




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">
```

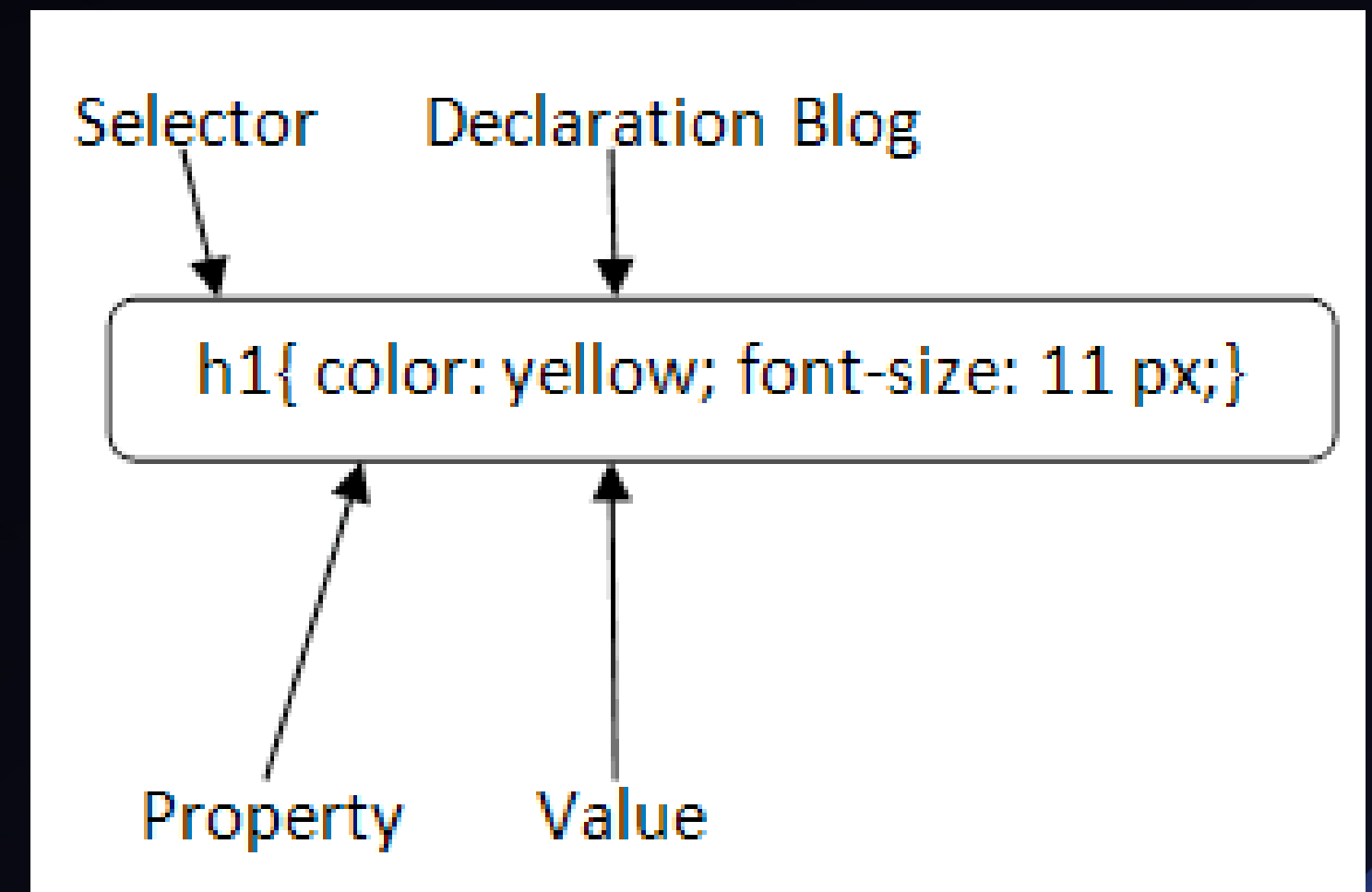
CSS Syntax

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

● ● ● 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

● ● ● 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

● ● ● 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

● ● ● 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

● ● ● 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

● ● ● style.css

```
1  .my-button{
2      background-color: red;
3  }
4  .my-button: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

● ● ● style.css

```
1  element {  
2      line-height: 70%;  
3  }
```

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

● ● ● style.css

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

CSS Padding

● ● ● style.css

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


CSS Opacity & Filter

● ● ● 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

● ● ● style.css

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

CSS Width Height

● ● ● style.css

```
1  element {  
2      height: 150px;  
3      width: 150px;  
4  }
```

CSS Position

●●● 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 }
```

●●● style.css

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

CSS Word Wrap

● ● ● 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

● ● ● 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 }
```

● ● ● 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

● ● ● 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

● ● ● 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

● ● ● style.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 }
```

CSS Variables

● ● ● style.css

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