

Cascaded Style Sheets - CSS

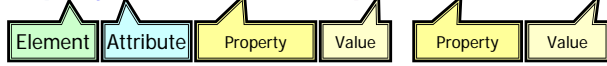
- ❖ **CSS** provides format specifications for XHTML/HTML structural elements
- ❖ Three ways to create **Style Definitions**
 - ◆ **Inline Styles** = Format for single element
 - ◆ **Embedded CSS** = Format all similar elements in an XHTML document
 - ◆ **External CSS** = Link to external CSS file that may be shared by many html documents
- ❖ Two types of **Style Sheet Rules**
 - ◆ **Redefined Element** = Presentation specification for existing XHTML element
 - ◆ **Style Class** = Presentation specification which can be applied to any element

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Anatomy of a Style

- ❖ **Inline Style Definition**

```
<p style = "font-size: 20pt; color: #0000FF">
```


- ❖ **Style Sheet Rule (Embedded CSS & External CSS)**

```
h1 { font-family:"Verdana"; color:#009900;
```


- ❖ **Listing of all CSS Properties**
<http://www.htmlhelp.com/reference/css/properties.html>

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CSS font-family Specifications

- ❖ Times New Roman is the default font for all text on most Internet browsers
- ❖ Other fonts may be specified using the CSS property **font-family**
- ❖ Font must be available on client computer with order of preference left to right
- ❖ Font Groups
 - ◆ **Serif** = Best for paragraphs
 - ◆ font-family: "Georgia", "Times New Roman", "Times", serif;
 - ◆ **Sans-Serif** = Best for headings
 - ◆ font-family: "Verdana", "Arial", "Helvetica", sans-serif;
 - ◆ **Monospace** = Equal width characters
 - ◆ font-family: "Courier New", "Courier", monospace;
 - ◆ **Special Characters** = Non-text symbols
 - ◆ font-family: "Wingdings";

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Font Related Styles Properties

- ❖ See Appendix B for details
 - ◆ font-family: "Verdana", "Arial", sans-serif;
 - ◆ font-size: 18pt; /* Can also use px */
 - ◆ font-weight: 600; /* Range 100 to 900 */
 - ◆ font-style: italic; /* or normal */
 - ◆ font-variant: small-caps; /* or normal */
 - ◆ line-height: 22pt; /* Can also use px */
- ❖ Combined form font properties

```
font: italic 400 12pt/15pt "Georgia"
```

variant weight *size* / *line-height* *font-family*

 - ◆ text-align: center; /* or left, right, justify */
 - ◆ text-transform: capitalize; /* uppercase, lowercase */
 - ◆ text-decoration: underline; /* or none, blink */
 - ◆ text-indent: 8pt; /* first line of paragraph indent */

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Inline Style Example

```

<head>
  <title>Inline Style</title>
</head>
<body>
  <p style="font-size: 12pt; font-family: Arial;" >This is a
  test of setting various text style attributes:<br />
  Here is some <strong>Strong</strong> text,
  <h3 style="color: #0000FF" >Blue H3 Text</h3>
  <p>Text that is <em>Emphasized</em>
  can look like this. </p>
</body>
    
```

This is a test of setting various text style attributes:
Here is some **Strong** text,

Blue H3 Text

Text that is *Emphasized* can look like this.

