

## A Little HTML and CSS



## Hypertext Markup Language



- A way to add presentation elements to a Web document
- Layout controlled by adding “tags” to a document
- Example:

**<b>A bold statement</b>**

- Causes the text between the tags to appear in **boldface**

## HTML Basics



Tags occur in pairs surrounding the content they effect

- Structure of an HTML document:

```
<html>
  <head> header section </head>
  <body> body of document </body>
</html>
```

## HTML Basics



- Hand coded HTML is a lost art, and most Web page designers use tools like Dreamweaver or Expression
- Web programmers need to know the basics of HTML to write code that generates HTML documents

## A Few Tags



```
<html> Identifies an HTML document
<head> Holds the <title> & a few other things
<body> Body of document
<h1> Level 1 heading
<p> Paragraph
<br /> Line break
<a href= ...> Hyperlink
<img src= ...> Insert an image
```

## HTML



- Tags must be properly nested
- Many tags use *attributes* to add information or style: ``
- More control over the appearance of HTML documents is achieved by using the style attribute or cascading style sheets

## Common Style Attributes

- Font-family
- Font-size
- Font-weight
- Background-color
- Color
- Text-align

## HTML With Inline Styles

```
<h1 style="Font-Size: 20pt; Color: white; Font-Family: Arial, Sans-Serif; Background-Color: blue">A Big Bold Heading</h1>
<h2 style="Font-Size: 14pt; Font-Style: italic; Font-Family: 'Times New Roman', Serif">A Smaller Heading</h2>
<p style="Font-Size: 10pt; Font-Family: 'Courier New', Monospace; Text-Align: left">
Text that is left justified and mono-spaced</p>
<p style="Font-Size: 12pt; Font-Family: Arial, Sans-Serif; Text-Align: center">Text that is centered and mono-spaced</p>
<p style="Font-Size: 14pt; Color: green; Font-Weight: bold; Font-Family: 'Courier New', Monospace; Text-Align: right">
Text that is right justified, green, bold, and mono-spaced</p>
```

## Cascading Style Sheets (CSS)

Written as a collection of rules of the form:  
*selector { property : value }*

- Example:  

```
H1 { color: green }
P { text-indent: 0.2in }
P.hot {color: red; font-weight: bold; font-style: italic}
```

<http://www.htmlhelp.com/reference/css/>

## Cascading Style Sheets (CSS)

- Internal declaration:  

```
<head>
<style> definitions go here </style>
</head>
```
- External declaration:  

```
<link rel="stylesheet" href="style.css" type="text/css">
```
- Use:  

```
<p class="hot"> text... </p>
```

## HTML Tables

Displaying data in tables is common

```
<table width="50%" border="1">
<tr>
<th>Col 1</th>
<th>Col 2</th>
</tr>
<tr>
<td>abc</td>
<td>500</td>
</tr>
<tr>
<td>xyz</td>
<td>300</td>
</tr>
</table>
```

Row

Heading

One cell