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.it350.cs.usna.edu$
    - Note $ on the end
    - Username: USNA\mXXXXXX
  - URL for each student website on Department Web-Server is as follows:
    - `www.mXXXXXX.it350.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 />
```

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Example

main.html
(1 of 1)

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

```
<html xmlns="http://www.w3.org/1999/xhtml">
  <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
<!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">

<head>
  <title>Navigation Bar</title>
</head>

<body>
  <p>
    <a href="links.html" title="Links Page">
      <img src="buttons/links.jpg" width="65" height="50" alt="Links Page" />
    </a>
  </p>

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

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

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

  <p>
    <a href="form.html" title="Feedback Form">
      <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” as a header

Exercise #2

- Add to the Hello 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
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.

---

This starts a nested list, which uses a.

---

This modifies the bullet. The list ends when you close the <li> tag.

---

New games.
For business
- Around the clock news
- Search engines
- Shopping

For pleasure
- New applications

Programming
- XML
- Java
- XHTML
- Scripts
- 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
- wdv1.com/Authoring/Languages/XML/XHTML
- www.w3.org/TR/2001/REC-xhtml11-20010531