More about HTML

Digging in a little deeper



Structural v. Semantic Markup

- Structural markup is using to encode information about the structure of a document. Examples: <heading>, <footer>, <div>, and
- Semantic markup means using tags that add meaning to the content. Examples: citations, acronyms, quoted text, lists, emphasized text

Structural markup such as <div> delineate major sections of the document and are also *block-level* elements that sit on their own line.

Semantic markup such as <cite> add extra information without altering the structure of a document, and may be either *inline* or *block* elements.



An Example

• Which tags are *structural*, and which are *semantic*?:

```
<html>
     <head> <title>Joke Page</title> </head>
     <body>
     <header><h1>My Favorite Joke</h1></header>
     <div>
        What did the fish say when he <em>bumped</em>
his <strong>head</strong>?
        <strong>Dam!</strong>
     </div>
     </body>
</html>
```



An Example

- Structure and semantics?
 - This is a paragraph of information
 - <h1> This is a heading (in this case, heading level 1)
 - This information should be emphasized
 - Emphasize this information as strongly as possible
- Notice how each of these tags gives extra information about the text they enclose.



So... What about Presentation?

- Semantic markup gives meaning to the various pieces of content on a web page.
- Semantic markup does not directly define how the content will appear
- Defining how a page will display in a view is done using Styles
- Styles "connect" to the semantic markup to define how an item will appear



A Brief Style Example

```
<html>
  <head>
       <title>A Page with Style</title>
       <style type="text/css">
               p {color: blue;
                  font-family: Arial, san-serif;
                 font-size: 24pt;
       </style>
   </head>
   <body>
       <h1>A style example</h1>
       Secause of the style definition, any text in a
  paragraph tag will display in blue, using an Arial font with
   sized at 24 points tall.
       </body>
</html>
```



More on Styles

- Styles give us extensive control over the presentation of our page's content
- Styles also allow us to keep the *presentαtion* of the information separate from the actual *content*
- We will discuss styles in detail as we continue in this course



More Semantic Markup Tags Unordered Lists

- Lists allow us to present information in a structured and ordered method
- The most common list is an unordered list. This frequently appears like a traditional "bullet" list
- Unordered lists have two parts:
 - An outer set of tags that indicate that this content is a list of information (the and
 - An inner set of tags that define each item in the list (the and
 tags)



Unordered Lists

For example:

```
"

    Apples
    Pears
    Cherries

...
```

- Would display as:
 - Apples
 - Pears
 - Cherries



Ordered Lists

- Ordered lists are similar to unordered lists
- Ordered lists normally display using numbers instead of "bullet" characters
- For an ordered list, you use the and tags in place of the and tags
- Like the unordered list, you use the and
 tags to indicate an item in the list



Ordered Lists

• For example:

```
"

    Apples
    Pears
    Cherries

...
```

- Would display as:
 - 1. Apples
 - 2. Pears
 - 3. Cherries



Formatting a List

- The default for an *unordered* list is a bullet list
- The default for an ordered list is a numbered list
- How the numbers or bullets appear even if they appear can all be controlled using styles
- Lists are a very powerful tool in your web design arsenal.
 Later in this course, we'll show you how to combine lists with CSS styles to create a tabbed navigation system



HTML Comments

<!-- this is an HTML comment -->

- Note the double dashes and spaces
- Won't validate if not formatted just right
- Use them and your HTML whitespace for readability!



More Structure...

- <div>
 - "Logical division"
 - Block-level
 - Used for breaking your content into discrete chunks, structurally. Very useful later on.
-
 - Inline
 - Creates a section of content that spans some smaller piece of a larger chunk, like a



More structure...

- HTML5 has introduced a bunch of structural tags for further blocking of content
 - <main>
 - <article>
 - <aside>
 - <figure>
 - <caption>
 - <header>
 - <footer>
 - <nav>
- Use them as they make sense!



