CS 416 Web Programming

HTML Basics cont. - links, tables

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Agenda

- Continue crash course in HTML
 - Hyperlinks
 - Tables

Hyperlinks

- Hyperlink is a connection to a URL
 - Link can be within page, local page, or external site
- Specified using ANCHOR tags <a> and
- The link itself can be any HTML content specified between the open and close tags
- Must have an HREF attribute that specifies the associated URL/Web address
-
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 <h1>Local Page</h1>

Linking within a page

- Anchor tags can also point to specific places within a page
- Specify a location with the *id* attribute:

```
<div id="HelpSection">some text </div>
```

 To link to that section you use the # with the section's id

```
<a href="#HelpSection">help</a>
<a href="mypage.html#HelpSection">help</a>
```

Grouping elements

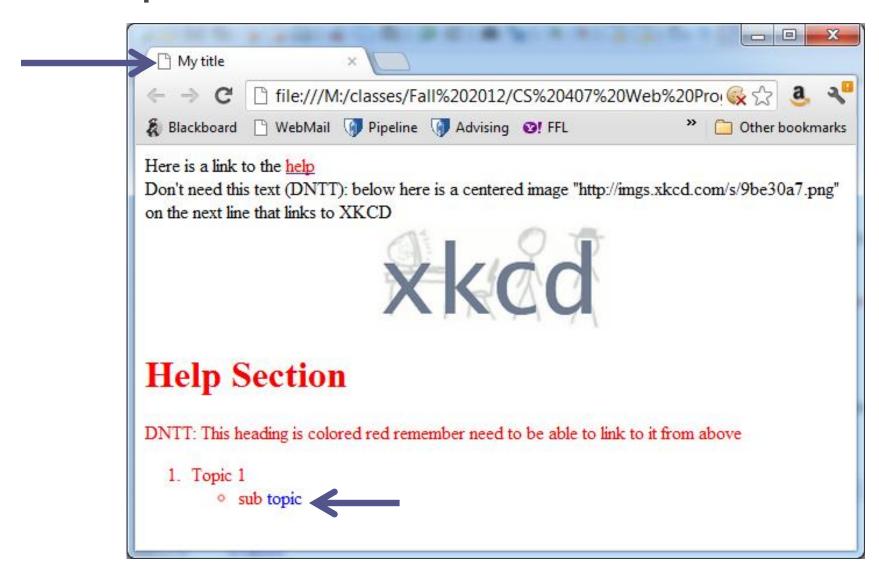
</div>

- tag allows you to change style of segment of text SomeBlue text
- The <div> tag is similar to the tag except that it allows you to apply style to a group of elements together and separates them as if they were a paragraph

```
<div style="text-align:right">
    <h1>...
    <img...>
```

• It is useful with images as the style alignment in the tag doesn't have an effect

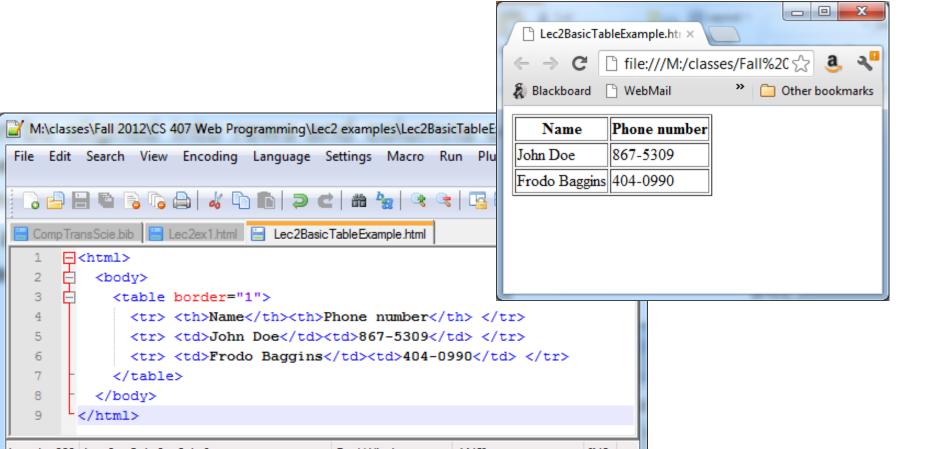
Decompose



Tables

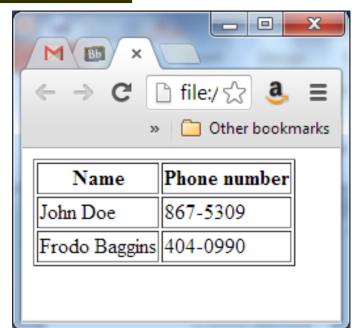
text can be aligned into rows and columns using a TABLE element

