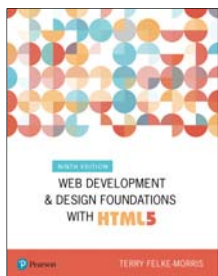


**Web Development & Design Foundations with HTML5**  
 Ninth Edition



**Chapter 8**  
 Tables

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**Learning Objectives**

- 8.1 Create a basic table with the table, table row, table header, and table cell elements
- 8.2 Configure table sections with the thead, tbody, andtfoot elements
- 8.3 Increase the accessibility of a table
- 8.4 Style an HTML table with CSS
- 8.5 Describe the purpose of CSS structural pseudo-classes

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**HTML Table**

Tables are used on web pages to organize tabular information  
 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

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

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**HTML Table Elements**

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

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

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**HTML Table Example 1 (1 of 2)**

```
<table border="1">
<caption>Bird Sightings</caption>
<tr>
  <td>Name</td>
  <td>Date</td>
</tr>
<tr>
  <td>Bobolink</td>
```

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**HTML Table Example 1 (2 of 2)**

```
<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

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### HTML Table Example 2 (1 of 2)

```
<table border="1">
<tr>
<th>Name</th>
<th>Birthday</th>
</tr>
<tr>
<td>James</td>
<td>11/08</td>
</tr>
```

### HTML Table Example 2 (2 of 2)

```
<tr>
<td>Karen</td>
<td>4/17</td>
</tr>
<tr>
<td>Sparky</td>
<td>11/28</td>
</tr>
</table>
```

Using the <th> Element

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

### HTML Table Attributes

- align (obsolete)
- bgcolor (obsolete)
- border
- 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 (obsolete)
- 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 Captions

```
<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

### Checkpoint 8.1

1. Describe the purpose of using a table on a web page.
2. How is the text contained in a th element displayed by the browser?
3. Describe one coding technique that increases the accessibility of an HTML table.

### Using CSS to Style a Table

HTML Attribute	CSS Property
Align	Center align a table: table { width: 75%; margin: auto; } Center align within a table cell: text-align: center;
Bgcolor	background-color
Cellpadding	Padding
Cellspacing	border-spacing or border-collapse
Height	Height
Valign	vertical-align
Width	Width
Border	border, border-style, or border-spacing
--	background-image

### 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 (1 of 2)

```
<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>
```

### Table Row Groups (2 of 2)

```

...
<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>

```

Day	Hours
Monday	4
Tuesday	3
Wednesday	5
Thursday	3
Friday	3
<b>Total</b>	<b>18</b>

### Checkpoint 8.2

1. Describe a reason to configure a table with CSS properties instead of HTML attributes.
2. List three elements that are used to group table rows.

### Summary

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

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