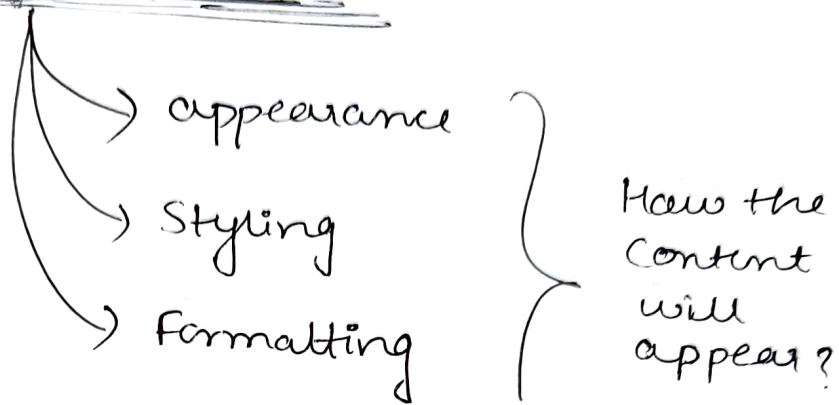


# CSS Basics - I



CSS :- Cascading Style Sheet.

- To style the web page.
- we add the properties
- all about appearance (visual)

Selectors in CSS :- is a way using which we can select an element(s).

1) Simple Selector.

- + Element Selector
- + class Selector
- + ID Selector

2) Pseudo-class Selector.

3) Multiple Selector.

Selector  
a {

color : # 02b3e4 ;  
└──┬──────────┘  
} property value.

## ① Element Selector

↳ also known as type selector and Tag Selector.

CSS can select HTML elements by using an element's tag name. A tag name is the word (or character) b/w HTML angle brackets.

→ It changes every Tag properties present in your Document.

Syntax:-

P {

color : red;

}

## ② Class Selector

Limited selecting elements by tag name.

→ grouping the tags for styling.

→ giving class name.

→ To select an HTML element by its class using CSS, a period (.) must be prepended to the class's name.

→ Classes will NOT be unique, always use for grouping.

---

### Example

`<p class = "green"> ABCD </p>`

`<p class = "green"> ABCD </p>`

`<p class = "blue"> ABCD </p>`

---

`<style>`

• green {

color: green;

}

• blue {

color: blue;

}

`</style>`

### ③ ID Selector

→ unique Selector.

→ The delineation is made by using (#) to represent an id.

→ Individual styling.

```
<button id="button"> Submit </button>
```

```
#button {  
    color: red;  
}
```

### ④ pseudo-Classes Selector :-

pseudoclass is a keyword added to a selector that can change to the special state of the selected element(s).

ex:-

```
<button> Submit </button>
```

CSS:-

```
button:hover {  
    color: yellow;  
}
```

↑  
color will change to yellow when mouse cursor will go on the button

## ④ Multiple Selector

↳ also called grouping selector.

Multiple Selection of elements

———— example ————

table, tr, td {

border: 1px solid black;

}

---

## How to add Styling to HTML?

① Inline

② Internal

③ External

} ways of adding  
CSS

---

### ① Inline CSS :-

Inline CSS is applied in Tag ✓

< p style="font-style: italic;" > Hello u </p>

└──────────────────┘

inline CSS  
in opening tag.

## ② Internal CSS :-

We use `<style>` tag which is written in `<head>` tag.

```
<head>
  <style>
    h1 {
      text-shadow: 1px 1px #FF0000;
    }
  </style>
</head>
<body>
  <h1> Internal CSS applied </h1>
</body>
```

## ③ External CSS :-

We create separate CSS file & HTML file and then link to each other.

Link using `<link>` element in HTML.  
`<link>` element is written inside

head tag.

