# CGS 3175: Internet Applications Fall 2009

Advanced XHTML & CSS - Tables

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# **Designing Interface Components**

- In HCI and interface component is what the user utilizes to interact with your webpage. In a sense, an interface component encompasses all the supporting elements for your page's content: links, menus, forms, tables, and so on.
- We'll be examining how these components should be written in XHTML to be valid and accessible, and how to style them with valid CSS in a variety of ways to meet the design needs of your projects.
- We'll start with tables.



- As we've mentioned before, in the past, tables were a widely abused technique for creating page layouts full of presentation markup. CSS has provided a much cleaner and more adaptable method for accomplishing page layouts, so do not use tables as a technique for designing page layouts.
- However, tables should still be used for their designated purpose laying out grids of data in rows and columns in the same manner in which it appears in spreadsheets or other applications where tabular data is required.



- Tables in XHTML work much the same way they do in a spreadsheet or word processor application and resemble a matrix (grid).
- The entire table in XHTML is surrounded by the start table tag and the end table tag . You choose how many rows and columns you need for your table.
- The main body of a table is made up of rows and columns, like a matrix.
- In XHTML, you construct your tables one row at a time. Each row begins with an opening table row 
   table row within that row contains the open and end tags for the table data element.



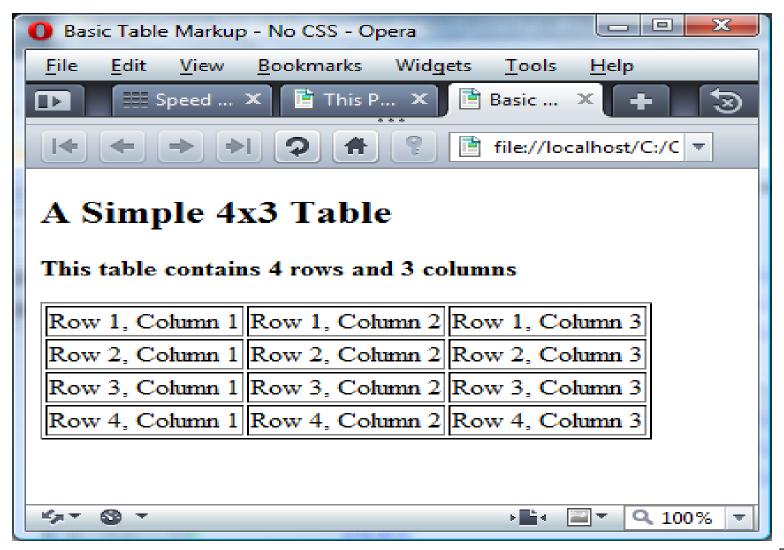
- After the last element is closed for the last column, the row ends with the ending
- This is the definition for a row that contains three columns.

```
     column 1 

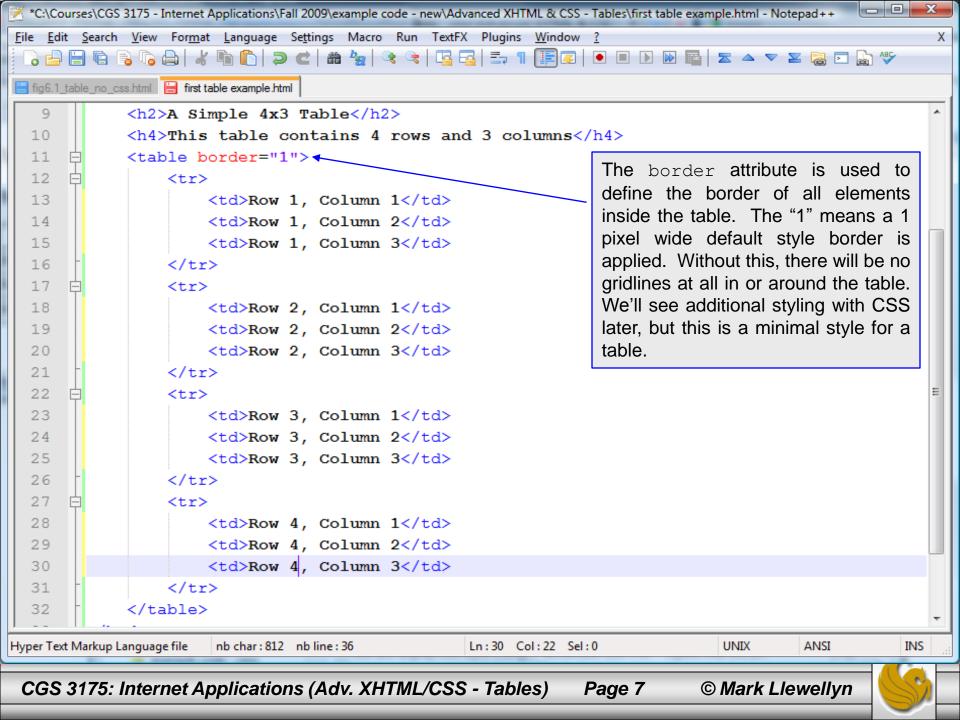
   column 3
```