- and encapsulate the table data
- and encapsulate a row within the table
- and encapsulate the headers of a table
- and encapsulate table data within a row (i.e., a column entry)

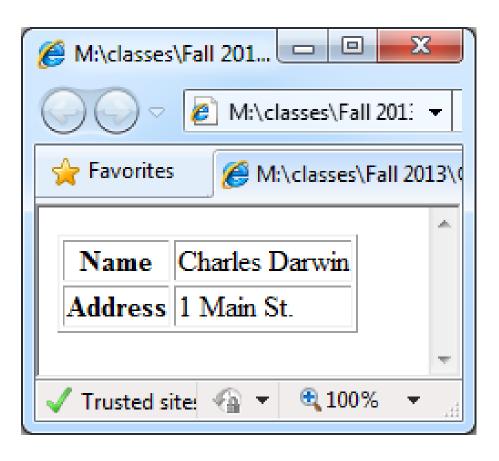


Basic table

```
M (Bb)
<html>
 <body>
   \langle t.r \rangle
      <th>Name
      Phone number
     \langle t.r \rangle
      John Doe
       867 - 5309 
     \langle t.r \rangle
      Frodo Baggins
       404 - 0990 
     </body>
</html>
```



Decompose



Tables for alignment

```
6.
    <head>
      <title> Demo of tables </title>
    </head>
10.
    <body>
11.
      12.
        13.
         <img src="creighton.gif" alt="Creighton logo" />
         <a href="http://www.creighton.edu"><b>Creighton University</b></a>
14.
15.
             <br />
             2500 California Plaza<br />
16.
17.
             Omaha, NE   68178
18.
        19.
      20.
     </body>
21. </html>
```

tables are commonly used to align elements in the page here, an image is

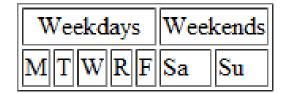
aligned to the left of

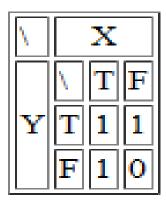
some text



Complex tables

More complex relationships are common





Column spanning

For table data (or header) to span more than one column the **colspan** attribute is set to the number of columns to span

That row () will need to have that many fewer cells specified

Column spanning Ex.

```
 1 - 1 
  1 - 2 
  1 - 3 
2-1
  2 - 3
```

Row spanning

For table data to span more than one row the **rowspan** attribute is set to the number of rows to span

The spanned rows () will need to have that many fewer cells specified

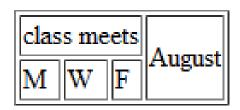
Row spanning Ex.

```
            1-1
            /td>

            1-1

            >
            >
        <  <td>1-1
            1-2
            1-2
            1-1
            1-2
            1-2
            1-2
            1-1
            1-2
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            1-2
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            1-1
            1-1
            1-1
             1-1
             <t
```

Example 1



4 columns by 2 rows

Only 2 cell entries since first "cell" takes up 3

Note no entry for 4th cell since already specified

Example 2

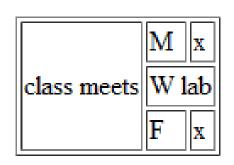


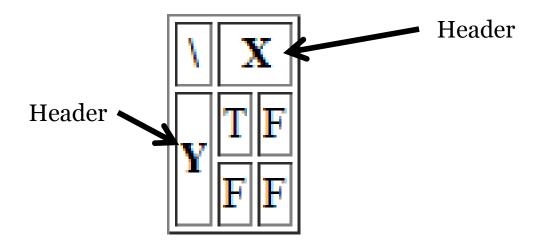
Table is 3 columns by 3 rows

```
class meetsMx
W lab
Fx
```

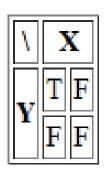
Only 1 cell specified since first specified above and this cell is 2 wide

Only 2 cells specified since first specified above

Decompose



Analysis



<th></td><th colspan="2">X Y TF FF

Table is 3 columns by 3 rows

First row has 2 cells specified since second cover 2nd and 3rd cells

3 cells are specified with the first spanning 2 rows

2 cells are specified since value of 1st cell in row was specified earlier