CSS Fundamental

CSS is the language we use to style an HTML document

What is CSS

- CSS STANDS FOR CASCADING STYLE SHEET.

- CSS IS USED TO DESIGN HTML TAGS

- CSS IS A WIDELY USED LANGUAGE ON THE WEB

How to add CSS

CSS is added to HTML pages to format the document according to information in the style sheet. There are three ways to insert CSS in HTML documents.

1. Inline CSS
2. Internal CSS
3. External CSS

```
● ● ●    index.html

14    <p style="color:blue">Hello CSS</p>
```

```
● ● ●    index.html

4    <style>
5        p{color:blue}
6    </style>
```

```
● ● ●    index.html

8    <link rel="stylesheet" type="text/css" href="style.css">
```
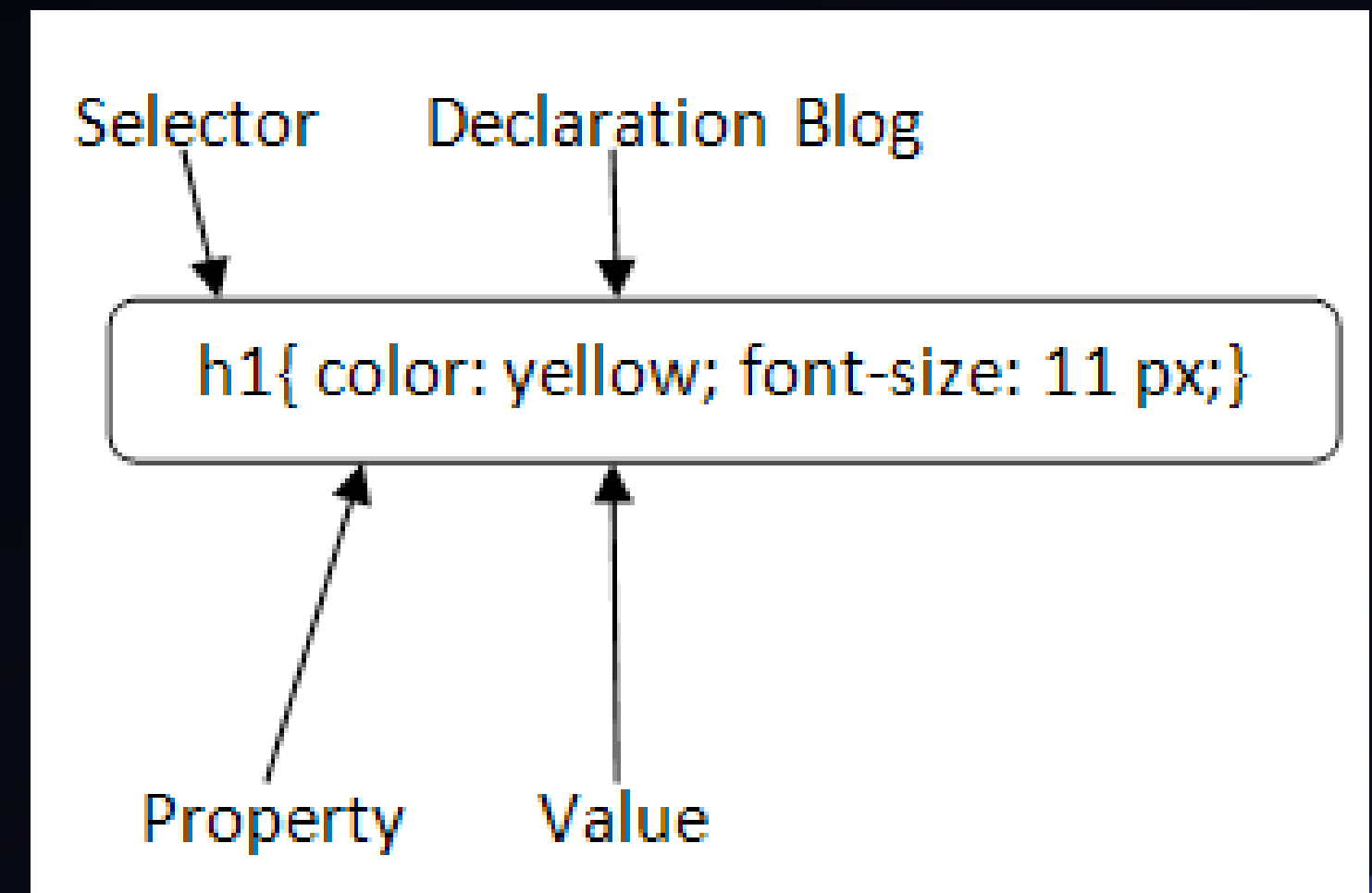
CSS Syntax

Selector: Selector indicates the HTML element you want to style. It could be any tag like <h1>, <title> etc.

