Web Development & Design Foundations with HTML5 8th Edition

CHAPTER 8
KEY CONCEPTS

Learning Outcomes

In this chapter, you will learn how to ...

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

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.

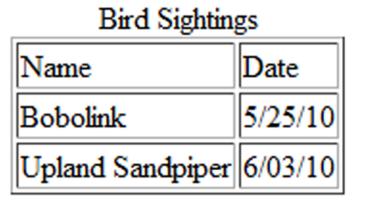
Each individual table cell is at the intersection of a specific row and column.

Configured with table, tr, and td elements

HTML Table Elements

- Contains the table
- Contains a table row
- Contains a table cell

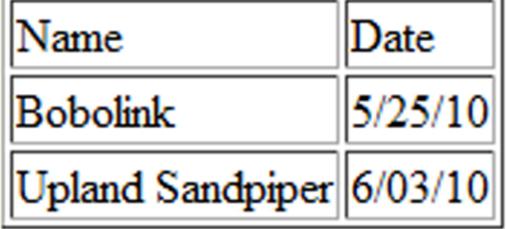
<caption>
 Configures a description of the table



```
<caption>Bird Sightings</caption>
>
 Name
 Date
>
 Bobolink
 5/25/10
>
 Upland Sandpiper
 6/03/10
```

HTML Table Example

Bird Sightings



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

HTML Table Example 2

Using the Element



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

```
Birthday List
>
James
11/08
Karen
4/17
```

HTML colspan Attribute

```
Birthday List
James 11/08
Karen 4/17
```

HTML rowspan Attribute

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

Accessibility and Tables

Use table header elements (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
 - tag id attribute
 - tag headers attribute

```
<caption>Bird Sightings</caption>
Name
Date
                 Name
Bobolink
Upland Sandpiper 6/03/10
Bobolink
5/25/10
Upland Sandpiper
6/03/10
```

Bird Sightings

Date

5/25/10

Checkpoint

- 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	CSS
Attribute	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; }

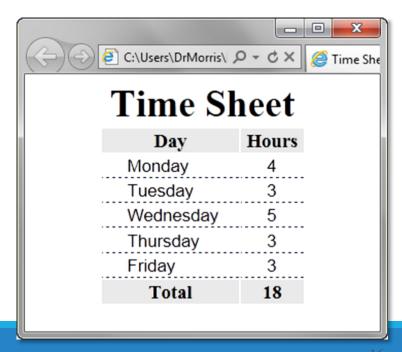
```
 <caption>Time Sheet</caption>
<thead>
>
 Day
 Hours
</thead>
>
 Monday
 4
>
 Friday
 3
<tfoot>
>
 Total
 18
</tfoot>
```

Table Row Groups

<thead> table head rows

table body rows

<tfoot> table footer rows



Checkpoint

- 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.