

Lesson 11: Organizing Data With Tables

Creating a Table

- required elements: `<table>`
`<tr>`
`<td>`
- `<table>`
- table row (`<tr>`)
- table data (`<td>`) = listing multiple → creates columns w/in a table row
- table header (`<th>`) = can be used w/in columns or rows
 - `scope attribute` = exclusive to `<th>`
to identify what content a table header relates to:

col] most commonly used
row	
colgroup	
rowgroup	
 - `headers attribute` = alternative to scope usable on `<td>` & `<th>` elements
attribute value must = id attribute value on associated `<td>` or `<th>` element
- format: `<table>`
`<tr>`
`<th scope = "type"> text </th>`
`<th scope = "type"> text </th>`
`</tr>`
`<tr>`
`<td> ... </td>`
`<td> ... </td>`
`</tr>`
`<tr>`
`<td> ... </td>`
`</tr>`
`</table>`

Table Structure

- table structure: `<caption>`
`<thead>`
`<tbody>`
`<tfoot>`
- `<caption>` = provides a caption or title for table
must come immediately after opening `<table>` tag
positioned at top of table by default
- table head (`<thead>`) = wraps the heading row(s) of a table to denote the head
comes after any `<caption>` element & before any `<tbody>` element

- **table body (<tbody>)** = should contain the primary data w/in the table
comes after any <thead> elements
- **table foot (<tfoot>)** = contains data that outlines the contents of a table
comes after any <thead> elements

- format: <table>

```

    <caption> text </caption>
    <thead>
      <tr>
        <th scope = "type"> text </th>
        <th scope = "type"> text </th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td> ... </td>
        <td> ... </td>
      </tr>
    </tbody>
    <tfoot>
      <tr>
        <td> ... </td>
        <td> </td>
      </tr>
    </tfoot>
  </table>

```

- combine multiple cells into one via: colspan rowspan] works on <td> & <th> elements

- **colspan attribute** = to span a single cell across multiple columns w/in a table
- **rowspan attribute** = to span a single cell across multiple rows w/in a table

Monthly Savings	
January	\$100
February	\$80
Sum: \$180	

→ eg. <table>

```

    <thead>
      <tr>
        <th colspan="2"> Monthly Savings </th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td> January </td>
        <td> $100 </td>
      </tr>
      <tr>
        <td> February </td>

```

```

        <td> $80 </td>
      </tr>
    </tbody>
    <tfoot>
      <tr>
        <td colspan="2"> Sum: $180 </td>
      </tr>
    </tfoot>
  </table>

```

Table Borders

- style table borders w/:
 border-collapse
 border-spacing
 } apply to <table> → table { ... }
- border-collapse property** = determines a table's border model
 by default, borders stack/sit on top of each other
 - values: **collapse** = uses table cell border only
 - separate** = default, stacks multiple borders
 - inherit
- border-spacing property** = how much space appears between borders
 only works when border-collapse = separate (or border-collapse isn't declared)
 - accepts general length values
 - (eg. border-spacing: 5px;): 5px on all 4 sides
 - (eg. border-spacing: 3cm 2em;): 3cm horizontal spacing / top & bottom
2em vertical spacing / left & right
- borders can't be applied to: <tr> elements
 table structural elements
- adding borders to rows:

```

→ eg. table {
  border-collapse: collapse,
}
th, td {
  border-bottom: 1px solid #000
  padding: 10px 15px
}
tfoot tr: last-child td {
  border-bottom: 0;
}

```

Table Striping

- stripe table rows w/ alternating background colors → distinguish rows & more legible
 - format: `tbody tr:nth-child(even/odd) {`
 `background: color value;`
 `color: color value;`
 `}`

Aligning Text

- table format:

names] flush left
descriptions	
numbers] flush right
other figures	
other info	- centered
- align text: `text-align`
 `vertical-align`
- vertical-align property** = only works on inline & table cell (`<th>` & `<td>`) elements to vertically align text
 - values: `top`
 `middle`
 `bottom`