

ANNOUNCEMENTS

- ❖ Instructor: Nelson Padua-Perez (nelson@cs.umd.edu).
- ❖ Class Web Site:
 - ❖ <http://www.cs.umd.edu/class/spring2008/cmssc198N/>
- ❖ No posting of code in the forum.
- ❖ Check class announcements daily.

HTML BASIC SKELETON

- ❖ An html document has two main parts.
 - ❖ **Header** – provides information about the document.
 - ❖ **Body** – contents of the page.
- ❖ **Example: BasicHTMLSkeleton.html**

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
    <title>Template</title>
  </head>

  <body>
    <!--HTML CODE HERE-->
  </body>
</html>
```

- Let's validate the above document

NESTEDTAGS/SPACES/COMMENTS

- ❖ Nested tags are possible but don't overlap sets of them. Avoid the following:

`<em><strong>Message</em></strong>`

- ❖ Browser Processing

- ❖ Multiple spaces are converted to one space.

❖ John Mary Peter

❖ John Mary Peter

- ❖ Line returns are ignored.

- ❖ Comments

- ❖ Represented by `<!-- -->` Note: (two sets of double -)

- ❖ Examples

- ❖ `<!--The html code example starts at this point-->`

- ❖ Comments can not be nested.

FREQUENTLY USED TAGS

- ❖ Heading tags
 - ❖ `<h1> text </h1>`
 - ❖ `<h2> text </h2>` ... and so on until `<h6> text </h6>`
 - ❖ Higher numbers imply smaller headers.
- ❖ Paragraph tag
 - ❖ `<p> paragraph </p>`
- ❖ Code – Use to define computer code
 - ❖ `<code> </code>`
- ❖ Horizontal Line - `<hr />`

FREQUENTLY USED TAGS

- ❖ Emphasis
 - ❖ `<em> text here </em>` *Text usually rendered in italics*
 - ❖ `<strong> text here </strong>` **Text usually rendered in bold**
- ❖ Super/Sub script
 - ❖ `<sub> text here </sub>`
 - ❖ `<sup> text here </sup>`
- ❖ Quotations
 - ❖ `<q> quote here </q>`
- ❖ Line Breaks
 - ❖ `<br />`
- ❖ Verbatim (text displayed exactly as it appears)
 - ❖ `<pre> text here </pre>`
- ❖ **Example: HtmlDoc.html**

HTML EDITORS

- ❖ Text Editor
 - ❖ Any text editor (e.g., wordpad, notepad, pico, etc.)
- ❖ HTML Editors
 - ❖ Utilities designed to write HTML.
 - ❖ Example: CoffeeCup HTML Editor
- ❖ Authoring tools
 - ❖ Frontpage
 - ❖ Dreamweaver – Fairly complex but powerful.
 - ❖ NVU – Free and available for (Windows, Linux, Mac) <http://www.nvu.com/>
- ❖ List of editors can be found at:
http://dir.yahoo.com/Computers_and_Internet/Software/Internet/World_Wide_Web/HTML_Editors/
- ❖ Recommended:
 - ❖ Komodo Edit: http://www.activestate.com/Products/komodo_edit

LISTS

❖ Unordered lists

- ❖ `<ul>` `</ul>` tags to represent beginning and end.
- ❖ `<li>` `</li>` to represent elements in the list.
- ❖ **Example: Lists.html**

❖ Ordered lists

- ❖ `<ol>` `</ol>` tags to mark beginning and end.
- ❖ `<li>` `</li>` to represent elements in the list.

❖ Definition lists

- ❖ Consist of terms and definitions like in a glossary.
- ❖ Tags - `<dl>` `</dl>`
- ❖ Terms specified using `<dt>` `</dt>` and definitions with `<dd>` `</dd>`

- ❖ **Example: Lists.html**

❖ Nested lists

IMAGE INCLUSION

- ❖ We can include an image using the img tag
- ❖ ``
- ❖ **Example: Image.html**
- ❖ Although the width and height attributes are not required they are highly recommended. (They can also be set through CSS).

LINKS

- ❖ Link – connection between web resources.
- ❖ Hypertext links are created using the `<a>` (anchor) tag.
- ❖ The link can be text :
 - ❖ `<a href="http://www.cnn.com">CNN Web Page</a>`
 - ❖ Notice that you **need to** specify the protocol (`http://`)
 - ❖ **Example: Links.html**
 - ❖ The URL can be absolute or relative.
- ❖ The link can be an image:
 - ❖ `<a href="http://www.umd.edu"></a>`

TABLES

- ❖ To define a table we use the `<table>` tag
 - ❖ Border attribute controls table's border.
 - ❖ By default borders are not visible.
- ❖ Basic tags are associated with tables
 - ❖ `<tr>` - defines a row.
 - ❖ `<td>` - defines a data element.
 - ❖ `<th>` - define a header data element.
 - ❖ `<caption>` - provides a caption for the table.
 - ❖ Must appear after the `<table>` tag.
 - ❖ Must be used only once.
- ❖ **Example: Tables.html**

CHARACTER ENTITY REFERENCES

- ❖ Special Characters can be specified by
 - ❖ Name specification - *&name;*
 - ❖ Numeric specification - *&#xxx;*
- ❖ Commonly used characters
 - ❖ *Copyright* ©
 - ❖ *Registered Trademark* ®
 - ❖ *&* &
 - ❖ *<* <
 - ❖ *>* >
 - ❖ *Non break space*
- ❖ **Example: CharacterReferences.html**
- ❖ Complete list at:
<http://www.w3.org/TR/html4/sgml/entities.html>

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 (not at the end).