

Website Development

IT117 UNIT 6

Reminders

Please do not post your URL in the discussion this week

- “Your URL” is referring to the URL for your assignments – do not share yet
- You still need a reference for your initial post

Don't forget to take the unit 6 graded quiz

- Study guide will be posted in an announcement after seminar
- One attempt, one hour, 25 multiple choice questions
- Due Friday of unit 7

HTML Tables



Intended for use with tabular data



Previously used for website page layouts



Should limit use and amount of content due to size (load time)

HTML Table Tags

```
<table></table>
```

```
<tr></tr>
```

```
<td></td>
```

```
<th></th>
```

Note: the `<thead></thead>`, `<tbody></tbody>`, and `<tfoot></tfoot>` tag pairs are no longer used. Browsers no longer use or need these elements. Using them adds unnecessary code and load time.

`<table></table>`
table tags



Surrounds entire table



Only one `<table>` and one
`</table>` pair per table

`<tr></tr>`
table row



Designates a row within a table



One `<tr></tr>` tag pair for each table row

`<td></td>`
table data (cell)



A cell is the intersection of a column and row



Designates a cell, or column, within a table row



One `<td></td>` tag pair for each table cell/column



Each table row must have the same number of cells/columns

`<th></th>`
table heading



Used in place of `<td></td>` when you want the text to display as a heading



Bolds the text within the cell



Centers the content of the cell

HTML Table Attributes

applied to
<td> or <th>
tags

colspan

- Used to merge 2 or more cells across multiple columns
- Content spans a set number of columns (2 or more)
- Will only span from left to right

rowspan

- Used to merge 2 or more cells down multiple rows
- Content spans a set number of rows (2 or more)
- Will only span from top to bottom

Sample Table

Table with two rows and two columns:

```
<table>
  <tr>
    <td>row 1 - column 1</td>
    <td>row 1 - column 2</td>
  </tr>
  <tr>
    <td>row 2 - column 1</td>
    <td>row 2 - column 2</td>
  </tr>
</table>
```

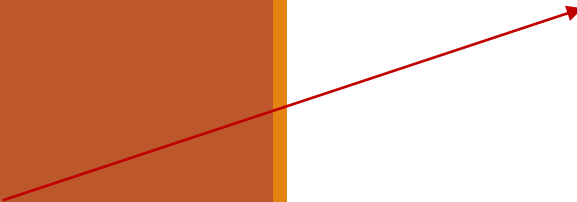
row 1 - column 1	row 1 - column 2
row 2 - column 1	row 2 - column 2

Note: borders are applied to the examples for clarity. If you want borders to appear within your table, they must be added using CSS. *The “border” attribute is deprecated and cannot be used.*

Sample Table Using <th></th>

Table with two rows and two columns:

```
<table>  
{  
<tr>  
  <th>row 1 - column 1</th>  
  <th>row 1 - column 2</th>  
</tr>  
<tr>  
  <td>row 2 - column 1</td>  
  <td>row 2 - column 2</td>  
</tr>  
</table>
```



row 1 - column 1	row 1 - column 2
row 2 - column 1	row 2 - column 2

Note: borders are applied to the examples for clarity. If you want borders to appear within your table, they must be added using CSS. *The “border” attribute is deprecated and cannot be used.*

Sample Table Using `<th></th>` and `colspan`

Table with two rows and two columns:

```
<table>
{
  <tr>
  {
    <th colspan="2">row 1 - column 1</th>
  }
  </tr>
  <tr>
  {
    <td>row 2 - column 1</td>
    <td>row 2 - column 2</td>
  }
  </tr>
}</table>
```

row 1 - column 1	
row 2 - column 1	row 2 - column 2

Note: borders are applied to the examples for clarity. If you want borders to appear within your table, they must be added using CSS. *The “border” attribute is deprecated and cannot be used.*

Sample Table Using `<th></th>` and `rowspan`

Table with two rows and two columns:

```
<table>
  <tr>
    <th>row 1 - column 1</th>
    <th rowspan="2">row 1 - column 2
  </th>
</tr>
<tr>
  <td>row 2 - column 1</td>
</tr>
</table>
```

row 1 - column 1	row 1 - column 2
row 2 - column 1	

Note: borders are applied to the examples for clarity. If you want borders to appear within your table, they must be added using CSS. *The “border” attribute is deprecated and cannot be used.*

