SGG 3643 Programming III

HTML & CSS

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Introduction

- **H**yper **T**ext **M**arkup **L**anguage (HTML)
- Version: **HTML 4.01** / XHTML 1.0
- The most **basic** scripting language.
- HTML is a **markup language**, not a programming language.
- A markup language is a set of **markup tags** for describing web pages.
- World Wide Web Consortium (W3C) recommends lowercase attribute values in their HTML 4 recommendation.

Introduction

HTML Tags:

n   HTML markup tags are usually called HTML tags

n   HTML tags are keywords surrounded by **angle brackets** like <html>

n   HTML tags normally **come in pairs** like and

n   The first tag in a pair is the **start tag** (opening tags), the second tag is the **end tag** (closing tags)

n   Use **lowercase** for attribute names and attribute values (case-insensitive).

n   Newer versions of (X)HTML will demand lowercase attributes.

HTML

n The essentials tags:

<html>

<head>

<title>Greetings from the Web</title>

</head>

<body>

<p>Hello GIS!</p>

</body>

</html>
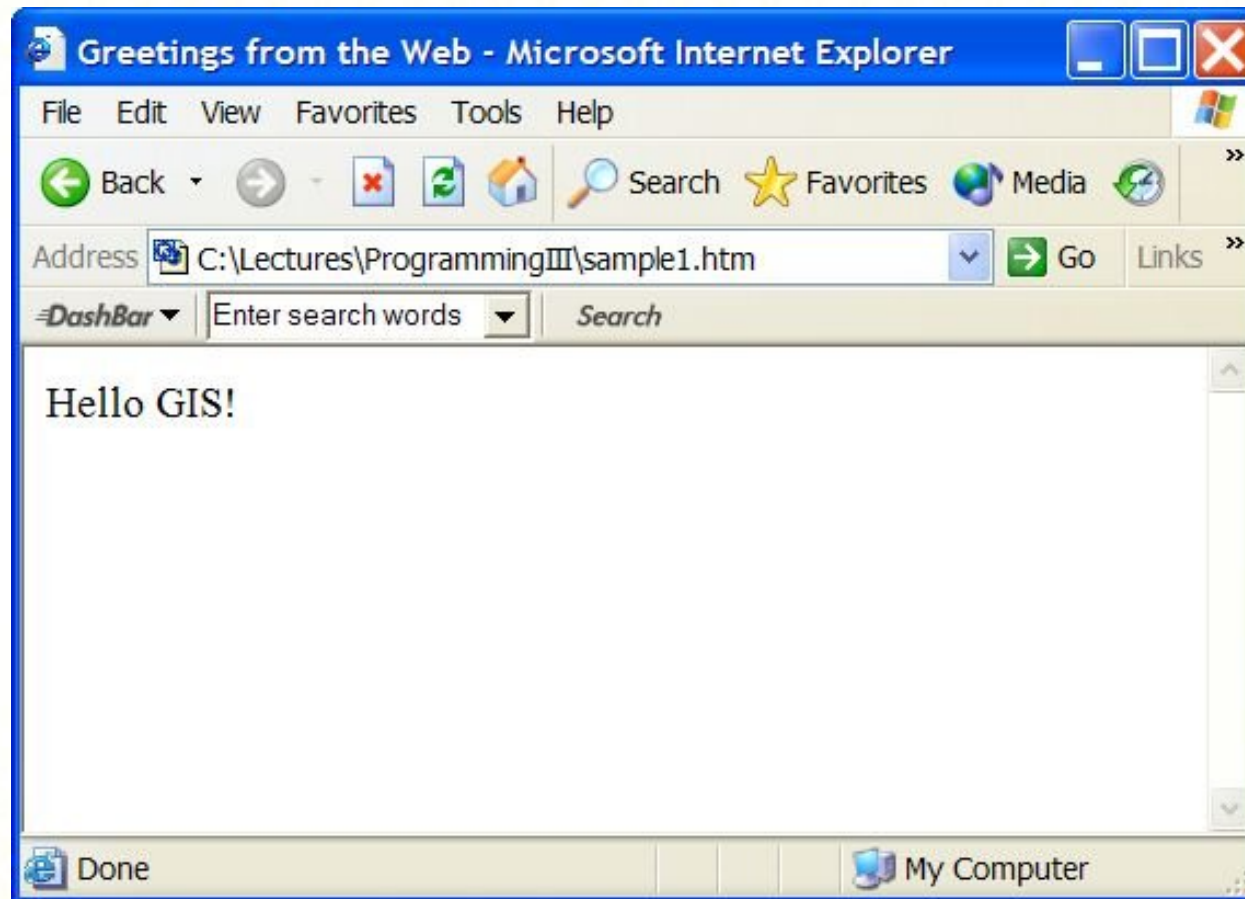
HTML

Basic Tags

- **<html></html>**
  Creates an HTML document

- **<head></head>**
  Sets off the title and other information that isn't displayed on the Web page itself

