**Organizing Content with Tables**

***Inserting a Table***

* A table organizes data in horizontal **rows** and vertical **columns**
* Data in a table is displayed in a **cell,** which is the intersection of a row and column
* To create a table in HTML, four main elements are used:
  + <table></table> - marks the start and end of the table
  + <tr> </tr> - groups cells into rows
  + <th> </th> - marks the content of a header cell (bolded and centered)
  + <td> </td> - marks the content of a cell
  + Example:

<table>

<tr>

<th>Hour</th>

<th>Class</th>

<th>Teacher</th>

</tr>

<tr>

<td>First</td>

<td>Web Design</td>

<td>Clark</td>

</tr>

</table>

* The example above will give you the following results (borders are added in the stylesheet – see back side)

|  |  |  |
| --- | --- | --- |
| **Hour** | **Class** | **Teacher** |
| First | Web Design | Clark |

***Spanning Columns and Rows***

* When a table contains cells that repeat the same content across a row or down a column, you can format the cell to be displayed across multiple columns or rows
* To merge a cell across multiple columns in an HTML table, use the **colspan** attribute in the <th> or <td> tag for the cell to specify the number of columns in which it should be displayed
  + Example:

<table>

<tr>

<th colspan=”3”>Colors</th>

</tr>

<tr>

<td>Red</td>

<td>Blue</td>

<td>Yellow</td>

</tr>

</table>

* + The example above will give you the following results:

|  |  |  |
| --- | --- | --- |
| **Colors** | | |
| Red | Blue | Yellow |

* To merge a cell across multiple rows in an HTML table, use the **rowspan** attribute in the <th> or <td> tag for the cell to specify the number or rows in which it should be displayed
  + Example:

<table>

<tr>

<th rowspan=”3”>Colors</th>

</tr>

<tr>

<td>Red</td>

</tr>

<tr>

<td>Blue</td>

</tr>

<tr>

<td>Yellow</td>

</tr>

</table>

* + The example above will give you the following results:

|  |  |
| --- | --- |
| **Colors** | Red |
| Blue |
| Yellow |

* You can use colspan and rowspan in the same table to get the desired results! Think logically about how you want your table to look… remember: think in rows (cells from left to right)

***Formatting a Table with CSS***

* You can add styles to an entire table, a table section or individual rows or cells
  + Add attributes to the <table> <tr> <th> or <td> tags
* You can modify the width, margins, padding, background color, font, etc. by creating styles in your stylesheet
  + You can define styles for the elements of a table or create class or id styles to add as attributes
* Add borders to your cells
  + Style your borders as you would style borders of a box or heading, etc.
  + border-collapse –
    - separate: spaces between the borders of cells
    - collapse: no spaces between the borders of cells

example of separate borders

