HTML Tables

Organizing Page Layout and Displaying Page Data

HTML Tables

- Table are a way of organizing your pages and for displaying page data
- Are simple in the fact there are only a few html tags to know:
 - >
 -
 - ►
 - ► <</p>
 - > <caption>
- Some other tags more for grouping and styling(not required in this course):
 - <colgroup> and <col>
 - < thead>, , <tfoot>
 - If curious check out:
 - http://www.w3schools.com/tags/tag_colgroup.asp
 - http://www.w3schools.com/tags/tag_tbody.asp

Why Use Tables for Page Layout?

Advantages

- Fairly simple to layout pages
- Pre-dates
 Cascading Style
 Sheets (but will support them)
- Works across all browsers from the Web's inception (not really an issue anymore)

Disadvantages

- For page layout, designer must edit every page to alter site (does not cascade)
- Some effects not possible
- "dated" appearance (looks like the 1990s)
- > HTML can become fairly complex

Table Tag -

- Denotes the start of a table
- Supported attributes:
 - width : defines how wide you want the table to be on the page
 - encouraged use % instead (better scaling) of pixels (though they will work too)
 - align (left, center or right) defines alignment for whole table (NOT the content of the table)
 - bgcolor : describes the background colour for the table
 - border : takes a number which is the number of pixels wide you want the border to be
 - cellpadding : Specifies the space between the cell walls and contents
 - cellspacing : Specifies the space between cells

Note: height attribute is not supported

- > though was originally
- > table content will dictate its height

Table Row Tags

- Defines the start of a row in a table
- Must exist inside tags
- Supports attributes:
 - align : horizontal alignment: left, center, right, or justify
 - valign: vertical alignment: top, middle or bottom
 - bgcolor : will define a background color for the whole row

Table Data Tags

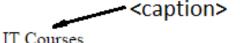
- Defines the a cell in a table
- Must exist inside tags
 - (i.e. exist inside exist in)
- Supports attributes:
 - align : same a
 - width:column width sized to fit (pixels) or can specify size relative to parent element
 - valign: vertical alignment to top, middle or bottom of the cell
 - bgcolor : will define a background color for a single cell
 - colspan : takes a number representing the number of columns you want the cell to "span"
 - rowspan : takes a number representing the number of rows you want the cell to "span"

Table Header Tags

- Defines the a "header" cell in a table
 - Similar to the tag, except by default the header cell is bold'ed and center'ed
- Still Must exist inside > tags
 - (i.e. > exist inside > exist in)

Table Caption Tag <caption>

Give a caption for a table
Must occur the next line after the tag



| Course Code | Course Title | |
|-------------|--------------------------------|--|
| WEBD2201 | Web Development - Fundamentals | |
| MATH1100 | Mathematics for I.T. | |

HTML Table Making Strategies

- Be sure to draw the table you are creating by hand, and number each cell
 - It is tough to know what you are working towards if you do not do this
- Be sure to turn your table borders on
 - This makes it easier to see if something is broken, and more importantly where is it broken
 - Turn them off (i.e. set them to "0") when your table is set up correctly

Simple Table Example

```
row 1, cell 1
  row 1, cell 2
 row 2, cell 1
  row 2, cell 2
```

Rendered in the browser as:

| row 1, cell 1 | row 1, cell 2 |
|---------------|---------------|
| row 2, cell 1 | row 2, cell 2 |

Uneven Number of cells

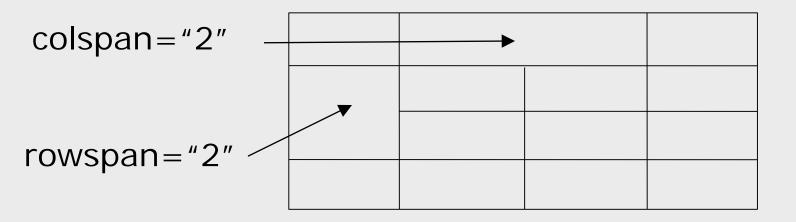
```
row 1, cell 1
   row 1, cell 2
   row 1, cell 3
 row 2, cell 1
   row 2, cell 2
 row 3, cell 1
```