Syntax

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



style.css



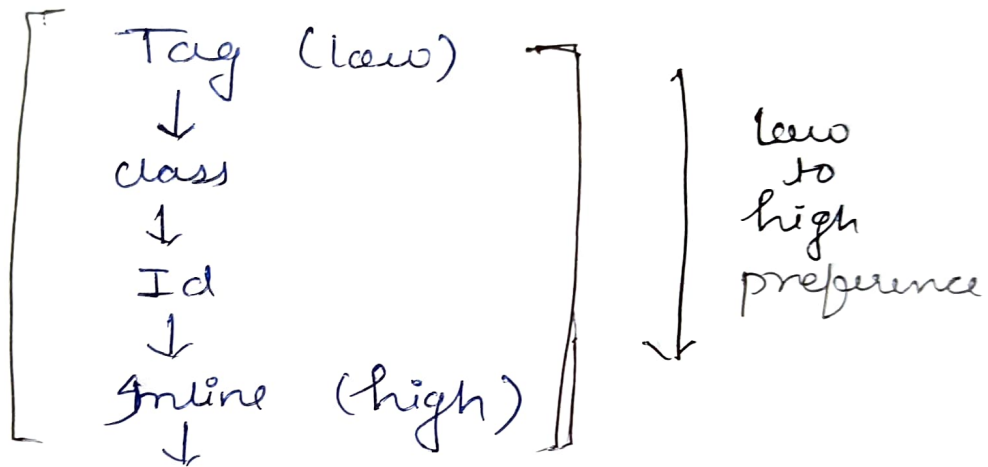
index.html



# # Specificity :-

- tag selector
- class selector
- id selector
- inline CSS
- ! Important (Bad practice)

To know whose Specificity is this.



! Important (important removes every selectors & use only selector where important is written)

---

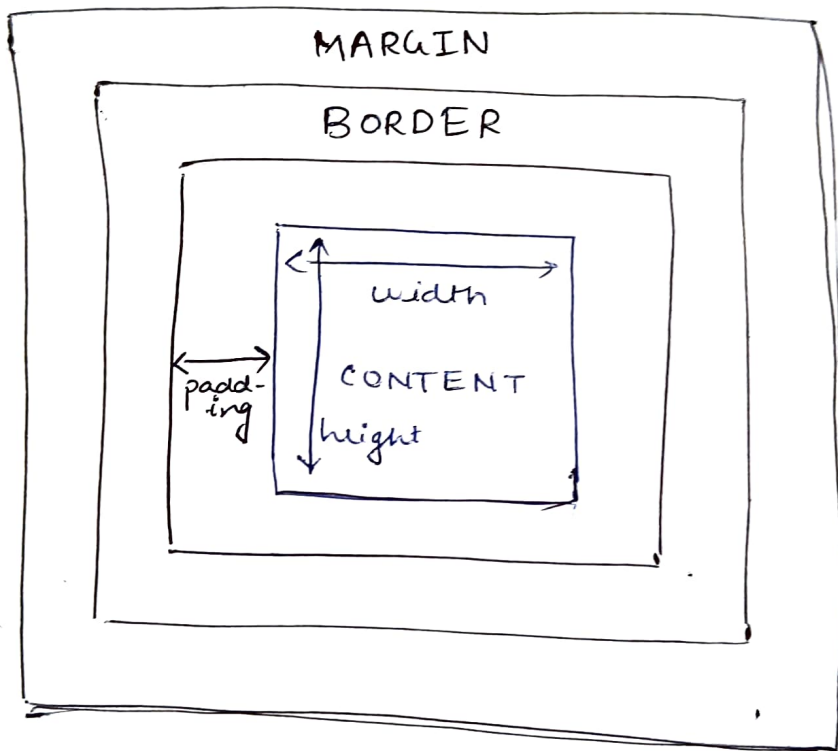
`<div class="abc" id="def"> kya haal hai </div>`

```
<style>
#def {
  color: red;
}
.abc {
  color: blue;
  text-style: italic;
}
div {
  color: green;
}
```

color: red  
&  
text-style: italic  
will be  
applied

# Box Model in CSS

- Basic building block of CSS
- every element on a page is a rectangular box & may have width, padding, borders & margins



(default margin  
→ 8px)

