

* CSS *

* CSS * Stands for Cascading style sheets.

↳ It controls the presentation of the web pages.

↳ Its extension is .css

↳ Its frameworks are Bootstrap & Tailwind CSS

→ Advantages of CSS

↳ Pages load faster : You can write HTML tag & attribute just in one in CSS and can apply to all other occurrences.

→ So less code means faster website download times.

→ CSS works

↳ It has 3 main Rule or parts.

i) Selector : It defines which HTML elements will be CSS applied, like `<h1>` `<table>` any element.

ii) Property : - This helps developer to style the elements of HTML (eg: color, font-size, margin, padding).

iii) Value : The property you want to apply for the given HTML elements eg: Red, blue, 16px → It all apply on property.

* Types of CSS *

→ It's not we can say type it's a method, with that we can put CSS into HTML.

↳ There are 3 types.

i> Inline CSS

ii> Embedded CSS

iii> Internal CSS

i> Inline CSS : It is used to style single element using `<style>` attribute.

Syntax

```
<html>
```

```
<head>
```

```
</head>
```

```
<body>
```

```
<h1 style="color:red;"> This is inline  
in CSS <h1>
```

```
</body>
```

```
</html>
```

→ This is how we can give style, but this is not a appropriate thing to style.

→ If we style like this your code will become hectic to you to understand.

→ So usually people avoid mostly inline styling.

ii) Internal CSS

In this styling code is done in head part only.

Syntax

```
<html>
```

```
<head>
```

```
<style>
```

```
body {
```

```
  color: red; margin-left;
```

```
</style>
```

```
</head>
```

```
<body>
```

<h1> The internal style sheet is applied to the heading <h1>

```
</body>
```

```
</html>
```

iii) External CSS

In this we write a code in a different file and connect it with HTML in head by anchor tag `<link href = "/style.css">`

This type of format is mostly used because it helps coder to design properly.

Syntax

```
<html>
  <head>
    <link rel="stylesheet" type="text/css"
      href="styles.css">
  </head>
  <body>
    <p> This is External CSS example </p>
  </body>
</html>
```

→ difference CSS file

```
{
  color : navy;
  margin-left : 20px;
}
```

→ This is how you can link your file.

↳ Another way to link external file in HTML

```
<head>
```

```
  @import "URL";
```

```
</head>
```

This is used to import from online site

* CSS Selector *

↳ selectors are used to select the content on which we can perform styling.

↳ It is a set of CSS sets of rule.

↳ There are several selectors.

- 1) CSS Element Selector.
- 2) CSS Id Selector.
- 3) CSS class selector.
- 4) CSS universal selector.
- 5) CSS Group selector.
- 6) CSS Descendant selector.
- 7) CSS child selector or Direct child selector.

1) CSS Element Selector *

By Name only we can understand

that it uses elements tags to apply CSS.

→ with `<p>`, `<h1>`, `` and many more elements even body tags is also used in this selector.

↳ Syntax

`<p>` ^{HTML} This tag uses Element Selector `</p>`

CSS

PS

color: red;

background-color: ~~Brown~~ Yellow;

;

This is how we can apply Element

selector.

and if P is tag then more in HTML it will apply the CSS to all `<p>` tags.

3) CSS Class Selector * (.) dot

- It starts [name of class selector] - this is how we can apply CSS in class.
- In class we can apply CSS to one or more element at a same time.
- It provide you to use its for multiple time to avoid you to write the code 2 times.

Note class cannot be start with number.

→ Example

Syntax

<P> This Tag does not uses class selector </P>
<P class="sel"> This Tag uses class selector </P>
<P> This Tag does not uses class selector </P>
<P class="sel"> This Tag uses class selector </P>

In CSS file

• sel {

color : aqua;

background color: black;

}

The Result you will see that it will apply to p2.
<P> of line 2 & 4.

→ With this we can save code and space.

→ If you want to apply only one tag element.

then p, center {

}

| we can use this
to apply for only one element.

4) CSS Universal Selector (*) (*)

→ It uses (*) to select to apply CSS, In this it will apply CSS to all tags, elements present in the HTML file.

→ Example Syntax

<h2> This is Heading </h2>
<p> This style will applied to all tag and Heading </p>

<p> Me Too! </p>

<p> And me! </p>

```
*{  
  color: Red;  
  background: White;  
}
```

→ The Result you will see that the Red color is applied to whole text which are present in HTML.

→ white, white color makes whole background of your screen white.