• Shown on the next page is the markup for a simple XHTML table.









# Formatting Tables

- Labeling table sections with <thead>, <tfoot>, and .
- The <thead>, <tfoot>, and can be used to define logical sections of a table. These elements are used to group the various rows in a table into a header (<thead>), body (), and footer (<tfoot>) section. While not heavily used in practice today these elements will become more important as new user agents become more dependent on document structure, so you want to be sure to use them when necessary. For example, talking screen readers.
- These elements are optional, but when used must appear in the following order: <thead>, <tfoot>, , The <tfoot> element must appear after the ending tag for the </thead> and before the open tag for the element, even though its content will be displayed at the bottom of the table in a browser.



# Formatting Tables

- The various table elements have a number of attributes that can be used to customize the look and layout of tables, rows, and cells.
- As with other elements, XHTML Strict does not allow all of the formatting attributes that Transitional and Frameset allow.
- The next few pages illustrate the most common attributes that can be used with the , , and elements.



#### Element Attributes

summary Text description of the table. Useful for non-visual browsers.

width Sets the width of the table.

Values: Percentage or pixels

Sets the width of the border around the table.

Values: A value of 0 makes the border invisible. An integer value greater than 0 will result in a

border of that number of pixels.

cellpadding Sets the amount of space between the border of the table cell and the data contained in the cell.

Values: Percentage or pixels

cellspacing Sets the amount of space between cells.

Values: Percentage or pixels

frame Defines which sides of the table will be displayed.

Values: above, below, border, box, lhs, bsides, rhs, vsides, void

rules Defines which rule lines will be displayed.

Values: all, cols, groups, none, rows



## And Element Attributes

<u>Name</u>	Description and Values
align	Horizontal alignment of data in a cell
	Values: left, center, right, justified
valign	Vertical alignment of data in a cell
	Values: top, middle, bottom
rowspan	Number of rows a cell spans
	Values: integer greater than 1 and less than or equal to the total number of rows in the table
colspan	Number of columns a cell spans
	Values: integer greater than 1 and less than or equal to the total number of columns in the table
abbr	Used for an abbreviated version of the content of the cell
axis	Used to assign a cell to a category group
headers	List of cells that provide header information for the current cell based on the values of the id
	attributes of the header cells. This list is space delimited.
scope	Provides information about which cells the current header cell provides header information for
	Values: col, colspan, row, rowspan



