

# CSS

Cascading Style Sheets Introduction

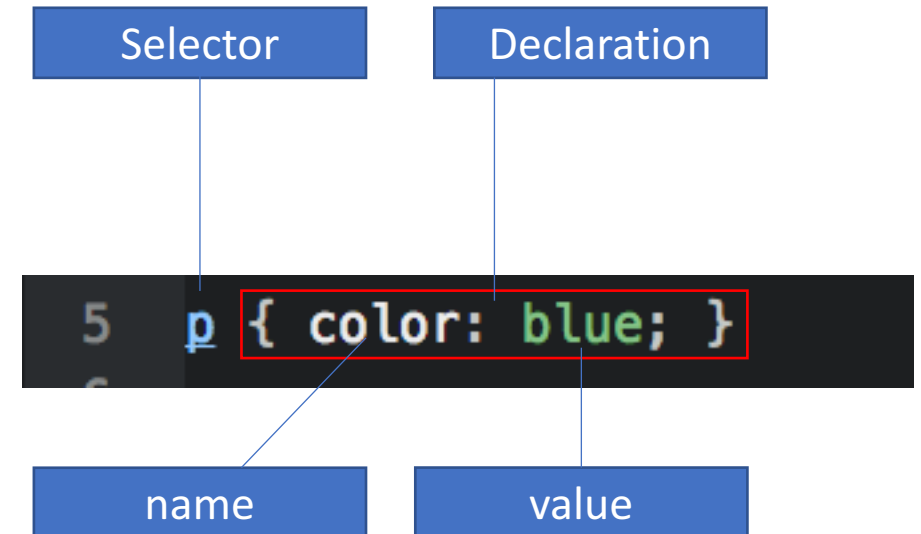
# What is CSS?

- Cascading Style sheets
- A language that describes:
  - HTML styles.
  - How HTML elements should be displayed.

```
1  h1 {  
2      color: red;  
3  }  
4
```

# CSS Rules

- A CSS rule consists of a **selector** and a **declaration**
- The selector points to the HTML element you want to style.
- Each declaration includes a CSS **property name** and a **value**, separated by a colon.



# CSS Selectors: id

- The id selector uses the id attribute of an HTML element to select a specific element.
- The id of an element should be unique within a page, so the id selector is used to **select one unique element!**
- To select an element with a specific id, write a hash (#) character, followed by the id of the element.

```
10  #intro {  
11    text-align: center;  
12    color: green;  
13  }  
14
```

The style will be applied to the element with **id="intro"**

# CSS Selectors: class

- The class selector selects elements with a specific class attribute.
- To select elements with a specific class, write a period (.) character, followed by the name of the class.

```
15  .boxed {  
16    background: lightcyan;  
17    border: 1px solid black;  
18    padding: 10px;  
19    text-align: center;  
20  }
```

The style will be applied to  
the element with  
**class="boxed"**

# CSS Declaration

- A CSS rule may have **multiple** declarations.
- A CSS declaration always ends with a **semicolon**, and declaration blocks are **surrounded by curly braces**.

```
5  p { color: blue;  
6      font-style: italic;  
7      text-transform: capitalize;  
8  }
```

# External Style Sheet

- With an external style sheet, you can change the look of an entire website by changing just one file!
- Each page must include a reference to the external style sheet file inside the `<link>` element. The `<link>` element goes inside the `<head>` section

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8">
5      <title>Page Title</title>
6      <link rel="stylesheet" href="style.css">
7  </head>
```

# Internal Stylesheet

- An internal style sheet may be used if one single page has a unique style.
- Internal styles are defined within the <style> element, inside the <head> section of an HTML page:

```
1 <head>
2 <style>
3   body {
4     background-color: linen;
5   }
6
7   h1 {
8     color: maroon;
9     margin-left: 40px;
10  }
11 </style>
12 </head>
```



# Inline Styles

- An inline style may be used to apply a unique style for a single element.
- To use inline styles, add the style attribute to the relevant element. The style attribute can contain any CSS property.
- The example below shows how to change the color and the left margin of a <h1> element:

```
1  <h1 style="color:blue;margin-left:30px;">  
2      This is a heading  
3  </h1>
```

# Cascading Order

- What style will be used when there is **more than one** style specified for an HTML element?
- Generally speaking we can say that all the styles will "cascade" into a new "virtual" style sheet by the following rules, where number one has the highest priority:
  - Inline style (inside an HTML element)
  - External and internal style sheets (in the head section)
  - Browser default
- So, an inline style (inside a specific HTML element) has the highest priority, which means that it will override a style defined inside the <head> tag, or in an external style sheet, or a browser default value.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <link rel="stylesheet" type="text/css" href="mystyle.css">
5 <style>
6 body {background-color: linen;}
7 </style>
8 </head>
9 <body style="background-color: lightcyan">
10
11 <h1>Multiple Styles Will Cascade into One</h1>
12 <p>In this example, the background color is set inline, in an
  • internal stylesheet, and in an external stylesheet.</p>
13 <p>Try experimenting by removing styles to see how the
  • cascading stylesheets work. (try removing the inline first,
  • then the internal, then the external)</p>
14
15 </body>
16 </html>
```

# The CSS File

- An external style sheet can be written in any text editor.
- The file should **not contain** any html tags.
- The style sheet file must be saved with a **.css extension**.

**Note:** Do not add a space between the property value and the unit (such as `margin-left: 20 px;` ). The correct way is: `margin-left: 20px;`