Lab Accounts

• Student Web Server Accounts
  – Mapping web-server account to department student account
    • File Explorer: Tools ➔ Map Network Drive (pick drive W)
    • `\cs-websrvr.cs.usna.edu\www.mXXXXXX.it.cs.usna.edu$
    • Note $ on the end
    • Username: cs-websrvr\mXXXXXX
    • Need Account Password (from instructor)
  – URL for each student website on Department Web-Server is as follows:
    www.mXXXXXX.it.cs.usna.edu
    • where "XXXXXX", is the individual student's alpha number
4.1 Introduction / 4.2 Editing XHTML

- Extensible HyperText Markup Language (XHTML)
  - A markup language based on HTML
  - Separates document presentation from information
  - Standard defined by W3C
- XHTML documents
  - Source-code form
  - Text editor (e.g. Notepad, Wordpad, emacs, etc.)
  - .html or .htm file-name extension
  - Web server – stores XHTML documents
  - Web browser – requests XHTML documents

Basic Syntax

```html
<a href="links.html"> Useful links </a>
<br />
```
4.4 W3C XHTML Validation Service

• Validation service (validator.w3.org)
  – Checking a document’s syntax
  – Provide URL or upload file
Block vs. inline tags in XHTML

- **Block tags**
  - Start their content on a new line

- **Inline tags**
  - Their content continues on the same line

- **Restrictions**
  - Inline tags (and text) must be nested inside block tags, not directly under `<body>` or `<form>`
  - Block tags cannot be nested inside inline tags

**ILLEGAL:** `<b>` `<h1>` Foo `<h1>` `<b>`

---

4.5 Headers – h1 to h6

```xml
<html version="1.0" encoding="utf-8">
  <head>
    <title>Headings</title>
  </head>
  <body>
    <h1>Level 1 heading</h1>
    <h2>Level 2 heading</h2>
    <h3>Level 3 heading</h3>
    <h4>Level 4 heading</h4>
    <h5>Level 5 heading</h5>
    <h6>Level 6 heading</h6>
  </body>
</html>
```
4.6 Linking

- Hyperlink
  - References other sources such as XHTML documents and images
  - Both text and images can act as hyperlinks
  - Created using the `<a>` (anchor) element
    - Attribute `href`
      - Specifies the location of a linked resource
    - Link to e-mail addresses using `mailto:` URL
Relative vs. Absolute Links

• Absolute links
  <a href="http://www.cs.usna.edu/textbooks.htm">Textbooks</a>
  <a href="http://www.nytimes.com">NYT</a>

• Relative links
  <a href="textbooks.htm">Textbooks</a>
  <a href="../textbooks.htm">Textbooks</a>
  <a href="../common/dogs.html">More on dogs</a>

4.7 Images

picture.html
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Navigation Bar</title>
</head>
<body>
<p>
<a href="links.html"><img src="buttons/links.jpg" width="65" height="50" alt="Links Page"/></a>

<a href="list.html"><img src="buttons/list.jpg" width="65" height="50" alt="List Example Page" /></a>

<a href="contact.html"><img src="buttons/contact.jpg" width="65" height="50" alt="Contact Page" /></a>

<a href="table1.html"><img src="buttons/table.jpg" width="65" height="50" alt="Table Page" /></a>

<a href="form.html"><img src="buttons/form.jpg" width="65" height="50" alt="Feedback Form" /></a>
</p>
</body>
</html>
Exercise #1 – “Hello World”

• Create a “Hello World” page that just displays “Hello World”

Exercise #2

• Add to the Hellow World page a link to the IT350 course webpage, and a link to the email address of the instructor
4.8 Special Characters and More Line Breaks

- Character entity references (in the form &code;)
- Numeric character references (e.g. &#38;)
- del
  - Strike-out text
- sup
  - Superscript text
- sub
  - Subscript text
- <hr />
  - Horizontal rule (horizontal line)
4.9 Lists

- Unordered list element `ul`
  - Creates a list in which each item begins with a bullet symbol (called a disc)
  - `li` (list item)
    - Entry in an unordered list

- Ordered list element `ol`
  - Creates a list in which each item begins with a number

- Lists may be nested to represent hierarchical data relationships
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For business

For pleasure

Programming

XML

Java

XHTML

Scripts

New languages

Around the clock news

Search engines

Shopping

Around the clock news

Search engines

Shopping

Programming

XML

Java

XHTML

Scripts

New languages

Links

Keeping in touch with old friends

It is the technology of the future!

The Best Features of the Internet

You can meet new people from countries around the world.

You have access to new media as it becomes public:

- New games
- New applications
  1. For business
  2. For pleasure
- Around the clock news
- Search engines
- Shopping
- Programming
  1. XML
  2. Java
  3. XHTML
  4. Scripts
  5. New languages
- Links
- Keeping in touch with old friends
- It is the technology of the future!
Web Resources

- www.w3.org/TR/xhtml11
- www.xhtml.org
- www.w3schools.com/xhtml/default.asp
- validator.w3.org
- hotwired.lycos.com/webmonkey/00/50/index2a.html
- wdvl.com/Authoring/Languages/XML/XHTML
- www.w3.org/TR/2001/REC-xhtml11-20010531