-color: white;
           padding: 30px;
           border:red 12px solid;
           margin: 30px;
        }
      </style>
   </head>
   <body>
      <div class="container">
         <div class="box">
            Depending on how you obtained the Windows
software, this is a license agreement between (i) you
and the device manufacturer or software installer that
distributes the software with your device; or (ii) you and
Microsoft Corporation (or, based on where you live or, if
a business, where your principal place of business is
located, one of its affiliates) if you acquired the software
from a retailer. Microsoft is the device manufacturer for
devices produced by Microsoft or one of its affiliates,
and Microsoft is the retailer if you acquired the software
directly from Microsoft. Note that if you are a volume
```

license customer, use of this software is subject to your volume license agreement rather than this agreement.

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

Margin

Border Box

Padding Box

Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or if a business, where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices produced by Microsoft or one of its affiliates, and Microsoft is the retailer if you acquired the software directly from Microsoft. Note that if you are a volume license customer, use of this software is subject to your volume license agreement rather than this agreement.

Content Box

Set Margins, Padding and Border

Margin

- It specifies the space around border.
- You can define margin by using following properties
    - margin [short hand for all directions]
    - margin-top
    - margin-bottom
    - margin-left
    - margin-right

Ex:

<!DOCTYPE html>

<html>

  <head>

```
    <style>
      body {
        background-color: gray;
      }
      .box{
        background-color: white;
        padding: 30px;
        border:red 12px solid;
        margin-left: 10px;
        margin-top: 50px;
        margin-right: 10px;
      }
    </style>
  </head>
  <body>
    <div class="container">
      <div class="box">
```

Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or, if a business, where your principal place of business is located,

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```
        </div>

      </div>

    </body>

</html>
```

Padding

- it defines space around the content.
- It uses the properties
  - ○ padding [short hand for all directions]
  - ○ padding-left
  - ○ padding-right
  - ○ padding-top
  - ○ padding-bottom

Border

- The border is around the content or padding.
- CSS border can be defined with several effects
  - ○ **border-color**
    - ▪ border-top-color
    - ▪ border-bottom-color
    - ▪ border-left-color

- border-right-color
- **border-style: Solid, dotted, dashed, groove etc.**
  - border-left-style
  - border-right-style
  - border-top-style
  - border-bottom-style
- **border-width**
  - border-top-width
  - border-bottom-width
  - border-left-width
  - border-right-width
- **border-radius**
  - border-top-left-radius
  - border-top-right-radius
  - border-bottom-right-radius
  - border-bottom-left-radius
- **border-image**
  - border-image-outset
  - border-image-repeat
  - border-image-slice
  - border-image-source
  - border-image-width

Ex:

<!DOCTYPE html>

<html>

  <head>

    <style>

```css
body {
    background-color: gray;
}
.box{
    background-color: white;


    margin-left: 10px;
    margin-top: 50px;
    margin-right: 10px;
    text-align: justify;
    padding-top: 20px;
    padding-left: 20px;
    padding-bottom: 10px;
    padding-right: 10px;

    border-width: 10px;
    border-left-style: dotted;
    border-right-style: double;
    border-top-style: double;
    border-bottom-style: dotted;
    border-left-color: red;
```

```
            border-right-color: red;

        }

    </style>

  </head>

  <body>

    <div class="container">

      <div class="box">

            Depending on how you obtained the Windows
software, this is a license agreement between (i) you and the
device manufacturer or software installer that distributes the
software with your device; or (ii) you and Microsoft
Corporation (or, based on where you live or, if a business,
where your principal place of business is located, one of its
affiliates) if you acquired the software from a retailer.
Microsoft is the device manufacturer for devices produced by
Microsoft or one of its affiliates, and Microsoft is the retailer
if you acquired the software directly from Microsoft. Note
that if you are a volume license customer, use of this
software is subject to your volume license agreement rather
than this agreement.

        </div>

      </div>

    </body>

</html>
```

Border Images

- border-image-outset: distance with an element from border box.
- border-image-source: The URL
- border-image-repeat: How to repeat – stretch, repeat, round, space, round stretch
- border-image-width: border image width.
- Border-image-slice: It is used to divide the image.

Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      .box {
          border: 20px solid transparent;
          text-align: justify;
          padding: 10px;
          border-image: url("../Images/border.png") 70 round;
          border-image-outset: 2px;
       }
    </style>
  </head>
  <body>
    <div class="container">
```

```
            <div class="box">

            Depending on how you obtained the Windows
software, this is a license agreement between (i) you and the
device manufacturer or software installer that distributes the
software with your device; or (ii) you and Microsoft
Corporation (or, based on where you live or, if a business,
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if you acquired the software directly from Microsoft. Note
that if you are a volume license customer, use of this
software is subject to your volume license agreement rather
than this agreement.

            </div>

        </div>

    </body>

</html>
```

CSS Background

- background-color
- background-image
- background-repeat
- background-size
- background-position
- background-attachment

- background-clip
- background [shorthand]

Ex:

```html
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
          background-image: url("../Images/shoe.jpg");

          background-repeat: no-repeat;

          background-size: 200px 200px;

          background-position: center center;

          background-attachment: fixed;

      }
    </style>
  </head>
  <body>
    <div class="container">
      <div class="box">

            Depending on how you obtained the Windows
software, this is a license agreement between (i) you and the
device manufacturer or software installer that distributes the
software with your device; or (ii) you and Microsoft
```

Corporation (or, based on where you live or, if a business, where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices produced by Microsoft or one of its affiliates, and Microsoft is the retailer if you acquired the software directly from Microsoft. Note that if you are a volume license customer, use of this software is subject to your volume license agreement rather than this agreement.

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that if you are a volume license customer, use of this software is subject to your volume license agreement rather than this agreement.

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

Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <style>
     .box{
        background-color: thistle;
        padding: 30px;
        border:10px solid black;
        background-clip: content-box;
      }
    </style>
  </head>
  <body>
```

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

Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or, if a business, where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices produced by Microsoft or one of its affiliates, and Microsoft is the retailer if you acquired the software directly from Microsoft. Note that if you are a volume license customer, use of this software is subject to your volume license agreement rather than this agreement.

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software is subject to your volume license agreement rather than this agreement.

　　　　</div>

　　　</div>

　　</body>

</html>

Ex: **Multiple Backgrounds**

<!DOCTYPE html>

<html>

　　<head>

　　　<style>

　　　　body {

　　　　　background-image: url("../Images/box1.png"), url("../Images/box2.png");

　　　　　background-repeat: no-repeat, repeat;

　　　　　background-position: center center ;

　　　　　background-size: 100px 100px;

　　　　}

　　　</style>

　　</head>

　　<body>

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

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software is subject to your volume license agreement rather than this agreement.

```
        </div>

    </div>

  </body>

</html>
```

CSS Display

- It is used to configure the display style of element.
- It is defined by using "display" attribute.
- The values for display are
  - inline
  - block
  - grid
  - flex
  - table
  - none
  - initial
  - inherit

Ex: Inline display

```
<!DOCTYPE html>

<html>

  <head>

    <style>

     form div {

        display: inline;
```

```
      }
      ol li {
          display: inline;
          border:2px solid black;
          width: 200px;
          padding: 5px;
      }
    </style>
  </head>
  <body>
    <ol>
      <li>Electronics</li>
      <li>Footwear</li>
      <li>Fashion</li>
    </ol>
    <form>
      <div>
        <input placeholder="User Name" type="text">
      </div>
      <div>
        <input type="password" placeholder="Password">
      </div>
```

```
    <div>

      <button>Login</button>

    </div>

  </form>

</body>

</html>
```

Block Display – Keeps the content line by line.

Display Grid

- Grid Display is used to arrange content into rows and columns.
- It requires additional attributes
  - grid-template-columns
    - Number of columns and width
    - Width can be defined in pixels or fractions "fr"
    - Page supports 12 fr of columns.
  - grid-gap
    - Space between columns
  - grid-column
    - In which column you want the content.
  - grid-row
    - In which row your want the content.