→ diff btw Body Element Selector vs universal

→ If you uses Body tag to apply CSS. it will apply to whole content

→ But if we shall the containers, we have made with the help of dotted line

→ It will show how first it make line for HTML, then Body, then other element.

universal-
→ If you uses this it will apply CSS to all

→ But it will make one dotted line for Body & HTML tags only

→ It will not generate dotted line for other tags like heading & Paragraph.

5) Group Element Selector (1)

like (p, b)

→ It uses to select all the element which you have mention in CSS file, it will apply same style to every elements.

→ It is similar to elements only but we are giving more than one elements, that why we called it as a group selector.

→ group selector is separated by (,) symbol.

→ example

Syntax

<h1> Hello folks </h1>

<h2> Hello coders </h2>

<p> This 3 tags uses group selector </p>

in CSS file

h1, h2, p {

text-align: center;

color: red;

background-color: beige;

}

→ with this the Result you will see that it apply CSS to all elements

6) Descendent Selector * (is a § 4)

→ This is used to specify that I have to you li element list from in that it will apply style (a) only.

→ which are present in list not outside the li <a> tags

→ Example:

Syntax

 <a> link - 1

" " " - 2 " "

<" "> Plain text - 1

 " " " - 2

<a> out of list Anchor tag - link - 3

In CSS

li a§

color: white;

background: black;

}

In Result you can see that only Link-1, Link-2 got CSS applied while link-3 anchor tag did not get applied this is how descendent selectors work.

→

7) Direct Child * (>)

- > 7) Direct Child * (>)
- > we use (>) symbol to use direct child selector.
- > It will apply only direct parent > child not
- > grand parent > parent > child.
 <p> ~~a~~<i>
- > It will apply like b > i or p > b
- > example:

Syntax

$\angle \phi$

< b > This font is Bold in nature &
< i > while this font is italic in nature &

$\langle P \rangle$ while this found in state

$\angle (b)$

$L P >$

gn c85 file.

$$b > i^{\circ} \xi$$

1
color : white;

background-color: Black;

3

But if you use P i f }

3

It will not work.

* Styling in CSS *

- In this font property is used to control the look of the texts.
- By the use of CSS font property you can change the text size, color, style and many more.

- | | |
|----------------------|----------------------|
| i) CSS Font Color. | iv) CSS Font Style. |
| ii) CSS Font Family. | v) CSS Font Variant. |
| iii) CSS font size. | vi) CSS Font weight. |

i) CSS Font Color :- It is used to change the color of the text, you can color by three types a) color name b) Hexadecimal value c) RGB.

Syntax

```
<html>
  <head>
  </head>
  <body>
    <h1> This is Heading 1 </h1>
    <h2> This is Heading 2 </h2>
    <p> This is a paragraph. </p>
  </body>
</html>
```

gn CSS:

```
h1 { color : red; }
h2 { color : #0000A1; }
p { color : rgb(0, 220, 96); }
```


* CSS Text *

i) Set the color It will color your text.

`<P style="color: red;" >` This text is in Red `</P>`

ii) Set the Direction It will start from left to right.

`<P style="direction: rtl;" >` This text is from right to left `</P>`

`<P style="direction: ltr;" >` This text is from left to right `</P>`

iii) Set the space between characters

`<P style="letter-spacing: 5px;" >` This text is having space between letters `</P>`

iv) Set the space between words

`<P style="word-spacing: 5px;" >` This text is having space between words. `</P>`

v) Set the text indent

`<P style="text-indent: 1cm;" >` This text will have first by 1cm and this line will remain at its actual position this done by CSS text-indent property. `</P>`

vi) Set the Text Alignment It will text your from left, right center and justify.

<P style="text-align: right;"> Text Right </P>

<P style="text-align: center;"> Text Center </P>

<P style="text-align: left;"> Text left </P>

vii) Decorating the Text

<P style="text-decoration: underline;"> This is underline </P>

<P " " " : linethrough;"> This striked through </P>

<P " " " " : overline;"> This will above line </P>

viii) Set the text Cases

<P style="text-transform: capitalize;"> This text is Capitalize </P>

★ viii) Set the space between text.

<P style="white-space: pre;"> Lorem 50 </P>

ix) Set the Text Shadow

<P style="text-shadow: 4px 4px 8px blue;">
Blue Text in Zain </P>

* CSS Background *

- i) Background - Color
- ii) Background - Image
- iii) Background - repeat

- iv) Background - attachment
- v) Background - position.

i) Background - Color *

It is used to specify the background color of the element.

```
<body>
```

```
<h2> My First CSS Page </h2>
```

```
<p> This is an example of CSS Background </p>
```

```
</body>
```

In CSS

```
h2, p {
```

```
background-color: red;
```

```
}
```

ii) Background - Image *

It is used to Add text upon image:

```
<p style="background-image: url (/image / Path);  
color: red; height: 630px; width: 500px;  
font-size: 20px;" > This Text Element  
Set background image. </p>
```

3) CSS Background-repeat * It is used to Add Image in Background and repeat it multiple time, from Horizontal & vertical.