### Element Attributes

#### **Description and Values Name**

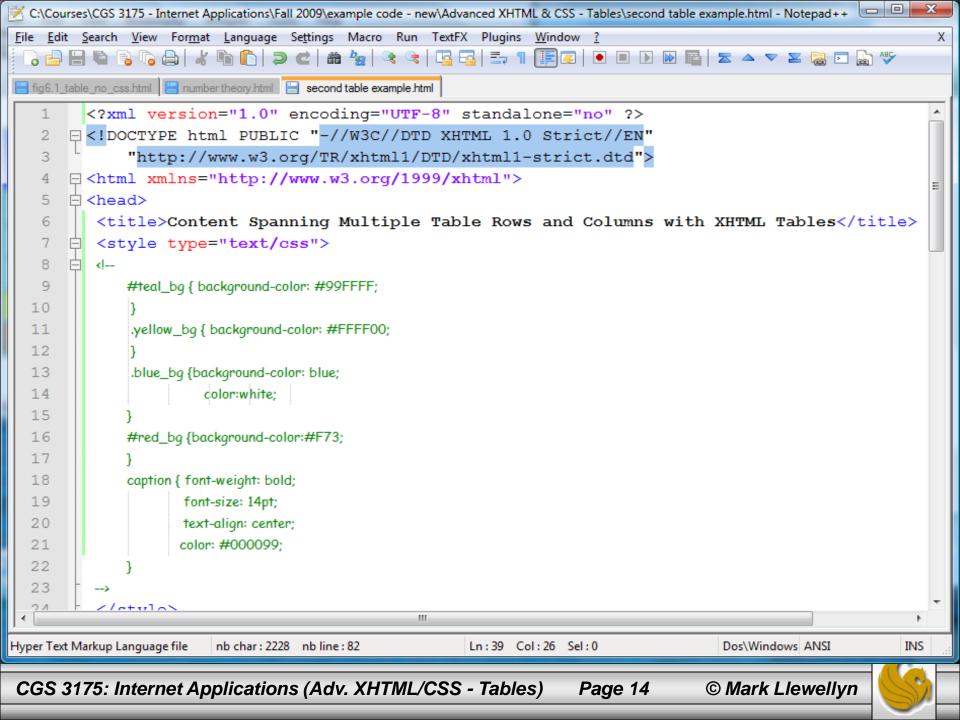
align	Horizontal alignment of data in all cells in a row Values: left, center, right, justified
valign	Vertical alignment of data in all cells in a row Values: top, middle, bottom