- **<body></body>**
  Sets off the visible portion of the document

Header Tags

- **<title></title>**
  Puts the name of the document in the title bar

Body Attributes

- **<body bgcolor=?>**
  Sets the background color, using name or hex value

- **<body text=?>**
  Sets the text color, using name or hex value

- **<body link=?>**
  Sets the color of links, using name or hex value

- **<body vlink=?>**
  Sets the color of followed links, using name or hex value

- **<body alink=?>**
  Sets the color of links on click

Text Tags

- **\<pre\>\</pre\>**
  Creates preformatted text

- **\<hl\>\</hl\>**
  Creates the largest headline

- **\<h6\>\</h6\>**
  Creates the smallest headline

- **\<b\>\</b\>**
  Creates bold text

- **\<i\>\</i\>**
  Creates italic text

- **\<tt\>\</tt\>**
  Creates teletype, or typewriter-style text

Text Tags II

- **<cite></cite>**
  Creates a citation, usually italic

- ****
  Emphasizes a word (with italic or bold)

- ****
  Emphasizes a word (with italic or bold)

- ****
  Sets size of font, from 1 to 7)

- ****
  Sets font color, using name or hex value

Links

- ****
  Creates a hyperlink

- ****
  Creates a mailto link

- ****
  Creates a target location within a document

- ****
  Links to that target location from elsewhere in the document

Formatting

- **<p></p>**
  Creates a new paragraph

- **<p align=?>**
  Aligns a paragraph to the left, right, or center

- **
**
  Inserts a line break

- **<blockquote></blockquote>**
  Indents text from both sides

- **<dl></dl>**
  Creates a definition list

- **<dt>**
  Precedes each definition term

Formatting II

- **<dd>**
  Precedes each definition

- **
**
  Creates a numbered list

- **
**
  Precedes each list item, and adds a number

- **
**
  Creates a bulleted list

- **<div align=?>**
  A generic tag used to format large blocks of HTML, also used for stylesheets

Graphical Elements

- **<img src="name">**
  Adds an image

  - **<img src="name" align=?>**
    Aligns an image: left, right, center; bottom, top, middle

  - **<img src="name" border=?>**
    Sets size of border around an image

- **<hr/>**
  Inserts a horizontal rule

  - **<hr size=?>**
    Sets size (height) of rule

  - **<hr width=?>**
    Sets width of rule, in percentage or absolute value

  - **<hr noshade>**
    Creates a rule without a shadow

Tables

- **<table></table>**
  Creates a table

- **<tr></tr>**
  Sets off each row in a table

- **<td></td>**
  Sets off each cell in a row

- **<th></th>**
  Sets off the table header (a normal cell with bold, centered text)

Table Attributes

- **<table border=#>**
  Sets width of border around table cells

- **<table cellspacing=#>**
  Sets amount of space between table cells

- **<table cellpadding=#>**
  Sets amount of space between a cell's border and its contents

- **<table width=# or %>**
  Sets width of table: in pixels or as a percentage of document width

Table Attributes II

- **<tr align=?> or <td align=?>**
  Sets alignment for cell(s) (left, center, or right)

- **<tr valign=?> or <td valign=?>**
  Sets vertical alignment for cell(s) (top, middle, or bottom)

- **<td colspan=#>**
  Sets number of columns a cell should span

- **<td rowspan=#>**
  Sets number of rows a cell should span (default=1)

- **<td nowrap>**
  Prevents the lines within a cell from being broken to fit

Frame

- **<frameset></frameset>**
  Replaces the <body> tag in a frames document; can also be nested in other framesets

- **<frameset rows="value,value">**
  Defines the rows within a frameset, using number in pixels, or percentage of w idth

- **<frameset cols="value,value">**
  Defines the columns within a frameset, using number in pixels, or percentage of width

- **<frame>**
  Defines a single frame - or region - within a frameset

- **<noframes></noframes>**
  Defines what will appear on browsers that don't support frames

Frame Attributes

- **<frame src="URL">**
  Specifies which HTML document should be displayed

- **<frame name="name">**
  Names the frame, or region, so it may be targeted by other frames

- **<frame marginwidth=#>**
  Defines the left and right margins for the frame; must be equal to or greater than 1

- **<frame marginheight=#>**
  Defines the top and bottom margins for the frame; must be equal to or greater than 1

Frame Attributes II

- **<frame scrolling=VALUE>**
  Sets whether the frame has a scrollbar; value may equal "yes," "no," or "auto." The default, as in ordinary documents, is auto.

- **<frame noresize>**
  Prevents the user from resizing a frame

Forms

§ For functional forms, you'll have to run a **CGI script**. The HTML just creates the appearance of a form.

- **<form></form>**
  Creates all forms

- **<select multiple name="NAME" size=?></select>**
  Creates a scrolling menu. Size sets the number of menu items visible before you need to scroll.

- **<option>**
  Sets off each menu item

- **<select name="NAME"></select>**
  Creates a pull down menu

- **<option>**
  Sets off each menu item

Forms II

- **<textarea name="NAME" cols=40 rows=8></textarea>**
  Creates a text box area. Columns set the width; rows set the height.

- **<input type="checkbox" name="NAME">**
  Creates a checkbox. Text follows tag.

- **<input type="radio" name="NAME" value="x">**
  Creates a radio button. Text follows tag

- **<input type=text name="Lot_Tanah" size=20>**
  Creates a one-line text area. Size sets length, in characters.

- **<input type="image" border=0 name="NAME" src="name.gif">**
  Creates a Submit button using an image

Forms III

- **<input type="submit" value="NAME">**
  Creates a Submit button

- **<input type="reset">**
  Creates a Reset button