Declaration Block: The declaration block can contain one or more declarations separated by a semicolon.

Property: A Property is a type of attribute of HTML element.

Value: Values are assigned to CSS properties.

CSS Selector

- **CSS ELEMENT SELECTOR**

- **CSS ID SELECTOR**

- **CSS CLASS SELECTOR**

- **CSS UNIVERSAL SELECTOR**

- **CSS GROUP SELECTOR**

CSS SELECTOR

CSS ELEMENT SELECTOR

```
    ●●●      index.html

11   p{
12      text-align: center;
13      color: blue;
14   }
```

CSS CLASS SELECTOR

```
    ●●●      index.html

16   .center {
17       text-align: center;
18       color: blue;
19   }
```

CSS ID SELECTOR

```
    ●●●      index.html

6    #para1 {
7       text-align: center;
8       color: blue;
9    }
10
```

CSS UNIVERSAL SELECTOR

```
    ●●●      index.html

21   * {
22      color: green;
23      font-size: 20px;
24   }
```

CSS GROUP SELECTOR

```
    ●●●      index.html

26   h1, h2, p {
27       text-align: center;
28       color: blue;
29   }
```

CSS Background Properties

```css
style.css

1  #MyBackground{
2      background-color: #b0d4de;
3      background-image: url("gradient_bg.png");
4      background-repeat: repeat-x;
5      background-attachment: fixed;
6      background-position: center;
7  }
8
```

CSS Border Properties

```css
style.css

1    p.none {border-style: none;}
2    p.dotted {border-style: dotted;}
3    p.dashed {border-style: dashed;}
4    p.solid {border-style: solid;}
5    p.double {border-style: double;}
6    p.groove {border-style: groove;}
7    p.ridge {border-style: ridge;}
8    p.inset {border-style: inset;}
9    p.outset {border-style: outset;}
10   p.hidden {border-style: hidden;}
11
```

CSS border-radius Properties

```css
style.css

1    #one {
2        border-radius: 90px;
3        background: lightgreen;
4    }
5    #two {
6        border-radius: 25% 10%;
7        background: orange;
8    }
9    #three {
10       border-radius: 35px 10em 10%;
11       background: cyan;
12   }
13   #four {
14       border-radius: 50px 50% 50cm 50em;
15       background: lightblue;
16   }
```

CSS Display Properties

```
style.css

1   p{
2       display: inline-block;
3   }
4   p{
5       display:block;
6   }
7   p{
8       display: run-in;
9   }
10  p{
11      display: none;
12  }
```

CSS Cursor Properties

```
  ● ● ●      index.html

8          <div style = "cursor:alias">alias Value</div>
9          <div style = "cursor:auto">auto Value</div>
10         <div style = "cursor:all-scroll">all-scroll value</div>
11         <div style = "cursor:col-resize">col-resize value</div>
12         <div style = "cursor:crosshair">Crosshair</div>
13         <div style = "cursor:default">Default value</div>
14         <div style = "cursor:copy">copy value</div>
15         <div style = "cursor:pointer">Pointer</div>
16         <div style = "cursor:move">Move</div>
17         <div style = "cursor:e-resize">e-resize</div>
18         <div style = "cursor:ew-resize">ew-resize</div>
19         <div style = "cursor:ne-resize">ne-resize</div>
20         <div style = "cursor:nw-resize">nw-resize</div>

                         Snipped
```

CSS Cursor Properties

```
     index.html

21      <div style = "cursor:n-resize">n-resize</div>
22      <div style = "cursor:se-resize">se-resize</div>
23      <div style = "cursor:sw-resize">sw-resize</div>
24      <div style = "cursor:s-resize">s-resize</div>
25      <div style = "cursor:w-resize">w-resize</div>
26      <div style = "cursor:text">text</div>
27      <div style = "cursor:wait">wait</div>
28      <div style = "cursor:help">help</div>
29      <div style = "cursor:progress">Progress</div>
30      <div style = "cursor:no-drop">no-drop</div>
31      <div style = "cursor:not-allowed">not-allowed</div>
32      <div style = "cursor:vertical-text">vertical-text</div>
33      <div style = "cursor:zoom-in">Zoom-in</div>
34      <div style = "cursor:zoom-out">Zoom-out</div>
```

