

CIS 300

Web Design and Development

Chapter 9 | Table Basics

Learning Objectives

2

- Describe the recommended use of a table on a web page
- Configure a basic table with the table, table row, table header, and table cell elements.
- Configure table sections with the thead, tbody, and tfoot elements.
- Configure a table to provide for accessibility
- Use CSS to style an HTML table
- Describe the purpose of CSS3 structural pseudo-classes

HTML Table

3

- 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
 - td

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

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HTML Table Elements

4

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

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

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HTML Table Example

5

```
<table border="1">
<caption>Birthday List</caption>
<tr>
  <td>Name</td>
  <td>Birthday</td>
</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>
```

Birthday List

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

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HTML Table Example #2

6

```
<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>
```

Using the <th> Element

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

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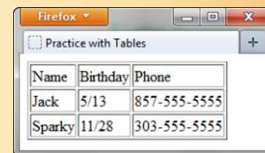
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HTML border Attribute

7

- Indicates the table is specifically not used for page layout. Optional.

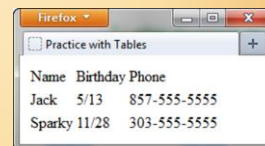
- `border="1"`
Visible browser default border



A screenshot of a Firefox browser window titled "Practice with Tables". It displays a table with three columns: Name, Birthday, and Phone. The table has a visible border.

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

- `border=""`
No visible browser default border.



A screenshot of a Firefox browser window titled "Practice with Tables". It displays a table with three columns: Name, Birthday, and Phone. The table has no visible border.

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

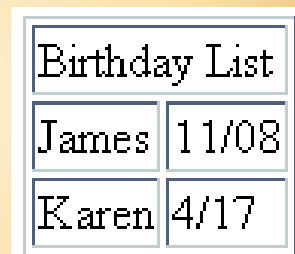
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HTML colspan Attribute

8

```
<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>
```



A screenshot of a table rendered in a browser. The table has a border and contains three rows. The first row has a single cell with the text "Birthday List". The second and third rows each have two cells. The second row contains "James" and "11/08". The third row contains "Karen" and "4/17".

Birthday List	
James	11/08
Karen	4/17

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HTML rowspan Attribute

9

```
<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

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Accessibility and Tables

10

- Use table header elements (<th> tags) to indicate column or row headings.
- Use the summary attribute on the table element to provide an overview of the purpose and organization of the table.
- Use the caption element to provide the title/caption for the table.
- Other attributes that provide for accessibility:
 - headers & id
 - scope

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Accessibility: headers & id Attributes

11

```
<table>
<caption> Word Schedule</caption>
<tr>
  <th id="day">Day</th>
  <th id="hours">Hours</th>
</tr>
<tr>
  <td headers="day">Monday</td>
  <td headers="hours">4</td>
</tr>
<tr>
  <td headers="day">Tuesday</td>
  <td headers="hours">3</td>
</tr>
<tr>
  <td headers="day">Total</td>
  <td headers="hours">7</td>
</tr>
</table>
```

Day	Hours
Monday	4
Tuesday	3
Total	7

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Using CSS to Style a Table

12

HTML Attribute	CSS Property
align	Align a table: table { width: 75%; margin: auto; } Align within a table cell: text-align
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
---	caption-side

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CSS3 Structural Pseudo-classes

13

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

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Table Sections

14

```

<table>
<caption>Work Schedule</caption>
<thead>
  <tr>
    <th>Day</th>
    <th>Hours</th>
  </tr>
</thead>
<tbody>
  <tr>
    <td>Monday</td>
    <td>4</td>
  </tr>
  <tr>
    <td>Tuesday</td>
    <td>3</td>
  </tr>
</tbody>
<tfoot>
  <tr>
    <td>Total</td>
    <td>7</td>
  </tr>
</tfoot>
</table>

```

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

Day	Hours
Monday	4
Tuesday	3
Total	7

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See you in the next video!