Ex:

```
<!DOCTYPE html>

<html>

 <head>
```

```html
<title>Grid Layout</title>
<link rel="stylesheet" href="../Fonts/css/all.css">
<style>
    .container {
        display: grid;
        grid-template-columns: 2fr 10fr;
        grid-gap: 30px;
    }
    header, footer {
        background-color: tomato;
        color:white;
        text-align: center;
        border-radius: 10px;
        padding: 10px;
    }
    header {
        grid-row: 1;
        grid-column: 2/2;
    }
    footer {
        grid-row: 3;
        grid-column: 2/2;
```

```
        }
        article {
            grid-column: 2/2;
            grid-row: 2;
        }
        aside {
            grid-row: 2;
            grid-column: 1;
            border-right: 2px dotted tomato;
        }
        .logo {
            grid-row: 1;
            grid-column: 1;
            border:2px solid red;
            border-radius: 20px;
            padding: 10px;
        }
    </style>
</head>
<body>
  <div class="container">
    <header>
```


Amazon Shopping

</header>

<article>

<h2>Amazon Home</h2>

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if you acquired the software directly from Microsoft. Note that if you are a volume license customer, use of this software is subject to your volume license agreement rather than this agreement.</p>

```html
    </article>
    <aside>
      <h2>Shopping Categories</h2>
      <ul>
        <li><span class="fa fa-tv"></span> Electronics</li>
        <li><span class="fa fa-shoe-prints"></span> Footwear</li>
        <li><span class="fa fa-tshirt"></span> Fashion</li>
      </ul>
    </aside>
    <footer>
      &copy; copyright 2020 Amazon
    </footer>
    <div class="logo">
      logo..
    </div>
  </div>
 </body>
</html>
```

Display Flex Box

(Responsive Web Design)

- It is used to create layouts with flexible display style, so that page can fit onto any device.
- The properties required
    - display
    - flex-direction: column, column-reverse, row-reverse
    - justify-content
    - align-items
    - flex-wrap
    - flex-flow
    - order
    - align-self

Ex: Flex-Direction

```
<!DOCTYPE html>

<html>

  <head>

    <title>Flex</title>

    <style>

      .container{

        display: flex;

        flex-direction: row-reverse;
```

```html
        }
      </style>
    </head>
    <body>
      <div class="container">
        <div>
          <img src="../Images/speaker.jpg" width="100" height="100">
            Pic-1
        </div>
        <div>
          <img src="../Images/shoe.jpg" width="100" height="100">
            Pic-2
        </div>
        <div>
          <img src="../Images/shoe1.jpg" width="100" height="100">
            Pic-3
        </div>
        <div>
          <img src="../Images/shirt.jpg" width="100" height="100">
```

```
          Pic-4

      </div>

      <div>

          <img src="../Images/jeans.jpg" width="100"
height="100">

          Pic-5

      </div>

      <div>

          <img src="../Images/mobile.jpeg" width="100"
height="100">

          Pic-6

      </div>

    </div>

  </body>

</html>
```

Ex: Display Content Exactly center to page

```
<!DOCTYPE html>

<html>

  <head>

    <title>Center</title>

    <style>

      body{
```

```
            background-image: url("../Images/shoe.jpg");
        }
        .container {
            display:flex;
            justify-content: center;
            align-items: center;
            height: 500px;
        }
        .container > div{
            width: 300px;
            border:2px solid darkcyan;
            border-radius: 20px;
            padding: 30px;
            background-color:rgb(250, 242, 133,0.4);
        }
    </style>
</head>
<body>
    <div class="container">
        <div>
            <h3>User Login</h3>
            <dl>
```

```
                <dt>User Name</dt>
                <dd><input type="text"></dd>
                <dt>Password</dt>
                <dd><input type="password"></dd>
            </dl>
            <button>Login</button>
        </div>
    </div>
  </body>
</html>
```

Display can be used to hide any element from DOM

Syntax:

  display:none

CSS Positions

- Generally, elements are placed according to the document layout flow.
- Position allows to make element behave differently and take them out of the document flow.
- CSS positions are defined by using "position" attribute.

Static Position:

- It is according to the normal flow of document.

- It is used as default for every element.
- It will not have any effect on the element position.
- Static position is not affected by using top, left, right, bottom and z-index.

