IT350 Web and Internet Programming

**XHTML vs. HTML**

**Web Markup Languages**

- HTML 2.0
- ...  
- HTML 4.01
- XHTML 1.0
- XHTML 1.1
- XHTML 2.0
- HTML 5
XHTML: Differences from HTML (part 1)

- Documents must be "well-formed"
  1. All start tags must be closed
  2. All tags must properly nest
XHTML: Differences from HTML (part 2)

- Tag and attribute names must be lowercase

- Attribute values must be double-quoted

- Use `id` instead of `name`
  
  `<a name=bottom> Stuff </a>`
  
  `<a id="bottom"> Stuff </a>`
  
  `<h1 id="ships"> … </h1>`

XHTML: Differences from HTML (part 3)

- Many “style” tags/attributes removed

http://webdesign.about.com/od/htmlxhtmltutorials/l/bltags_deprecat.htm

- What to do?
XHTML: Differences from HTML (part 4)

- Frames allowed in XHTML 1.0...
  But removed in XHTML 1.1

- A few more technical differences…
  - See http://www.w3.org/TR/2000/REC-xhtml1-20000126/#diffs

Exercise #1 – Correct any invalid XHTML syntax

```xml
<?xml version = "1.0" encoding=utf-8 ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
  "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<!-- An example file
<!-- Our first Web page  -->
<html xmlns = "http://www.w3.org/1999/xhtml">

<body>
  <h1> Welcome to <b>IT350!</b> </h1>
  <h2> Today’s Agenda </h2>
  <li> XHTML
  <li> JavaScript
</body>
</html>
```
Exercise #2 – Correct any invalid XHTML syntax

```xml
<?xml version = "1.0"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
    "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns = "http://www.w3.org/1999/xhtml">
    <title>Internet and WWW How to Program - Welcome</title>
    <body>
        <img src = "xmlhttp.jpg" height = "238" width = "183" />
        <h1 align="center">Under construction</h1>
    </body>
</html>
```

Exercise #3 – Correct any invalid XHTML syntax

```xml
<?xml version = "1.0"?>
<html xmlns = "http://www.w3.org/1999/xhtml">
    <head>
        <title>Internet and WWW How to Program - Links</title>
    </head>
    <body>
        <h1>Here are my favorite links</h1>
        <p><a href = "http://www.yahoo.com">Yahoo!</a></p>
        <p><a mailto = "webmaster@ussmichigan.org">Webmaster</a></p>
    </body>
</html>
```
Exercise #4 – Correct any invalid XHTML syntax

```xml
<?xml version = "1.0"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
 "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>	<title>Best features of the Internet</title>
</head>
<body>
<ul>
<li>Meet new people from around the world.</li>
<li>Access to new media as it becomes public:</li>
</ul>
<ul>
<li>New games</li>
<li>New applications & software</li>
</ul>
<li>Search engines</li>
</body>
</html>
```