Web Design and Development ACS-1809

Chapter 4

Cascading Style Sheet

Cascading Style Sheets

- A style defines the appearance of a document
- A style sheet a file that describes the layout and appearance of a document
 - huses a common language and syntax

Cascading Style Sheets

- CSS style sheet language
 - maintained by World Wide Web Consortium (W3C)

 - his a whole new way of formatting web pages
 - novides several tools not available with standard HTML
 - nused as a design tool
 - makes website more flexible
 - easier to maintain and modify
 - more aesthetically interesting
 - consistent look
 - *separates the document's style from its content*

Style Sheets

- The purpose of cascading style sheets (abbreviated CSS) is to separate the style of a web page from its content
- The current HTML "rules" dictate that we only use HTML to identify the content of a page, and then use a style sheet to specify the presentation of that content
- This not only makes web pages more accessible and usable to all users, but also to search engines and other types of software

Define the Style

- To define a basic formatting style, you first must identify which tag you want to affect. This tag is then called a *selector* in CSS

 - The selector is essentially the tag without the brackets

Define the Style – Cont'

- Once you have a selector, you can define its properties
- Similar to how attributes work in HTML, CSS
 properties alter specific attributes of a selector
 Font-family, font-style, font-size, color: properties
- When you specify values for properties, you are creating a declaration for that selector
- The declaration and selector together are then referred to as a set of rules, or ruleset

Example

```
Selector
h2
font-family
                                Property
Calibri
                                  Value
{font-family : Calibri;}
                                            Declaration
All together:
   h2 {font-family : Calibri;}
   h2 {font-family : Calibri;
        font-size: 14pt;
         color: blue;
         font-style : italic; }
```

Value

- Values are not placed between quotation marks
- Most values can be specified in terms of color, keyword, length, percentage, or URL
- Table 3-1 in the textbook shows the types of CSS values

Structure

- CSS offers 3 types of style sheets:
 - *Inline: Styles are embedded right within the HTML elements they affect
 - Internal: Styles are placed within the header information of the web page, and then affect all corresponding tags on this single page it resides in
 - External: Styles are coded in a separate document, referenced from within the header of the actual web page

Inline

- Inline styles are created right within the HTML elements of the page
- Inline declarations are enclosed in straight quotes using the style attribute of tag.
- You can separate multiple rules by semicolons, but the entire declaration should be included within the quotes

Internal

- Internal or embedded style sheets
 - Instead of adding the style attribute to a tag, use the *style tag* to contain all the information for the page
 - **style tag: in the head element of the page, in between the opening and closing head tags

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Example

The selector is placed before the declaration.

Declaration in curly brackets.
h2 {font: verdana 12pt;}

External

- An external style sheet essentially holds the same information as an internal one.
 - *With exception: the information is contained in its own text file(.css) and then referenced from within the web page
 - External style sheets don't use style tag or attribute
 - They simply list the rulesets as instructions for browser

Example

```
<head>
 <title>Using an external style sheet</title>
 k rel="stylesheet" href="styles.css" >
</head>
In file "styles.css":
                                   This is where the
  h1 { font: georgia 14pt bold;
                                   name of your style
   color: #0000FF}
                                   sheet is placed.
  h2 { font: georgia 12pt bold;
  color: #0066FF}
  h3 { font: georgia 11pt bold;
   color: #6666FF}
```

Understand the Cascade

Cascade

- In some sense can be understood as "combined"
 - When multiple style declarations can be applied to one block of content in an html file
 - ☐ The web browser essentially combines all the style declarations into one single declaration
 - ☐This can be analyzed using a very complex scale point system
 - But for now to simplify the analysis we would just say: Inline > Internal > External

!Important

- It is used to declare a a style more important
 - An !important declaration ultimately takes precedence over a normal style sheet declaration.
 - The keyword must be prefaced by an exclamation mark in order to be properly interpreted by the browser P {color: blue !important;}