EX:

P {

  position:static;

 }

Ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Positions</title>
    <style>
      p {
        position:static;
        right: 10px;
      }
    </style>
  </head>
  <body>
    <p>
      Some Text
```

```
            </p>

    </body>

</html>
```

Sticky Position

- Element is positions according to the normal flow of document.
- It can make content sticky after scrolling to specified margin.
- It requires margin to define by using left, right, top, bottom attributes.

Ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>Positions</title>

        <style>

            h2 {

                position:sticky;

                top:0px;

                background-color: yellow;

            }

        </style>

    </head>
```

<body>

    <div>

        <p>Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or, if a business, where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices produced by Microsoft or one of its affiliates, and Microsoft is the retailer if you acquired the software directly from Microsoft. Note that if you are a volume license customer, use of this software is subject to your volume license agreement rather than this agreement.</p>

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HTML Tutorial

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license customer, use of this software is subject to your volume license agreement rather than this agreement.</p>

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license customer, use of this software is subject to your volume license agreement rather than this agreement.</p>

```
    </div>

  </body>

</html>
```

Ex: **Accordion Style**

```
<!DOCTYPE html>

<html>

  <head>

    <title>Positions</title>

    <style>

      dt {

        background-color: black;

        color:white;

        padding:10px;

        top:0px;

        left:0px;

        margin:1em 0;

        position:sticky;

      }
```

```html
        </style>
    </head>
    <body>
        <h2>Web Technologies</h2>
        <dl>
            <dt>HTML</dt>
            <dd>Normal Elements</dd>
            <dd>Void Elements</dd>
            <dd>RC Data Elements</dd>
            <dd>Raw Text Elements</dd>
            <dd>Foreign Elements</dd>
            <dd>Normal Elements</dd>
            <dd>Void Elements</dd>
            <dd>RC Data Elements</dd>
            <dd>Raw Text Elements</dd>
            <dd>Foreign Elements</dd>
            <dd>Normal Elements</dd>
            <dd>Void Elements</dd>
            <dd>RC Data Elements</dd>
            <dd>Raw Text Elements</dd>
            <dd>Foreign Elements</dd>
            <dd>Normal Elements</dd>
```

```html
<dd>Void Elements</dd>

<dd>RC Data Elements</dd>

<dd>Raw Text Elements</dd>

<dd>Foreign Elements</dd>

<dt>JavaScript</dt>

<dd>Variables</dd>

<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dd>Variables</dd>

<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dd>Variables</dd>

<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dd>Variables</dd>

<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dd>Variables</dd>
```

```html
<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dt>CSS</dt>

<dd>Units</dd>

<dd>Colors</dd>

<dd>Display</dd>

<dd>Borders</dd>

<dd>Units</dd>

<dd>Colors</dd>

<dd>Display</dd>

<dd>Borders</dd>

<dd>Units</dd>

<dd>Colors</dd>

<dd>Display</dd>

<dd>Borders</dd>

<dd>Units</dd>

<dd>Colors</dd>

<dd>Display</dd>

<dd>Borders</dd>

<dd>Units</dd>

<dd>Colors</dd>
```

```
            <dd>Display</dd>

            <dd>Borders</dd>

        </dl>

      </body>

</html>
```

Fixed Position:

- The element is removed from normal document flow.
- Element is no longer a part of document flow. DOM
- Its position is fixed with left, right, top, bottom.
- It will not move from specified position.
- Its position is fixed on page.