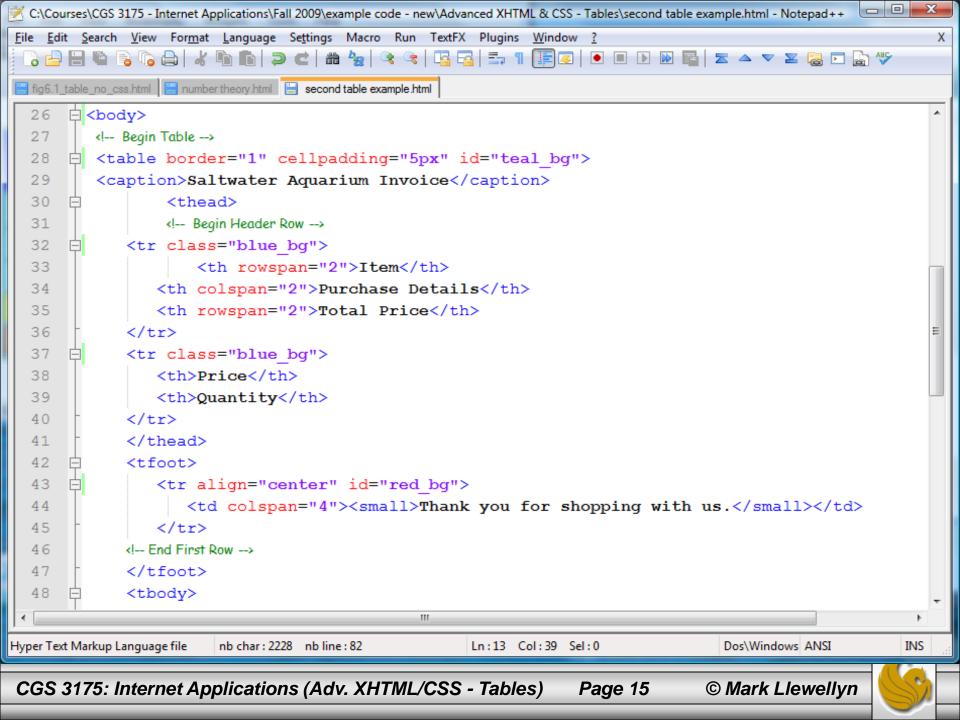


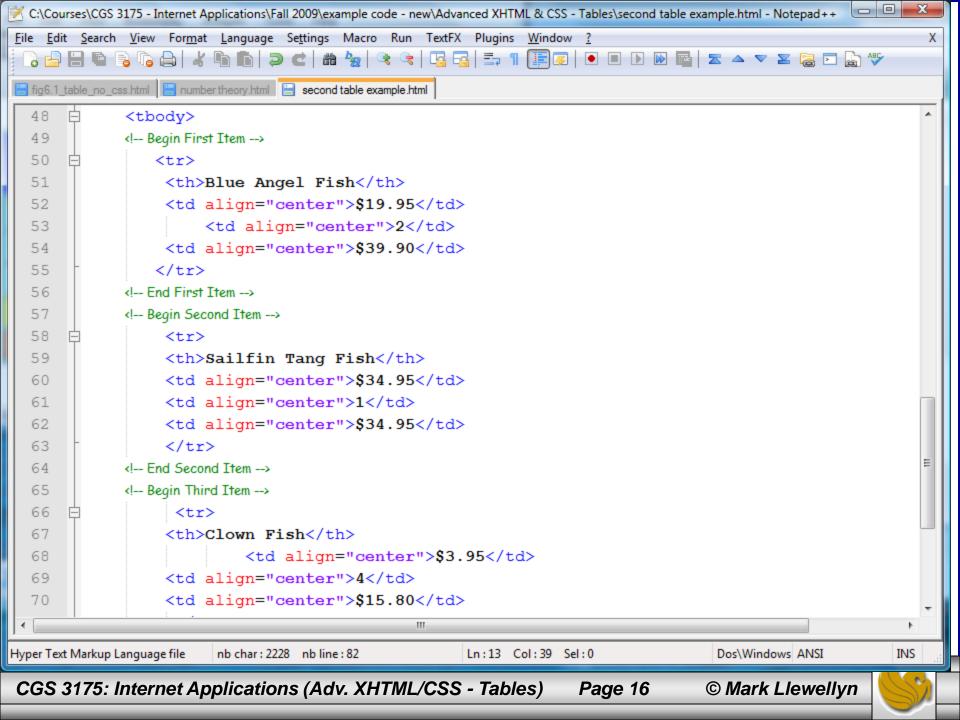
# XHTML Table – Examples

- For our second table example, we'll have content that spans multiple rows and columns.
- As with any skill, the best way to master the skill is to practice, practice, practice, so I encourage you to try an develop some additional tables on your own. I've put a couple of practice problems at the end of this set of notes for you to try.









```
71
               72
          <!-- End Third Item -->
 73
          <!-- Begin Invoice Total -->
 74
              75
              <b>TOTAL</b>
 76
              <b>$89.75</b>
               77
 78
          <!-- End Invoice Total -->
 79
          80
        81
      </body>
 82
       </html>
                                    Ш
Hyper Text Markup Language file
                  nb char: 2215 nb line: 82
                                         Ln:82 Col:8 Sel:0
                                                                Dos\Windows ANSI
                                                                                INS
```