Hypertext links

- So far, we've only been working with a single web page
- A web site, however, is a collection of web pages that relate to each other
- To "jump" from a page to another page requires the use of an anchor tag which will create a hypertext link. Here's an example that links to a web site on another server:

```
<a href="http://www.rit.edu">RIT Main Page</a>
```

- Note that if the page is on another server, we need to use the http:// protocol.
- The above URL to RIT's home page is an *αbsolute* URL



Connecting with Other Web Pages

- The anchor tag is very easy to use if you are connecting with pages on other servers.
- Your web site, however, will most likely have many pages all residing on the same server in a directory structure
- Learning how to specify documents in directories on a Unix

 or, really, any server requires that you understand the idea of relative addressing
- Addresses to files are also called *pαths*



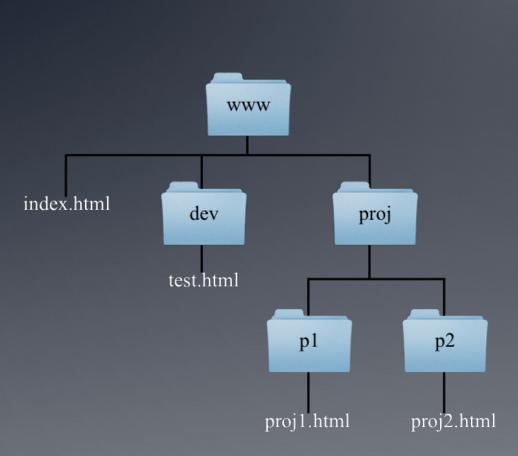
Relative addressing to a file in the same folder

- This first case is the simplest. If a file is in the same folder, we can link to it just by using the file name.
- Example: if we have a page named proj1.html, and we want to link it to a page named bio.html that is located in the same folder, we would use the following HTML:

Bio Page



Relative addressing to a file in a sub-folder



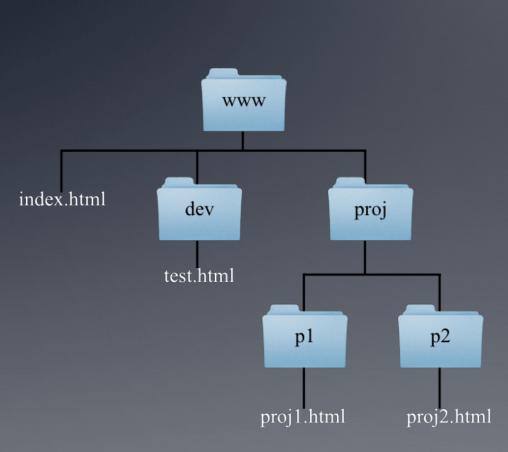
- For this next case, we want to link to a file that is located several folders "down"
- If we want to link index.html to proj1.html we will need to include the names of the folders in our path.

• See HTML below:

P1



Relative addressing to a file that is located "up" one or more levels



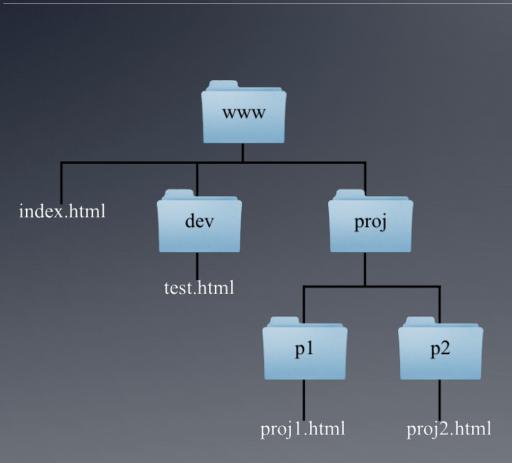
- For this next case, we want to link proj1.html to index.html, which is located two folders "up"
- To move "up" one level, we use
 ".." in our file path. To move up
 two levels, we use "../../"

• See HTML below:

P1



Relative addressing to a file that is located in a "sibling" directory



- For this next case, we want to link proj1.html to test.html, which is located two folders "up", and one folder "down"
- To move "up" the 2 levels, we use ".../" in our file path.
 To move back down, we use the name of the folder "dev/",
 followed by the name of the file we want to link to.
- See HTML below:

P1



Some path notes

- Don't start a path with /
 - This goes to the root (usually WAY above your user account)
- Remember rules for filenames in your paths
 - No spaces
 - No special characters (?, !, *, etc.)
 - Avoid caps (case-sensitive)



And now...

Do the ICE!