Ex:

```
<!DOCTYPE html>

<html>

  <head>

    <title>Positions</title>

    <style>

      dt {

        background-color: black;

        color:white;

        padding:10px;

        top:0px;

        left:0px;
```

```
        margin:1em 0;

        position:sticky;

      }

      #logo {

        position:fixed;

        bottom:20px;

        right:20px;

      }

    </style>

</head>

<body>

  <h2>Web Technologies</h2>

  <dl>

    <dt>HTML</dt>

    <dd>Normal Elements</dd>

    <dd>Void Elements</dd>

    <dd>RC Data Elements</dd>

    <dd>Raw Text Elements</dd>

    <dd>Foreign Elements</dd>

    <dd>Normal Elements</dd>

    <dd>Void Elements</dd>

    <dd>RC Data Elements</dd>
```

```html
<dd>Raw Text Elements</dd>
<dd>Foreign Elements</dd>
<dd>Normal Elements</dd>
<dd>Void Elements</dd>
<dd>RC Data Elements</dd>
<dd>Raw Text Elements</dd>
<dd>Foreign Elements</dd>
<dd>Normal Elements</dd>
<dd>Void Elements</dd>
<dd>RC Data Elements</dd>
<dd>Raw Text Elements</dd>
<dd>Foreign Elements</dd>
<dt>JavaScript</dt>
<dd>Variables</dd>
<dd>Data Types</dd>
<dd>Operators</dd>
<dd>Statements</dd>
<dd>Variables</dd>
<dd>Data Types</dd>
<dd>Operators</dd>
<dd>Statements</dd>
<dd>Variables</dd>
```

```html
<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dd>Variables</dd>

<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dd>Variables</dd>

<dd>Data Types</dd>

<dd>Operators</dd>

<dd>Statements</dd>

<dt>CSS</dt>

<dd>Units</dd>

<dd>Colors</dd>

<dd>Display</dd>

<dd>Borders</dd>

<dd>Units</dd>

<dd>Colors</dd>

<dd>Display</dd>

<dd>Borders</dd>

<dd>Units</dd>

<dd>Colors</dd>
```

```
            <dd>Display</dd>

            <dd>Borders</dd>

            <dd>Units</dd>

            <dd>Colors</dd>

            <dd>Display</dd>

            <dd>Borders</dd>

            <dd>Units</dd>

            <dd>Colors</dd>

            <dd>Display</dd>

            <dd>Borders</dd>

        </dl>

        <div id="logo">

            <img src="../Images/shoe.jpg" width="30"
height="30">

        </div>

    </body>

</html>
```

Relative Position

- It is also according to normal flow.
- Its position will be relative to parent or adjacent
  element.

```
<!DOCTYPE html>

<html>
```

```html
<head>
  <title>Positions</title>
  <style>
    .box {
      width: 300px;
      height: 100px;
      border:2px solid black;
      margin-left: 100px;
    }
    .box img {
      position: relative;
      margin-left: 20px;
    }
  </style>
</head>
<body>
  <div class="box">
    <img src="../Images/shoe.jpg" width="100" height="100">
  </div>
</body>
</html>
```

Position Absolute:

- It removes from DOM flow.
- But keeps at its specified position.
- It allows to change position using left, right, top, bottom.
- But it is not fixed at that position.

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Positions</title>
    <style>
     .box {
        width: 300px;
        height: 100px;
        border:2px solid black;
        margin-left: 100px;
      }
     .box img {
       position: absolute;
       right: 20px;
      }
    </style>
  </head>
```

```
<body>

   <div class="box">

      <img src="../Images/shoe.jpg" width="100" height="100">

   </div>

   <p>Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or, if a business, where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices produced by Microsoft or one of its affiliates, and Microsoft is the retailer if you acquired the software directly from Microsoft. Note that if you are a volume license customer, use of this software is subject to your volume license agreement rather than this agreement.

   </p>

   <p>Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or, if a business, where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices
```

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

Multiple Columns

- CSS provides attributes to organize content into columns without grid.
  - column-count
  - column-width
  - column-gap
  - column-rule
  - column-span

Ex:

```
<!DOCTYPE html>

<html>
```

```
<head>
  <title>News</title>
  <style>
    header {
      text-align: center;
    }
    .container {
      column-count: 5;
      text-align: justify;
      column-width: 50px;
      column-gap: 20px;
      column-rule: dotted;
    }
    #banner {
      column-span: all;
      text-align: center;
      background-color: lightgray;
    }
    footer {
      background-color: black;
      color:white;
      column-count: 3;
```

```
        margin-top: 20px;

