

Announcements

- CMSC 198N – Introduction to Computer Programming via the Web
- Web site:
<http://www.cs.umd.edu/class/spring2007/cmssc198N/>
- Announcements section in web site
- Quiz #1

Block Elements/Inline Elements

- Comparison
 - Block elements begin on new lines whereas inline elements don't
 - Block elements create larger structures (allow you to define the large structure of your document) whereas inline elements don't
- Block Elements Examples

Paragraphs (<p>), Headings, Lists, Tables, Division (<div>), Block Quotations, Preformatted Text (<pre>)
- Inline Elements Examples

Links (<a>), Images (), Line Breaks (
)
- Block elements may contain other block elements, inline elements, and data. Some block elements may not contain other block elements.
- Inline elements may contain inline elements and data.

Suggestions for Writing HTML Code

- Add the corresponding end tag immediately
- Use indentation
- Have a consistent style
- Use comments to separate sections of your code.
- Validate your code as you develop it.

Defining Your WAM Web Page

- As a student of the university you have a directory (folder) where you can place your html documents.
- Location of your folder:
 - Machine: wam.umd.edu
 - Login by using your directoryID/Password combination
 - Folder location: /pub/YOURDIRECTORYID
- Main html document should be named index.html
- Web Page Address: <http://www.wam.umd.edu/~YOURDIRECTORYID/>
 - Notice there is a ~ before your directory id
- **Windows Users** - Use F-Secure to transfer your document to wam
 - <http://www.helpdesk.umd.edu/topics/applications/ftp/f-secure/4313/>
- Mac Users – Use Fugu to transfer your documents to wam
 - <http://rsug.itd.umich.edu/software/fugu/>
- Demo

Googles Page Creator

- <http://pages.google.com/>
- You need a gmail account
- Provides free hosting
- Your address will be:
 - <http://YOURGMAILID/googlepages.com>

CSS (Cascading Style Sheets)

- Official W3C standard for controlling presentation
- Specification: <http://www.w3.org/TR/CSS21/>
- Style Sheets
 - Text file with rules. It includes no html.
 - Style sheets files use a .css extension
 - Allows you to apply typographic styles (font size, line spacing, etc.)
 - Allows you to apply spacing instructions
 - Allows you to have page layout control
 - Allows you to generate smaller html files by avoiding redundancy in style specification
 - Allows you to easily update a collection of pages by updating only a single file
- Why CSS? Demo

Rules

- Rule - Basic element of a style sheet
- Rule - describes the formatting associated with a page element
- Rule format

selector declaration

selector – identifies what should be styled in a web document (e.g., h1, p)
declaration – what and how that portion of the web document should be modified.

- declaration - consists of *property: value* pair(s) enclosed in { }
- Examples:

```
h1 {color: green}  
p {font-size: 10px,  
   color: red;  
}
```

- Notice there is a space after the colon (;)
- Popular properties – color, font-family, font-size, text-decoration
- HTML Dog CSS Properties –
<http://www.htmldog.com/reference/cssproperties/>

Types of Style Sheets

■ **Inline**

- ❑ Style information applied to specific tag (e.g., <p style=...”)
- ❑ Avoid if possible.

■ **Internal**

- ❑ Using the <style> tag in the header of the html document
- ❑ Convenient to provide own style to a specific page
- ❑ Example: internalStyle.html

■ **External**

- ❑ External style sheet which web pages link to
- ❑ Preferred approach
- ❑ Example: externalFile.html and externalFile.css

CSS

- Why cascading?
 - Rules can come from different sources (inline, external file, etc.). The final set of rules that apply to a document comes from cascading all the sources.
- Rule Conflict Resolution
 - To resolve conflicts, styles defined at a specific level override those set at a higher level
Example: you can set the color of body text to be blue but you can override to red the text in a list
 - When multiple style files are linked or imported the last will take precedence

CSS Validator

- <http://jigsaw.w3.org/css-validator/>
- Notice you have three choices
 - by URI
 - by File Upload
 - by direct input