Rendered in the browser as:

| row 1, cell 1 | row 1, cell 2 | row 1, cell 3 |
|---------------|---------------|---------------|
| row 2, cell 1 | row 2, cell 2 | |
| row 3, cell 1 | | |

Spanning Cells

- To fix the uneven number of cells you can span cells
- Across columns
 - colspan="n", where n is the number of columns
 - Reduce number of cells in row accordingly
- Across rows
 - rowspan="n", where n is the number of rows



Colspan and Rowspan

When you "span" multiple rows and columns with the rowspan and colspan attributes on a cell(ie. the tags)

```
        vidth="20%">r1c1

    vidth="70%">r1c2

    vidth="70%">r1c2

    vidth="10%">r1c3

        vidth="10%">vidth="10%"

        vidth="10%"
        vidth="10%"

        vidth="10%"
        vidth="10%"
```

| r1c1 | row 1, cell 2 | r1c3 |
|------|---------------|------|
| r2c1 | | |
| r3c1 | row 2, cell 2 | |

Width Attributes

- The browser will give equal shares to each column in the table unless you specify something else
- You can use width attribute to set column widths using:
 - 1. Percentages (recommended for scalability)or
 - 2. Pixels (not recommended)

Try to have your percentages add up to 100%

Colspan and Rowspan

 You can "span" multiple rows and columns with the row and colspan attributes on a cell (tags)

row 1, cell 1 row 1, cell 2 row 1, cell 2

row 2, cell 1

row 2, cell 2

```
row 3, cell 1
```

| row 1, cell 1 | row 1, cell 2 | row 1, cell 3 |
|---------------|---------------|---------------|
| row 2, cell 1 | row 2, cell 2 | |
| row 3, cell 1 | | |

Layout

Create a paper design

- "Master plan"
- Divide page into rectangular cells
- Subdivide cells with nested tables

Create table HTML code as a shell

- Indent table, tr and td elements for clarity
- > Add content later
- Use validator to check for missing closing tags

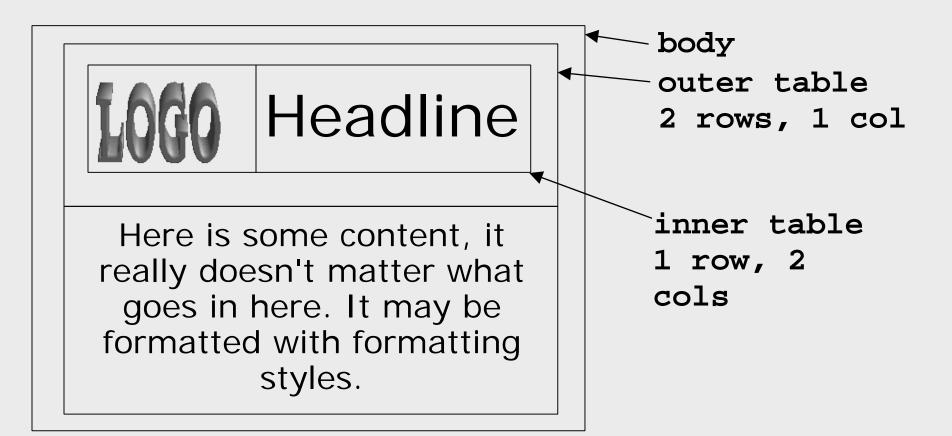
Nesting Tables

- NOTE: the code can get messy
 - Use indentation to structure HTML code
 - Make sure all elements have closing tags

Nested Tables

```
<table border="0" cellpadding=0
     cellspacing=0>
      <img src="parrot.png"
          height="244" width="97"
td tags
          alt="Picture of parrot"
for outer
table
      Norwegian Blue
         (lovely plumage)
```

Layout with tables > Create page layout using nested tables



Check out w3schools

- W3schools.com is an excellent resource for tables as well
- Check out:
 - http://www.w3schools.com/tags/tag_table.asp
 - See the examples section at the bottom of the page