**TABLES IN HTML**

- A table is a matrix of cells, each possibly having content
- The cells can include almost any element
- Some cells have row or column labels and some have data
- A table is specified as the content of a `<table>` tag
- A border attribute in the `<table>` tag specifies a border between the cells
- If border is set to "border", the browser’s default width border is used
- The border attribute can be set to a number, which will be the border width
- Without the border attribute, the table will have no lines!
- Tables are given titles with the `<caption>` tag, which can immediately follow `<table>`
- Each row of a table is specified as the content of a `<tr>` tag
- The row headings are specified as the content of a `<th>` tag
- The contents of a data cell is specified as the content of a `<td>` tag

```html
<table border = "border">
  <caption> Fruit Juice Drinks </caption>
  <tr>
    <th> </th>
    <th> Apple </th>
    <th> Orange </th>
    <th> Screwdriver </th>
  </tr>
  <tr>
    <th> Breakfast </th>
    <td> 0 </td>
    <td> 1 </td>
    <td> 0 </td>
  </tr>
  <tr>
    <th> Lunch </th>
    <td> 1 </td>
    <td> 0 </td>
    <td> 0 </td>
  </tr>
</table>
```
A table can have two levels of column labels

- If so, the colspan attribute must be set in the <th> tag to specify that the label must span some number of columns

```html
<tr><th colspan="3">Fruit Juice Drinks</th></tr>
<tr><th>Orange</th><th>Apple</th><th>Screwdriver</th></tr>
```

- If the rows have labels and there is a spanning column label, the upper left corner must be made larger, using rowspan

```html
<table border="border">
<tr><td rowspan="2"></td><th colspan="3">Fruit Juice Drinks</th></tr>
<tr><th>Apple</th><th>Orange</th><th>Screwdriver</th></tr>
```

```html
<tr><th colspan="3">Fruit Juice Drinks</th></tr>
<tr><th>Orange</th><th>Apple</th><th>Screwdriver</th></tr>
```

```html
<table border="border">
<tr><td rowspan="2"></td><th colspan="3">Fruit Juice Drinks</th></tr>
<tr><th>Apple</th><th>Orange</th><th>Screwdriver</th></tr>
```
The align attribute controls the horizontal placement of the contents in a table cell
- Values are left, right, and center (default)
- align is an attribute of <tr>, <th>, and <td> elements

The valign attribute controls the vertical placement of the contents of a table cell
- Values are top, bottom, and center (default)
- valign is an attribute of <th> and <td> elements

SHOW cell_align.html and display it

- The cellspacing attribute of <table> is used to specify the distance between cells in a table
- The cellpadding attribute of <table> is used to specify the spacing between the content of a cell and the inner walls of the cell

```html
<table cellspacing = "50">
  <tr>
    <td> Colorado is a state of … </td>
    <td> South Dakota is somewhat… </td>
  </tr>
</table>
```

- Table Sections
  - Header, body, and footer, which are the elements: thead, tbody, and tfoot
  - If a document has multiple tbody elements, they are separated by thicker horizontal lines

Source: http://elearningatria.files.wordpress.com/2013/10/cse-vii-programming-the-web-10cs73-notes.pdf