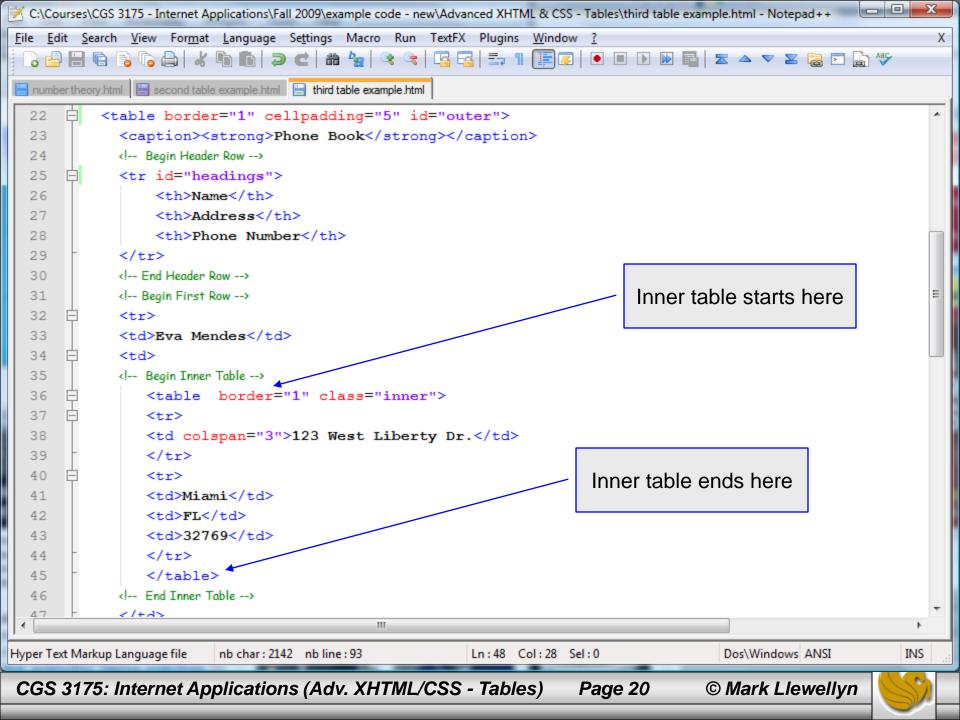


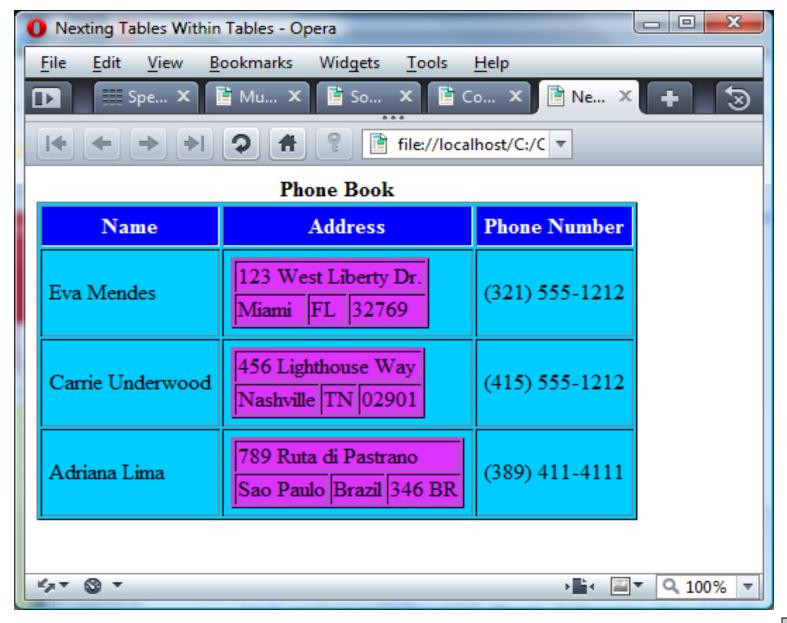


# XHTML Table – Examples

• The third table example illustrates a nested table (a table within a table).



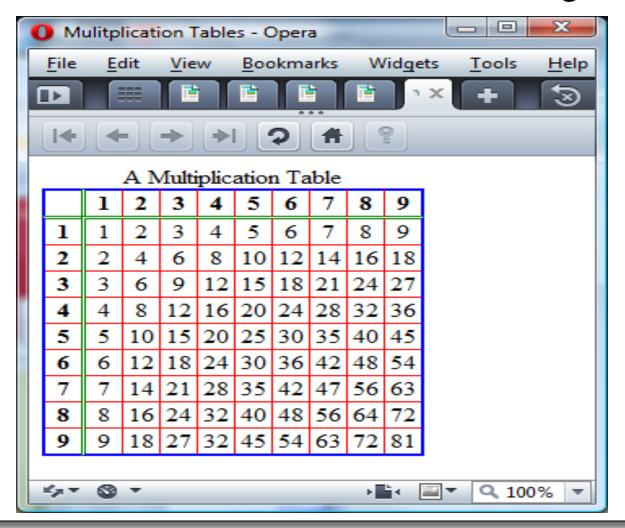






#### **Practice Problems**

1. Create a table that looks like the following:



#### **Practice Problems**

2. Create a table that looks like the following:

