

Web Programming

Chapter 4: CSS

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Chapter Description

- Expected Outcome
 - Able to use CSS in web page development
- References
 - www.w3schools.com



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CSS

- CSS(Cascading Style Sheets) describes how HTML elements are to be displayed on screen, paper, or in other media
- It can control the layout of multiple web pages all at once.
- There are 3 types of CSS
 - External style sheet
 - Internal style sheet
 - Inline style



CSS Structure

Selector	Declaration	Declaration
<code>h1</code>	<code>{color:cyan;font-size:10px;}</code>	
	Property Value	Property Value

- A CSS rule has two main parts: a selector, and one or more declarations
- The selector is normally the HTML element.
- Each declaration consists of a property and a value.
- The property is the style attribute that has a value.



Basic CSS

```
<!DOCTYPE html>
<html><head>
  <style>
    p
    {
      text-align: center;
      color: red;
    }
    #para1
    {
      text-align: center;
      color: blue;
    }
    #para2
    {
      text-align: center;
      color: orange;
    }
  </style></head>
  <body>
    <p>My first CSS.</p>
    <p id="para1">I am blue</p>
    <p id="para2">I am orange!</p>
  </body>
</html>
```

style tag →

paragraph tag →

id selector →

output



My first CSS.

I am blue

I am orange!



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Basic CSS and Id Selector Explained

- The code in the previous slide is CSS in an internal style sheet.
- It should be used when a single document has a unique style.
- Internal styles is defined in the head section of an HTML page, by using the <style> tag
- The <p> tag had been defined with its text alignment and color.
- CSS also allows you to specify your own selectors called "id"
- The id selector uses the id attribute of the HTML element, and is defined with a "#".
- The example shows it has been applied to the element with id="para1" and id="para 2"



Class Selector

```
<!DOCTYPE html>
<html>
<head>
<style>
  .center
  {
    text-align:center;
    color: red;
  }
  .left
  {
    text-align:left;
    color: blue;
  }
</style>
</head>
<body>
  <h1 class="center">Center-aligned heading</h1>
  <p class="left">left-aligned paragraph.</p>
  <p class="center">center-aligned paragraph.</p>
</body>
</html>
```

class selector →

header tag with class selector →

output



Class Selector Explained

- The class selector is used to specify a style for a group of elements.
- The class selector is most often used on several elements.
- The class selector uses the HTML class attribute, and is defined with a "."
- In the example from the previous slide, the header tag with class="center" will be center-aligned.



Ways To Insert CSS

- Other than internal style sheets, the other 2 ways to insert CSS which are external style sheets and inline style sheets.
- Inline styles allows the usage of the style attribute in the relevant tag. The style attribute can contain any CSS property such as `<p style="color:sienna;margin-left:20px">This is a paragraph.</p>`



Ways To Insert CSS

- An external style sheet is ideal when the style is applied to many pages.
- External style sheet allows the entire Web site to be changed by changing one file.
- Each page must link to the style sheet using the <link> tag. The <link> tag goes inside the head section:

```
<head>  
< link rel="stylesheet" type="text/css" href="mystyle.css">  
</head>
```
- An external style sheet can be written in any text editor. A style sheet should be saved with a .css extension.



Activity

- Please take a look Tutorial 5 for some basic CSS lab exercises
- The lesson continues with CSS Part 2



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