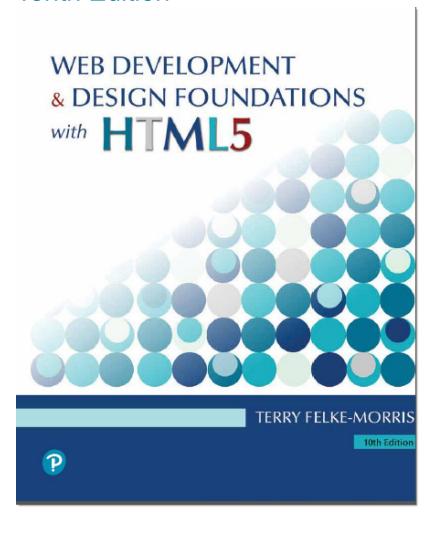
# Web Development & Design Foundations with HTML5

**Tenth Edition** 



Chapter 8

**Tables** 

## **Learning Outcomes**

- 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**

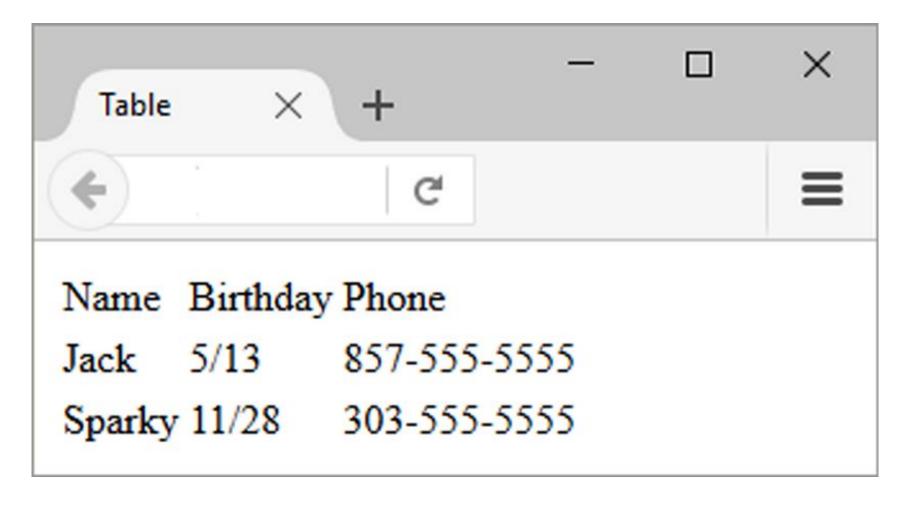
Tables are used on web pages to organize tabular information

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

#### simple Table with three rows and three columns



## **Table- with caption**

```
<caption>Bird Sightings</caption>
Name
 Date
Bobolink
 5/25/20
Upland Sandpiper
 6/03/20
```

#### Bird Sightings

| Name             | Date    |
|------------------|---------|
| Bobolink         | 5/25/20 |
| Upland Sandpiper | 6/03/20 |

#### **Table Borders**

Obsolete Method: HTML border attribute

Modern Method: CSS border Property

table, td, th { border: 1px solid #000; }

#### Bird Sightings

| Name             | Date    |
|------------------|---------|
| Bobolink         | 5/25/20 |
| Upland Sandpiper | 6/03/20 |

The caption for this table is "Bird Sightings"

#### **Table Header**

```
Name
Birthday
James
11/08
```

Using the Element



#### **HTML Table Attributes**

- align (obsolete)
- bgcolor (obsolete)
- border (obsolete)
- cellpadding (obsolete)
- cellspacing (obsolete)
- summary (obsolete)
- 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

```
 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
Row 2 Column 2
                     Table with a column that spans
                     two rows
```

## **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

## **Accessibility and Tables**

```
<caption>Bird Sightings</caption>
Bird Sightings
  Name
                 Name
  Date
                 Bobolink
Upland Sandpiper 6/03/20
Bobolink
  5/25/20
Upland Sandpiper
  6/03/20
```

Date

5/25/20

### Checkpoint (1 of 2)

- 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?
- Describe one coding technique that increases the accessibility of an HTML table.
- 4. Is it possible to nest tables?

## **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    |   |
| height         | border-spacing or border-collapse<br>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 3)

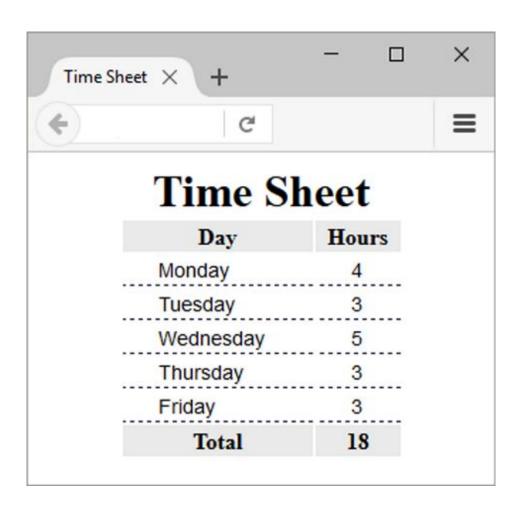
## Table Row Groups (2 of 3)

```
Monday
4
Friday
3
<tfoot>
Total
18
</tfoot>
```

<thead>
table head rows

table body rows
<tfoot>
table footer rows

#### CSS configures the thead, tbody, and tfoot element selectors



## Checkpoint (2 of 2)

- 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.