      }

    </style>

  </head>

  <body>

    <header>

      <img src="../Images/newslogo.png">

    </header>

    <main>

      <div class="container">

        <h2>Latest News</h2>

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```

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        \<h2 id="banner">

          \<marquee scrollamount="10">

           Published from Delhi, Hyderabad, Mumbai, Chennai

          \</marquee>

        \</h2>

        <p>Depending on how you obtained the Windows software, this is a license agreement between (i) you and the device manufacturer or software installer that distributes the software with your device; or (ii) you and Microsoft Corporation (or, based on where you live or, if a business, where your principal place of business is located, one of its affiliates) if you acquired the software from a retailer. Microsoft is the device manufacturer for devices produced by Microsoft or one of its affiliates, and Microsoft is the retailer if you acquired the software directly from Microsoft. Note

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                              </div>

                        </main>

                        <footer>

                              <div>

                                        <h3>Local News</h3>

                                                AP News

                                                Delhi News

                                                TS News

```html
        <li>Chennai News</li>
      </ul>
    </div>
    <div>
      <h3>Sports News</h3>
      <ul>
        <li>Soccer</li>
        <li>Cricket</li>
        <li>Hockey</li>
      </ul>
    </div>
    <div>
      <h3>Movie News</h3>
      <ul>
        <li>Soccer</li>
        <li>Cricket</li>
        <li>Hockey</li>
      </ul>
    </div>
  </footer>
</body>
</html>
```

CSS Text Styling

- CSS provides several attributes for Text Styling

color	Defines foreground color.
font-family	It defines the font family name.
font-size	It defines font size.
font-weight	Defines normal, bold, lighter, bolder.
font-style	Defines Italic effects.
text-transform	Defines uppercase, lowercase, capitalize, full-width.

text-decoration	Underline, Overline, Line through
	You can also configure individually
	  - text-decoration-color
	  - text-decoration-style
	  - text-decoration-line

text-shadow	Defines shadow for text.
text-align	Left, center, right and justify.
line-height	Space between line.
letter-spacing	Space between letters.
word-spacing	Space between words.
font-variant	Caps, lowercase [Without changing the size]
text-indent	First line space.
text-overflow	Control the wrapping of text.
white-space	Controls the blank space.
text-orientation	Changes the orientation of text.

Ex:

<!DOCTYPE html>

```html
<html>
  <head>
    <title>Text Effects</title>
    <style>
      div {
        color:red;
        font-family: Arial;
        font-size: 4em;
        font-weight: bold;
        font-style: italic;
        text-transform: uppercase;
        text-decoration: underline;
        text-decoration-color: green;
        text-decoration-style: wavy;
        letter-spacing: 30px;
        word-spacing: 50px;
      }
    </style>
  </head>
  <body>
    <div>Sample Text</div>
  </body>
```

</html>

Ex: Text Shadow

- Shadow comprises of 4 units
    - Horizontal offset
    - Vertical offset
    - Blur radius
    - Color

Syntax:

text-shadow: hOffset vOffset blurRadius color;

```
<!DOCTYPE html>
<html>
  <head>
    <title>Text Effects</title>
    <style>
      div {
        font-size: 50px;
        font-weight: bold;
        text-shadow: 4px 2px 2px green;
      }
    </style>
  </head>
  <body>
    <div>Sample Text</div>
```

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

Ex: Transform and Variant

```
<h2 style="text-transform: uppercase;">Welcome to Style</h2>
 <h2 style="font-variant: small-caps;">Welcome to Style</h2>
```

Ex: Text Overflow

```
<!DOCTYPE html>
<html>
  <head>
    <title>Text Effects</title>
    <style>
      #p1 {
        width: 100px;
        border:2px solid;
        white-space: nowrap;
        overflow: hidden;
        text-overflow: ellipsis;
      }
    </style>
```

```
    </head>
    <body>
        <div>Sample Text</div>
        <h2 style="text-transform: uppercase;">Welcome to
Style</h2>
        <h2 style="font-variant: small-caps;">Welcome to
Style</h2>
        <div title="Welcome to CSS - Styles for HTML." id="p1">
            Welcome to CSS - Styles for HTML.
        </div>
    </body>
</html>
```

Dropcaps
```
  h2+p::first-letter{
        float: left;
        font-size: 50px;
        line-height: 1;
        font-weight: bold;
        margin-right: 4px;
      }
```