CSS Float Properties

```css
style.css

1    #img1{
2        float: right;
3    }
4    #img2{
5        float: left;
6    }
7    #img3{
8        float: initial;
9    }
10   #img4{
11       float: inherit;
12   }
13
```

CSS Font Properties

```css
style.css

1   #MyFont{
2       font-size: 40px;
3       font-variant: small-caps;
4       font-weight:400;
5       color: red;
6       font-family: 'Courier New', Courier, monospace;
7       font-style: italic;
8   }
```

CSS Hover Properties

```css
style.css

1  .my-buttton{
2      background-color: red;
3  }
4  .my-buttton:hover{
5      background-color: green;
6  }
7
```

CSS Important

```
style.css

1   element {
2       font-size: 14px !important;
3       color: blue   !important;
4   }
```

CSS Line Height

```css
element {
    line-height: 70%;
}
```

style.css

Learn with Rabbil

CSS Margin

```
style.css

1  element {
2      margin-top: 50px;
3      margin-bottom: 50px;
4      margin-right: 100px;
5      margin-left: 100px;
6  }
```

CSS Padding

```css
style.css

1  element {
2      padding-top: 50px;
3      padding-right: 100px;
4      padding-bottom: 150px;
5      padding-left: 200px;
6  }
```

CSS Padding

```css
style.css

1  element {
2      padding-top: 50px;
3      padding-right: 100px;
4      padding-bottom: 150px;
5      padding-left: 200px;
6  }
```

CSS Opacity & Filter

```css
style.css

1   element {
2       filter: brightness(130%);
3       filter: blur(2px);
4       filter: invert(60);
5       filter: saturate(40);
6       filter:  drop-shadow(10px 20px 30px yellow);
7       filter:  contrast(50%);
8       filter: opacity(40%);
9       filter:  hue-rotate(240deg);
10      filter:   grayscale(80%);
11      filter:   sepia(90%);
12  }
```

CSS Overflow

```css
style.css

1   element {
2       overflow: scroll;
3       overflow: hidden;
4       overflow-y: auto;
5       overflow-x: scroll;
6   }
```

CSS Width Height

```css
element {
    height: 150px;
    width: 150px;
}
```

style.css

CSS Position

```css
style.css

1   p.pos_fixed {
2       position: fixed;
3       top: 50px;
4       right: 5px;
5       color: blue;
6   }
7   h2.pos_left {
8       position: relative;
9       left: -30px;
10  }
11  h2.pos_right {
12      position: relative;
13      left: 30px;
14  }
```

```css
style.css

1   h2 {
2       position: absolute;
3       left: 150px;
4       top: 250px;
5   }
```

CSS Word Wrap

```css
style.css

1   p.test {
2       width: 11em;
3       background-color: #00ffff;
4       border: 1px solid #000000;
5       padding:10px;
6       word-wrap: break-word;
7   }
```

CSS justify-content

```css
style.css

1    #flexstart{
2        display:flex;
3        justify-content: flex-start;
4    }
5
6    #flexend{
7        display:flex;
8        justify-content: flex-end;
9    }
10
11   #cent{
12       display:flex;
13       justify-content: center;
14   }
```

```css
style.css

16   #evenly{
17       display:flex;
18       justify-content: space-evenly;
19   }
20
21   #around{
22       display:flex;
23       justify-content: space-around;
24   }
25
26   #between{
27       display:flex;
28       justify-content: space-between;
29   }
```

CSS text decoration

```css
style.css

1    #p1 {
2        text-decoration: underline;
3    }
4    #p2 {
5        text-decoration: line-through;
6    }
7    #p3 {
8        text-decoration: overline;
9    }
10   #p4 {
11       text-decoration: overline underline line-through;
12   }
```

CSS letter-spacing

```css
style.css

1    #p1 {
2        letter-spacing: normal;
3    }
4    #p2 {
5        letter-spacing: 7px;
6    }
7    #p3 {
8        letter-spacing: 0.7em;
9    }
10   #p4 {
11       letter-spacing: -1px;
12   }
```

CSS word-spacing

```css
1    #p1 {
2        word-spacing: normal;
3    }
4    #p2 {
5        word-spacing: 40px;
6    }
7    #p3 {
8        word-spacing: 20px;
9    }
10   #p4 {
11       word-spacing: 1%;
12   }
```

style.css

CSS Variables

```css
style.css

1   :root {
2       --bg-color: lightgreen;
3       --text-color: red;
4   }
5
6   h1 {
7       color: var(--text-color);
8   }
```