

CSS

Selector in CSS

↳ Used to select elements

1. Simple Selector

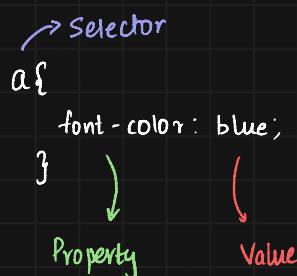
a) Element Selector

b) Class Selector → (.)

c) ID Selector → (#)

2. Pseudo-class selector

3. Multiple Selector



Pseudo-class selector

↳ Keyword added to selector that specifies a special state of selected elements.

Eg- :hover (changes button's color when user hovers over it)

```
button:hover {
    font-color: violet;
}
```

How to add styling to HTML??

1. Inline CSS

2. Internal CSS

3. External CSS

↳ Used to link html and css script files

↗ Write this command in head section of html file

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

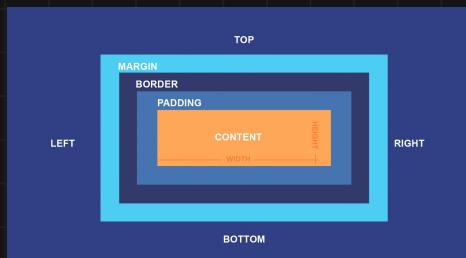
↳ Name of css file

Specificity

The logical order of selector is :

Inline CSS > ID > Class > Tag Selector

Box Model



When you increasing padding, box size increases
So to maintain border box size use :

box-sizing: border-box;

Colors in CSS

1. Hexadecimal colors - #RRGGBB

↳ All values must be b/w 00 and FF

Eg: #28ccaf

2. RGB Colors - rgb(r,g,b,0)

↳ All values lie b/w 0 to 255

0 stands for opacity

Eg: rgb(126, 34, 212, 0.135)

3. Pre defined / Cross-browser Colors - blue / green / aqua

↳ 140 color names predefined in HTML and CSS

Fonts

1. Font-Family :

font-family: "Gill Sans", sans-serif;

* Values are separated by comma to indicate that they are alternatives.

* The browser will select the first font in the list that is installed

2. Font-Size

font-size: 10px;

* Can also be specified as

↳ i) Smaller or larger

ii) in terms of "em"

iii) xx-small, x-small, small, medium, large, x-large, xx-large, xxx-large

iv) percent - 80%

3. Font-Weight

font-weight: bold;

* Can also be specified as

↳ i) normal, bold, bolder, lighter

ii) Values - 100, 400, 700, 900

↓ ↓
Normal Bold

4) Font-Style

font-style: italic;

* Can also be specified as

↳ Normal, oblique deg (oblique 40deg)

→ how much should the letters be slanted

5) Line height

Sets distance b/w the text lines

line-height: 10px;

How to add external fonts ??

* Use `@font-face` at-rule

Eg: `@font-face {
 font-family: "Trickster";
 src: local("Trickster"),
 url("trickster.woff");
}`

Units

1. Absolute Unit

- ↳ i) mm
- ii) cm
- iii) in
- iv) px ($\frac{1}{96}$ inch)

2. Percentage Unit

Eg: `div {
 width: 10%; \rightarrow 10% of parent element
}`

3. Relative Unit

↳ i) em \rightarrow Relative to parent element size

Eg: If font size = 18px

$$1\text{em} = 18\text{px}$$

$$2\text{em} = 36\text{px}$$

ii) rem \rightarrow Relative to root element (html)

4. Relative to View Port

Viewport \rightarrow Area of display

i) vw

↳ $\frac{1}{100} \times \text{width of viewport}$

ii) vh

↳ $\frac{1}{100} \times \text{height of viewport}$