Sample Table

Table with three rows and two columns:

```
<table>
  <tr>
    <th colspan="2">row 1 - column 1</th>
  </tr>
  <tr>
    <th rowspan="2">row 2 - column 1</th>
    <td>row 2 - column 2</td>
  </tr>
  <tr>
    <td>row 3 - column 2</td>
  </tr>
</table>
```

row 1 - column 1	
row 2 - column 1	row 2 - column 2
	row 3 - column 2

Note: borders are applied to the examples for clarity. If you want borders to appear within your table, they must be added using CSS. *The “border” attribute is deprecated and cannot be used.*

Formatting Tables with CSS

Add style rules to existing external CSS document

- Do not remove any existing CSS, you are adding new styles

CSS selectors and style rules are written as usual

- Any HTML tag can be used as a selector

Since formatting is applied to external CSS, formatting will apply to all tables within the website

- Keep this in mind if you add tables to other pages in the future

CSS Class

- Within the CSS, you will write a class
- Designated with a period and the name of the class
- Called in the HTML tag where it is to be applied
- Can be called as many times as needed throughout HTML files

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Let's say you want the ability to make some text red and centered on the page. You might code this in your CSS:

CSS:

```
.red-text-centered {  
text-align: center;  
color: #880000;  
}
```

Then, if you decide to apply the formatting to one of your h2 headings and one of your h3 headings, in those tags, you would code:

HTML:

```
<h2 class="red-text-centered">  
<h3 class="red-text-centered">
```

CSS ID

- Within the CSS, you will write an ID
- Designated with a pound sign and the name of the ID
- Called in the HTML tag where it is to be applied
- Can be called one time only in each HTML file

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Let's say you several lists on a page and you want the ability to change the bullet type and text color for one of your lists.

You might code this in your CSS:

CSS:

```
#square-list {  
list-style: square;  
color: #ff00ff;  
}
```

Then, you would identify the one element you want to format differently:

HTML:

```
<ul id="square-list">  
<li>List Item 1</li>  
<li>List Item 2</li>  
<li>List Item 3</li>  
<li>List Item 4</li>  
</ul>
```

```
<ul>  
<li>List Item 1</li>  
<li>List Item 2</li>  
<li>List Item 3</li>  
<li>List Item 4</li>  
</ul>
```

```
<ul>  
<li>List Item 1</li>  
<li>List Item 2</li>  
<li>List Item 3</li>  
<li>List Item 4</li>  
</ul>
```

Color Accessibility

Color Contrast

- <https://webaim.org/resources/contrastchecker/>
- <https://websemantics.uk/tools/wcag-colour-contrast-checker/>
- <https://dequeuniversity.com/color-contrast>

Color Blind Accessibility

- <https://css-tricks.com/accessibility-basics-testing-your-page-for-color-blindness/>
- <https://www.toptal.com/designers/colorfilter/>

Unit 6 CSS Requirement

- Make at least two changes to the existing CSS from Unit 5
 - *Do not change the page layout or remove any CSS from unit 5*
- Apply the following to your table:
 - A background color for the entire table
 - A width for the table set as a percent (%) value
 - An ID that formats the table or part of the table, applied one time
 - A class that changes something in the table, applied at least once in the table

Unit 6 Assignment

Make any corrections noted in the Unit 5 Gradebook

Make at least two changes to styles.css

- Can add borders around header, main, footer
- Can change text and/or background colors throughout document
- Can change the hover effect in the nav CSS
- Can change the font
- **Do not change the page layout or remove any CSS from unit 5*

Add a table to menu.html

- Table must contain at least three rows and three columns
- Table must use `<th></th>` at least once
- Table must use either `colspan` or `rowspan` to merge **two or more** cells
- Table must contain at least two menu items **with descriptions** for your restaurant
- Menu page must include at least **50 words** of content

Unit 6 Assignment

- Table Formatting (external CSS)
 - Set the width of the table using a percent value
 - Apply a background color to the table
 - Write an ID in styles.css and apply it **one time** to your table in menu.html
 - Write a class in styles.css and apply it **at least one time** to your table in menu.html

Wrap-Up

Questions?