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Embedded Style Sheet with Redefined Elements

```

<head>
  <title>Embedded CSS Example</title>
  <style type="text/css">
    /**/
    body { background-color: #FFFFFF; color: #000000 }
    p { font-family: "Arial"; font-size: 12pt }
    strong { font-size: 18pt; font-weight: 600 }
    h3 { color: #0000FF }
    em { font-size: 14pt; font-style: italic;
        text-transform: uppercase; color: #990000;
        background-color: #CCFFFF }
    /*]]&gt;*/
  &lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;
  &lt;p&gt;This is a test of setting
  various text style
  attributes:&lt;br /&gt;
  Here is some &lt;strong&gt;Strong&lt;/strong&gt; text,
  &lt;h3&gt;Blue H3 Text&lt;/h3&gt;
  &lt;p&gt;Text that is &lt;em&gt;Emphasized&lt;/em&gt; can look like this.&lt;/p&gt;
&lt;/body&gt;
    </pre>
<div style="border: 1px solid black; padding: 5px; margin: 10px;">
<p>This is a test of setting various text style attributes:<br/>Here is some <b>Strong</b> text,</p>
<p style="color: blue;">Blue H3 Text</p>
<p>Text that is <i>EMPHASIZED</i> can look like this.</p>
</div>
</div>
<div data-bbox="106 530 460 875" data-label="Complex-Block">
<h3 style="text-align: center;">External Style Sheet with Redefined Elements</h3>
<pre>
&lt;head&gt;
  &lt;title&gt;External CSS Example&lt;/title&gt;
  &lt;link rel="stylesheet" type="text/css" href="example2.css" /&gt;
&lt;/head&gt;
&lt;body&gt;
  &lt;p&gt;This is a test of setting
  various text style
  attributes:&lt;br /&gt;
  Here is some &lt;strong&gt;Strong&lt;/strong&gt; text,&lt;/p&gt;
  &lt;h3&gt;Blue H3 Text&lt;/h3&gt;
  &lt;p&gt;Text that is &lt;em&gt;Emphasized&lt;/em&gt; can look like this.&lt;/p&gt;
&lt;/body&gt;
    </pre>
<div style="border: 1px solid black; padding: 5px; margin: 10px;">
<p>This is a test of setting various text style attributes:<br/>Here is some <b>Strong</b> text,</p>
<p style="color: blue;">Blue H3 Text</p>
<p>Text that is <i>EMPHASIZED</i> can look like this.</p>
</div>
<div style="border: 1px solid black; padding: 5px; margin: 10px; background-color: #ffffcc;">
<p><i>/* example2.css file that is linked to from html document */</i><br/>
    body { background-color: #FFFFFF; color: #000000 }<br/>
    p { font-family: Arial; font-size: 12pt }<br/>
    strong { font-size: 18pt; font-weight: 600 }<br/>
    h3 { color: #0000FF }<br/>
    em { font-size: 14pt; font-style: italic; text-transform: uppercase;<br/>
    color: #990000; background-color: #CCFFFF }</p>
</div>
</div>
<div data-bbox="532 530 890 875" data-label="Complex-Block">
<h3 style="text-align: center;">Inheritance - Cascade Rules</h3>
<ul style="list-style-type: none;">
<li>❖ <b>Child</b> elements inherit styles from <b>parent</b>
<ul style="list-style-type: none;">
<li>◆ Determines element appearance if no style property is specified for an element</li>
<li>◆ Inline elements inherit styles of block-level element</li>
<li>◆ Nesting Order of inline elements define inheritance</li>
</ul>
</li>
</ul>
<pre>
&lt;head&gt;
  &lt;title&gt;Inheritance Example&lt;/title&gt;
  &lt;style type="text/css"&gt;
    body { font-family: Arial; font-size: 16pt }
    p { color:#0000FF; background-color:#FFFF00 }
    i { color:#FF0000; text-decoration: underline;}
    b { color:#00FF00; }
  &lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;
  &lt;p&gt;Parent &lt;b&gt;element&lt;/b&gt; p &lt;i&gt;child
  &lt;b&gt;element&lt;/b&gt;&lt;em&gt; looks like this.&lt;/p&gt;
&lt;/body&gt;
    </pre>
<p style="background-color: yellow;">Parent element p <b>child</b> element em looks like this.</p>
</div>
<div data-bbox="92 900 290 922" data-label="Page-Footer">
<p>Copyright © 2007 R.M. Laurie</p>
</div>
<div data-bbox="895 903 913 922" data-label="Page-Footer">
<p>2</p>
</div>
```