

LEARNING OUTCOMES

- ▶ **In this chapter, you will learn how to ...**
 - ▶ Create a table on a web page
 - ▶ Apply attributes to format tables, table rows, and table cells
 - ▶ Increase the accessibility of a table
 - ▶ Style an HTML table with CSS

HTML TABLE

- ▶ Tables are used on web pages to organize tabular information

Name	Birthday	Phone
Jack	5/13	857-555-5555
Sparky	11/28	303-555-5555

- ▶ Composed of rows and columns – similar to a spreadsheet.
- ▶ Each individual table cell is at the intersection of a specific row and column.
- ▶ Configured with table, tr, and td elements

HTML TABLE ELEMENTS

- `<table>`
Contains the table
- `<tr>`
Contains a table row
- `<td>`
Contains a table cell
- `<caption>`
Configures a description of the table

Name	Date
Bobolink	5/25/10
Upland Sandpiper	6/03/10

TABLE EXAMPLE

```
<table border="1">
  <caption>Bird Sightings</caption>
  <tr>
    <td>Name</td>
    <td>Date</td>
  </tr>
  <tr>
    <td>Bobolink</td>
    <td>5/25/10</td>
  </tr>
  <tr>
    <td>Upland Sandpiper</td>
    <td>6/03/10</td>
  </tr>
</table>
```

Name	Date
Bobolink	5/25/10
Upland Sandpiper	6/03/10

TABLE EXAMPLE 2

Using the <th> Element

```
<table border="1">
  <tr>
    <th>Name</th>
    <th>Birthday</th>
  </tr>
  <tr>
    <td>James</td>
    <td>11/08</td>
  </tr>
  <tr>
    <td>Karen</td>
    <td>4/17</td>
  </tr>
  <tr>
    <td>Sparky</td>
    <td>11/28</td>
  </tr>
</table>
```

Name	Birthday
James	11/08
Karen	4/17
Sparky	11/28

HTML COMMON TABLE ATTRIBUTES

- ▶ align (obsolete)
- ▶ bgcolor (obsolete)
- ▶ border (obsolete)
- ▶ cellpadding (obsolete)
- ▶ cellspacing (obsolete)
- ▶ summary (obsolete but may be reinstated)
- ▶ width (obsolete)

- ▶ Use CSS to configure table characteristics instead of HTML attributes

HTML COMMON TABLE CELL ATTRIBUTES

- ▶ align (obsolete)
- ▶ bgcolor (obsolete)
- ▶ colspan
- ▶ rowspan
- ▶ valign
- ▶ height (deprecated)
- ▶ width (deprecated)

- ▶ Use CSS to configure most table cell characteristics instead of HTML attributes

HTML COLSPAN ATTRIBUTE

```
<table border="1">
  <tr>
    <td colspan="2">
      Birthday List</td>
  </tr>
  <tr>
    <td>James</td>
    <td>11/08</td>
  </tr>
  <tr>
    <td>Karen</td>
    <td>4/17</td>
  </tr>
</table>
```

Birthday List	
James	11/08
Karen	4/17

HTML ROWSPAN ATTRIBUTE

```
<table border="1">  
  <tr>  
    <td rowspan="2">This spans two rows</td>  
    <td>Row 1 Column 2</td>  
  </tr>  
  <tr>  
    <td>Row 2 Column 2</td>  
  </tr>  
</table>
```

This spans two rows	Row 1 Column 2
	Row 2 Column 2

ACCESSIBILITY AND TABLES

- ▶ Use table header elements (`<th>` tags) to indicate column or row headings.
- ▶ Use the caption element to provide a text title or caption for the table.
- Complex tables:
Associate table cell values with their corresponding headers
 - `<th>` tag id attribute
 - `<td>` tag headers attribute

```
<table border="1">
```

```
<caption>Bird Sightings</caption>
```

```
<tr>
```

```
<th id="name">Name</th>
```

```
<th id="date">Date</th>
```

```
</tr>
```

```
<tr>
```

```
<td headers="name">Bobolink</td>
```

```
<td headers="date">5/25/10</td>
```

```
</tr>
```

```
<tr>
```

```
<td headers="name">Upland Sandpiper</td>
```

```
<td headers="date">6/03/10</td>
```

```
</tr>
```

```
</table>
```