<h2> Hello, folks... </h2>

4) CSS Background - Attachment *

4) CSS Background - Attachment *

It is used to Add photo in background. And fixed image is fixed, while text will scroll not image.

image: url('image.jpg')

$\angle P$ This is a fixed image $\angle P$
 $\angle P$ " " " $\angle P$

9. C.S.

body {
background: white url ("image path")
background-repeat: no-repeat;
background-attachment: fixed;
margin-left: 200px;

23.

* Links in CSS *

Links are used to link two pages. And we can add properties in CSS.

→ There are 4 types

- i) `a:link` → Normal link
- ii) `a:visited` → visited link

- iii) `a: hover` → when the user moves the mouse over the link
- iv) `a: active` → link is clickable.

Note: i) `a: hover` always comes after `a:link` & `a:visited`.
ii) `a: active` always comes after `a: hover`.

Syntax

`<body>`

`<p>`

Click Here`</p>`

`</body>`

In CSS

- i) `a:link` { unvisited link
color: red;
}

- ii) visited link.
`a:visited` {
color: green;
}

- iii) mouse over link
`a: hover` {
color: hotpink;
}

- iv) selected link.
`a: active` {
color: blue;
}

* Text Decoration *

```
a: link {  
    text-decoration: underline;  
    none;  
}
```

* Background color *

```
a: link {  
    background-color: yellow;  
}
```

* Lists in CSS *

→ CSS list-style-type property is used for display items of ordered & unordered list.

→ Unordered list

```
<ul style="list-style-type: disc">  
" " " " ; circle>  
" " " " ; square>  
" " " " ; none>
```


Ordered list

```

<ol style="list-style-type: decimal;">
  "      "      "      "      : upper-alpha;">
  "      "      "      "      : lower-alpha;">
  "      "      "      "      : upper-roman;">
  "      "      "      "      : lower-roman;">

```

* Image in list *

we can put images rather than items numbers or in alphabetic characters.

```

-> <ol style="list-style-type: url('imagepath');">

```

* Position in list *

```

<ol style="list-style-type: inside;">
  "      "      "      "      : outside;">

```

* Short hand property *

```

ul { list-style-type: square inside url('imagepath'); }

```

```

<ul>
  <li>
    </li>
  </ul>

```

* Styling List with colors *

```
<ul>
  <li> coffee </li>
  <li> Tea </li>
  <li> Coca cola </li>
  <li> Fanta </li>
</ul>
```

```
<ol>
  <li> Coffee </li>
  <li> Tea </li>
  <li> Coca cola </li>
  <li> Fanta </li>
</ol>
```

Go CSS

```
ol {
  Background: # FF9999;
  padding: 20px;
}
```

```
ul {
  Background: # 3399FF;
  padding: 20px;
}
```

```
ol li {
  Background: # FFE5E5;
  padding: 5px;
  margin-left: 35px;
}
```

```
ul li {
  Background: # CCE5FF;
  margin: 5px;
}
```


* CSS Display *

It is property use for how to display list of item.

* Block-level Elements * → It will take entire width of your screen.
It always starts on a new line and takes up the full width available. → BLOCK means it starts from elements not in a line

<p> Display links as block element </p>

 HTML

" " " " " " > CSS

" " " " " " > Javascript

on CSS

{

display: block;

}

* Inline Elements * It will not take extra height & width because it works in inline.

It start from not a new line in an same line → Inline means Attribute.

 <li href="image path"> HTML

on CSS

{

display: inline

}

* Inline-Block Style *

- It is used to Apply CSS as like to A and like
- Block style in form of inline block.

```
li {  
  display: inline-block;  
}
```

In HTML

<P> First Block paragraph </P>

 This Block paragraph

* none - style *

In this your content will not display the content which will apply in none style

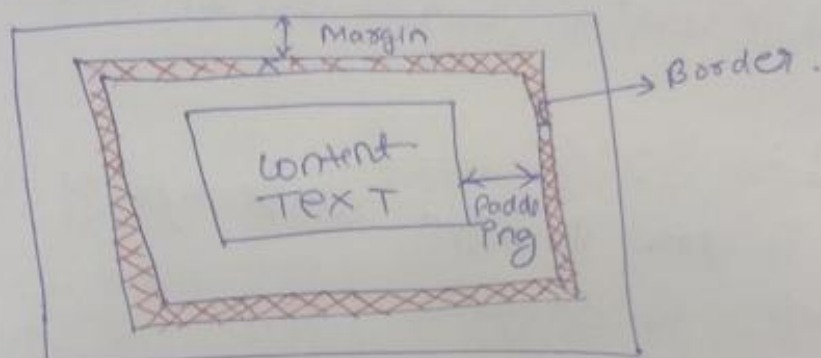
```
li {  
  display: none;  
}
```

In HTML

<P> First Block paragraph </P>

 This Block paragraph

* CSS layout style *



i) Margin

This is used to space giving between Border & Screen is called margin.