- ✓ Space b/w Border & content → padding
- ✓ Outer Side of Border Spacing → margin

margin = 10px  
(includes all left, right, top & bottom)

margin-left  
margin-right  
margin-top  
margin-bottom

} Specific

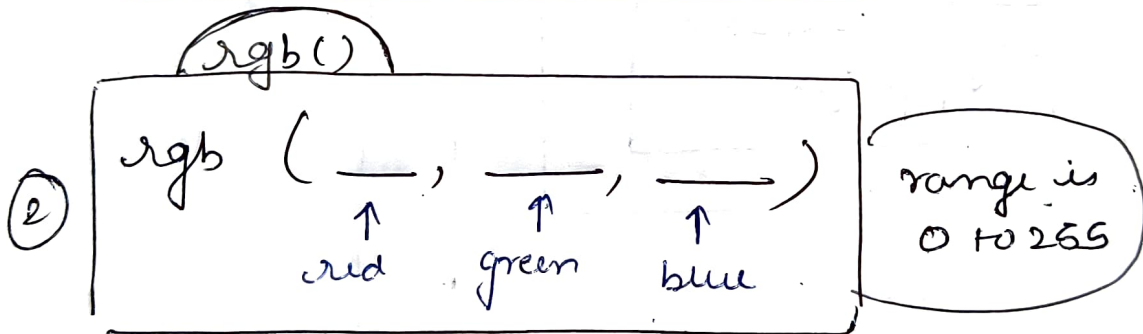
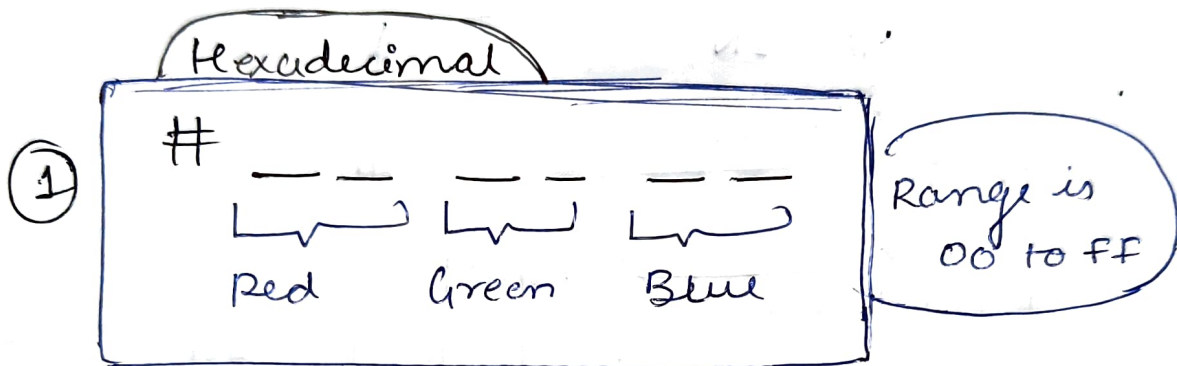
Same goes  
for  
padding.



## Colors in CSS :-

Ways to add colors :-

- (1) Hexadecimal colors (eg:- #00FFFF)
- (2) RGB colors (eg:- rgb(0, 0, 255))



rgb() → rgb function.

- (3) predefined / Cross - browser Color Names.

↳ 140 predefined colors by Name

# # Units in CSS

$$1\text{px} = \frac{1}{96} \text{ inch}$$

- (1) Absolute unit
  - mm
  - cm
  - in
  - px (fixed) For all devices
- (2) Percentage unit
  - 10% (percentage of parent element)
- (3) Relative unit

① Relative to font size 

- em
- rem

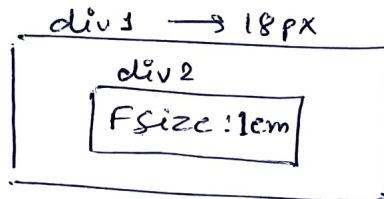
② Relative to Document 

- vm
- vh

✓ em → relative to parent element font size.

$$1\text{em} = 1 \times \text{parent size.}$$

eg:-



$$1\text{em} = 1 \times 18 \checkmark$$

$$2\text{em} = 2 \times 18 = 36 \checkmark$$

✓ rem → relative to root (root is html)

$$1\text{rem} = 1 \times 16 = 16\text{px}$$

$$\checkmark \text{vw} = \frac{1}{100} \times \text{width of viewport}$$

$$\checkmark \text{vh} = \frac{1}{100} \times \text{height of viewport (display area)}$$