Name	Date
Bobolink	5/25/10
Upland Sandpiper	6/03/10

USING CSS TO STYLE A TABLE

HTML Attribute	CSS Property
align	Align a table: <code>table { width: 75%; margin: auto; }</code> Align within a table cell: <code>text-align</code>
bgcolor	<code>background-color</code>
cellpadding	<code>padding</code>
cellspacing	<code>border-spacing</code> or <code>border-collapse</code>
height	<code>height</code>
valign	<code>vertical-align</code>
width	<code>width</code>
border	<code>border</code> , <code>border-style</code> , or <code>border-spacing</code>
--	<code>background-image</code>

CSS STRUCTURAL PSEUDO-CLASSES

Pseudo-class	Purpose
:first-of-type	Applies to the first element of the specified type
:first-child	Applies to the first child of an element (CSS2 selector)
:last-of-type	Applies to the last element of the specified type
:last-child	Applies to the last child of an element
:nth-of-type(n)	Applies to the “nth” element of the specified type Values: a number, odd, or even

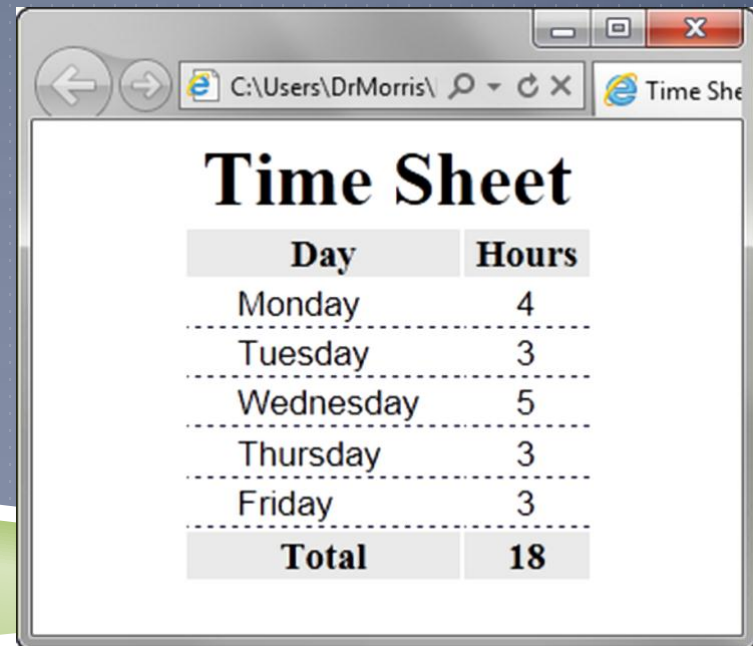
Zebra Stripe a Table

```
tr:nth-of-type(even) { background-color: #eaeaea; }
```

TABLE ROW GROUPS

```
<table> <caption>Time Sheet</caption>
<thead>
  <tr>
    <th id="day">Day</th>
    <th id="hours">Hours</th>
  </tr>
</thead>
<tbody>
  <tr>
    <td headers="day">Monday</td>
    <td headers="hours">4</td>
  </tr>
  ...
  <tr>
    <td headers="day">Friday</td>
    <td headers="hours">3</td>
  </tr>
</tbody>
<tfoot>
  <tr>
    <td headers="day">Total</td>
    <td headers="hours">18</td>
  </tr>
</tfoot> </table>
```

- ▶ `<thead>`
table head rows
- ▶ `<tbody >`
table body rows
- ▶ `<tfoot>`
table footer rows



The screenshot shows a web browser window with the address bar displaying 'C:\Users\DrMorris\' and the page title 'Time Sheet'. The table content is as follows:

Day	Hours
Monday	4
Tuesday	3
Wednesday	5
Thursday	3
Friday	3
Total	18

SUMMARY

- ▶ This chapter introduced the HTML and CSS techniques used to create and configure tables on web pages.