ii) Border

It is used give thick, dotted type border to separate content and margin.

iii) Padding

It is used to give space between content & border.

→ It is used to make cell or row thick.

* CSS Border *

It is used to border on an element.

1) CSS Border - style

It is used to style what type of border you want to style.

`< p style = "border: 2pt solid orange;" > This
element border style solid. </p>`

2) CSS Border-width

It is used to set thickness or thinness of the border.

-> You can give by in percentage, pixel and
by medium, thick and thin

-> `< p class = "one" > write your text here </p>
 < p class = "two" > " " </p>
 < p class = "three" > " " </p>`

In CSS

p. one {

border-style: solid;
border-width: 5px;
}

p. two {

border-style: solid;
border-width: medium;
}

p. Three {

border-style: solid;
border-width: 1px;

Individual Sides - Border

The borders are applied in (Top, right, bottom, & left).

PS

```
border-top-style: dotted;  
border-right-style: solid;  
border-bottom-style: dotted;  
border-left-style: solid;
```

}

<P> different border styles.

* Rounder Borders

PS

```
border: 2px solid red;  
border-radius: 5px;
```

}

* CSS - Border - Color

PS

```
border-style: solid;  
border-color: red;
```

}

* CSS Margin *

→ In this you can give space between screen corner to border.

P {

border: 2px solid orange;

margin-left: 20px, 20px, auto;

}

It can be done in left, right, Top & bottom

* CSS Padding *

→ In this you can give space between content & border.

P {

border: 5px solid red;

padding-left: 30px;

}

* Navigation Bars *

It is used to Navigate Any website

Home	Table	About	Contact
------	-------	-------	---------

→ Navigation Bar: List of links.

→ we can use block as well Inline Attribute

Home

css

ul {

list-style-type: none;

margin: 5px;

padding: 5px;

}

li {

display: block;

color: black;

padding: 8px 16px;

text-decoration: none;

}

It will produce the result in vertical-

Home

About

Contact

→ Horizontal Navbars

It is used by inline display

 <some text>

In CSS-

{

display: inline

}

→ Position

→ static → It is same as default

→ relative →

→ absolute →

→ fixed → It will fixed and if you scroll down it will not move

→ sticky →

→

* Introduction to CSS3 *

- It is the latest version of CSS.
- Another you can style in a dynamic Nature, in 3D, 2D way.
- It has more flexible than HTML.

* Box shadow *

It is used to Add shadow effect around element from me. we did not Add Any image for this.

* Rounded Corners

- It is used to Round your box corners without using
- n° number of code.
- By just border-radius property you can use this.

#example

```
border-radius: 25px;  
border: 2px solid white;  
padding: 20px;  
width: 200px;  
height: 150px;
```

}

* CSS Multiple Background *

91 is a background-clip property.

• clip is

```
background-clip: border-box;
```

```
padding-box;
```

```
content-box;
```

```
}
```

* Animation *

→ In this you can delay or retrieve your image or any content.

→ 91 is used for @keyframes { }

@keyframes example {

from { background-color: red; }

to { background-color: yellow; }

}

div {

width: 100px;

height: 100px;

background-color: red;

animation-name: example;

animation-duration: 4s;

}

* Pseudo classes *

→ It is mainly used to apply style to a particular state of element.

→ However (universal) → For some Animation

→ Active → link in Active.

→ Focus → means you have already visited that link.

* Flexbox *

→ It is used to create layout.

→ It is 2D layout means it only in row or in column.

* Media Query *

→ It is used to making for the building responsive website.

→ Based on the device screen we can have custom styles triggered accordingly:

→ It is used by @media.

→ There are two important things to understand in this is max-width; min-width.

Suppose

max:

max-width: 400px (screen size is
 $\leq 400\text{px}$)

min-width: 400px (screen size is
 $\geq 400\text{px}$).

* overflow *

- It is used to make your content in a box.
- It has more property like, hidden, auto scroll.

-)

• Here {

height: 200px;

width: 100px;

background-color: yellow;

overflow: scroll;

}