Scripting for Multimedia

LECTURE 5: INTRODUCING CSS3

CSS introduction

- CSS Level 1 --> CSS Level 2 --> CSS Level 3 (in modules)
 - More than 50 modules are published
- Cascading style sheets (CSS) defines how HTML elements are displayed
 - background, background colors, margins, fonts, borders, position, etc
 - A style sheet is a set of style rules
 - You can create a style and apply it to many elements based on a selector --> reusability
 - Cascading of CSS

Defining and applying a style

- A style rule, or style, is composed by:
 - the selector
 - the declaration block
- Multiple declarations are separated with a semicolon
- A declaration comprises
 - a CSS property
 - a colon
 - a value

Defining and applying a style

Example

```
body {
   background-color: white;
   color: gray;
}
```

Adding comments within a style sheet

 Add comments within a style sheet using /* (start) and */ (end) characters

```
• Example
  /* This is the style
    for the body element */
body {
    background-color: white; /* The rgb value is #ffffff */
    color: gray; /* This is the font color */
}
```

Creating an inline style

- Inline style
 - elements having a global style attribute
 - selector is omitted
 - Example
 <body style='background-color: white; color: gray;'>
 </body>
- Inline style should be avoided
 - It violates reusability
 - Advantage: it overrides styles defined elsewhere

Creating an embedded style

 You can use <style> element to create an embedded style sheet

```
    Example

 <!DOCTYPE html>
  <html xmlns='http://www.w3.org/1999/xhtml'>
  <head>
     <title></title>
     <style>
         body {
             background-color: white;
             color: gray;
     </style>
  </head>
  <body></body>
  </html>
```

Use link> element to reference an external style sheet file

```
    Example

 <!DOCTYPE html>
 <html xmlns='http://www.w3.org/1999/xhtml'>
 <head>
     <title></title>
     <link rel='stylesheet' type='text/css'</pre>
 href='Content/default.css' />
 </head>
 <body></body>
                       body {
 </html>
                            background-color: white; /* The rgb value is
                       #ffffff */
                            color: gray; /* This is the font color */
```

- Using media to specify the target device
 - link> element has a media attribute

 - allhandheldspeech
 - brailleprinttty

- embossedscreentv

Example

```
<!DOCTYPE html>
<html xmlns='http://www.w3.org/1999/xhtml'>
<head>
   <title></title>
    <link rel='stylesheet' type='text/css' href='Content/screen.css'</pre>
media='screen' />
    <link rel='stylesheet' type='text/css' href='Content/print.css'</pre>
media='print' />
</head> <body></body> </html>
```

Using media to specify the target device

 Specifying the character encoding of the style sheet using @charset

```
• Example
@charset 'UTF-8';
body {
    background-color: white;
    color: gray;
}
```

- <meta> element in HTML doc will override @charset in CSS file
 - Example

- Imported style sheets from other style sheets using @import
 - @import must be at the top of a style sheet before any other content except @charset

```
• Example
@charset 'UTF-8';
@import url('/Content/header.css');
@import url('/Content/menu.css');
@import url('/Content/sidebar.css');
@import url('/Content/mainContent.css');
@import url('/Content/footer.css');
body {
    background-color: white;
    color: gray;
```

- Imported style sheets from other style sheets using @import
 - You can also specify the media type for each @import

```
• Example
@charset 'UTF-8';
@import url('/Content/header.css'); screen
@import url('/Content/menu.css'); screen
@import url('/Content/sidebar.css'); screen
@import url('/Content/mainContent.css'); /*default is all */
@import url('/Content/footer.css'); print
body {
    background-color: white;
    color: gray;
}
```

- Using @font-face rule to import fonts
 - Example
 @font-face {
 font-family: myFont;
 src: url('Fancy_Light.ttf'),
 url('Fancy_Light.eot'); /* IE9 */
 }

NOTE FONT LICENSING

Fonts are intellectual property, just like software, music, and video. Be sure to have the proper license to use any font with the @font-face rule.