Chapter 9 How to work with tables

Objectives

Applied

- 1. Use HTML to create tables with merged cells, captions, headers, and footers.
- 2. Use CSS and the CSS3 structural pseudo-classes to format the tables that you create.
- 3. Use the HTML5 figure and figcaption elements to treat a table as a figure.
- 4. Use HTML to provide accessibility for tables.

Knowledge

- 1. Describe these components of a table: rows, columns, cells, header cells, data cells, table header, table footer, and table body.
- 2. Describe the proper use of tables, now that CSS should be used for page layout.

Objectives (cont.)

- 3. Describe the use of nesting and wrapping with tables.
- 4. Describe the use of the table attributes for accessibility.

A simple table with basic formatting

Total Sales by Book

Book	Year Published	Sales
PHP and MySQL	2010	\$372,381
JavaScript and DOM Scripting	2009	\$305,447
Java Programming	2011	\$392,444
Java Servlets and JSP	2008	\$328.992
Total Sales		\$2,154,786

Common elements for coding tables

- table
- tr
- th
- td

All table components are nested within a element. (E.g. , , and)

(rows) elements are within a table

Then, (columns) and are within the rows

Note: and are centered by default

The HTML for the Sales by Book table

```
Book
  Year Published
  Sales
 PHP and MySQL
  2010
  $372,381
 Total Sales
  <
  $2,154,786
```

The table in a web browser with no formatting

Book	Year Published	Sales
PHP and MySQL	2010	\$372,381
JavaScript and DOM Scripting	2009	\$305,447
Java Programming	2011	\$392,444
Java Servlets and JSP	2008	\$328.992
Total Sales		\$2,154,786

Common properties for formatting tables

- border-collapse
- border-spacing
- padding
- text-align
- vertical-align

CSS for the Sales by Book table

```
table {
    border: 1px solid black;
    border-collapse: collapse; }
th, td {
    border: 1px solid black;
    padding: .2em .7em;
    text-align: right; }
th.left, td.left { text-align: left; }
#total { font-weight: bold; }
```

The table in a web browser

Book	Year Published	Sales
PHP and MySQL	2010	\$372,381
JavaScript and DOM Scripting	2009	\$305,447
Java Programming	2011	\$392,444
Java Servlets and JSP	2008	\$328.992
Total Sales		\$2,154,786

The table without collapsed borders

Book	Year Published	Sales
PHP and MySQL	2010	\$372,381
JavaScript and DOM Scripting	2009	\$305,447
Java Programming	2011	\$392,444
Java Servlets and JSP	2008	\$328.992
Total Sales		\$2,154,786

The elements for the header, body, and footer

- thead
- tbody
- tfoot

HTML for a table with a header, body, and footer

```
<thead>
   Book
    Year published
    Total sales
   </thead>
 PHP and MySQL
    2010
    $372,381
```

A table with a header, body, and footer (cont.)

The CSS for the header and footer

```
thead, tfoot { background-color: aqua; }
tfoot { font-weight: bold; }
```

The table in a web browser

Book	Year Published	Sales
PHP and MySQL	2010	\$372,381
JavaScript and DOM Scripting	2009	\$305,447
Java Programming	2011	\$392,444
Java Servlets and JSP	2008	\$328.992
Total Sales		\$2,154,786

CSS3 structural pseudo-class selectors

```
:nth-child(n)
:nth-last-child(n)
:nth-of-type(n)
:nth-last-of-type(n)
```

Typical n values

odd

even

n

2n

3n

2n+1

3n+1

A table within a figure

Total Sales by Book

Book	Year Published	Sales
PHP and MySQL	2010	\$372,381
JavaScript and DOM Scripting	2009	\$305,447
Java Programming	2011	\$392,444
Java Servlets and JSP	2008	\$328.992
ASP.NET with Visual Basic	2011	\$351,200
ASP.NET with C#	2011	\$404.332
Total Sales		\$2,154,786

Attributes for merging cells

- colspan
- rowspan

A table with merged cells

	Sales			
Book	North	South	West	Total
PHP and MySQL	\$55,174	\$73,566	\$177,784	\$306,524
JavaScript and DOM Scripting	\$28,775	\$24,349	\$168,228	\$221,352
Java Programming	\$27,688	\$39,995	\$239,968	\$307,651
Java Servlets and JSP	\$23,082	\$24,858	\$129,619	\$177,559
Sales Totals	\$140,775	\$165,550	\$762,794	\$1,069,119

The HTML for the table

```
<thead>

Book
Sales

> \tr>
North
South

Total

</tab
</tr>

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

Attributes that can be used for accessibility

- caption
- headers
- scope

Accessibility guideline

• Use these attributes to make a table more accessible to visually-impaired users who use screen readers.

A table with another table nested within one cell

Region		YTD sales
West		\$68,684.34
Central	North	\$21,223.08
Centrai	South	\$41,274.06
East		\$72,741.06

The HTML for the table

```
<caption>YTD Sales by Region</caption>
 Region
   YTD sales
 West
   $68,684.34
 Central
   North
        $21,223.08
```

The property that stops wrapping

```
table { white-space: nowrap; }
```