

Introduction to HTML Training

HTML Tables

Lesson 1, Activity 2: Creating Tables

Tables are made up of one or more table rows, which contain one or more table cells. The tag for creating tables is `<table>`. The table row tag is `<tr>` and the two tags that can create table cells are `<td>` and `<th>`. Below is a simple table:

Code Sample:

Tables/Demos/TableHomeruns.html

```
<!DOCTYPE HTML>
<html>
<head>
<meta charset="UTF-8">
<title>Home Run Hitters</title>
</head>
<body>
<table>
<caption>All-time Home Run Record</caption>
<tr>
<th>Player</th>
<th>Home Runs</th>
<th>Team</th>
</tr>
<tr>
<td>Hank Aaron</td>
<td>755</td>
<td>Braves</td>
</tr>
<tr>
<td>Babe Ruth</td>
<td>714</td>
<td>Yankees</td>
</tr>
<tr>
<td>Willie Mays</td>
<td>660</td>
<td>Giants</td>
</tr>
</table>
</body>
</html>
```

The `<th>` elements are table header cells. By default, their content will be centered and bolded. The `<td>` elements are table data cells. By default, their content will be plain text and left aligned. The display of tables (background colors, borders, column width, row height, etc.) can be controlled with CSS.

Adding a Caption

The table above has a caption, which is added by inserting the `<caption>` tag after the open `<table>` tag:

```
<table>
<caption>All-time Home Run Record</caption>
<tr>...
```

The image below shows how this table will be rendered in the browser:



Lesson 1, Activity 3: Attributes

The following tables list attributes that have been deprecated in the current HTML standards. They are presented here for backwards compatibility with older browsers. Internet Explorer 7 and earlier do not support all of the latest CSS settings that replace these obsolete attributes. Later in this course is a lesson on using CSS for styling. Using CSS is the recommended way of styling tables.

<table> Attributes

Attribute	Description
width	sets the width of the table in pixels or percentage
border	sets the width of the border of the table
cellspacing	sets the distance between cells in pixels
cellpadding	sets the distance between cell content and the cell border in pixels
summary	used to provide a longer description of the table for screenreaders

<tr> Attributes

Attribute	Description
align	aligns the content in the cells in the table row horizontally (left, center, or right)
valign	aligns the content in the cells in the table row vertically (top, middle, or bottom)

<td> and <th> Attributes

Attribute	Description
align	aligns the content in the cells in the table row horizontally (left, center, or right)
valign	aligns the content in the cells in the table row vertically (top, middle, or bottom)
colspan	indicates the number of columns the cell should <u>span</u>
rowspan	indicates the number of rows the cell should <u>span</u>

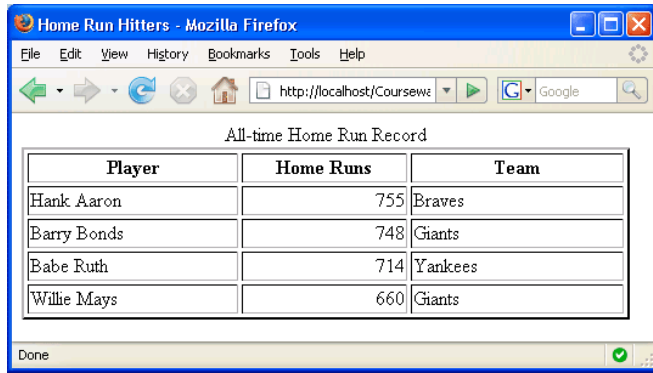
The table in the page below shows these attributes in use:

Code Sample:

Tables/Demos/TableHomeRunsFormatted.html

```
<!DOCTYPE HTML>
<html>
<head>
<meta charset="UTF-8">
<title>Home Run Hitters</title>
</head>
<body>
<table width="500" border="2" cellpadding="1" cellspacing="3">
<caption>All-time Home Run Record</caption>
<tr>
<th>Player</th>
<th>Home Runs</th>
<th>Team</th>
</tr>
<tr>
<td>Hank Aaron</td>
<td align="right">755</td>
<td>Braves</td>
</tr>
<tr>
<td>Barry Bonds</td>
<td align="right">748</td>
<td>Giants</td>
</tr>
<tr>
<td>Babe Ruth</td>
<td align="right">714</td>
<td>Yankees</td>
</tr>
<tr>
<td>Willie Mays</td>
<td align="right">660</td>
<td>Giants</td>
</tr>
</table>
</body>
</html>
```

This screenshot below shows how this table would be rendered:



Lesson 1, Activity 4: Merging Cells

In HTML tables, all table rows must span the same number of columns and all table columns must span the same number of rows. To illustrate, take the following table, which has two rows:

Merging Across Columns

a	b	c
d	e	

Note that the second table row has only two cells; however, it spans all three columns. In HTML, this is accomplished by adding a `colspan` attribute to any table cell that spans more than one column. The following code would create a table like the one above:

Code Sample:

[Tables/Demos/MergingCols.html](#)

```
---- C O D E   O M I T T E D ----
<table>
<tr>
<td>a</td>
<td>b</td>
<td>c</td>
</tr>
<tr>
<td>d</td>
<td colspan="2">e</td>
</tr>
</table>
---- C O D E   O M I T T E D ----
```

Spanning rows works in the same way:

Merging Across Rows

a	b	c
c		e

Note that the second table column has only one cell; however, it spans both rows. This is accomplished with the `rowspan` attribute as shown in the code below:

Code Sample:

[Tables/Demos/MergingRows.html](#)

```
---- C O D E   O M I T T E D ----
<table>
<tr>
<td>a</td>
<td rowspan="2">b</td>
<td>c</td>
</tr>
<tr>
<td>c</td>
<td>e</td>
</tr>
</table>
---- C O D E   O M I T T E D ----
```

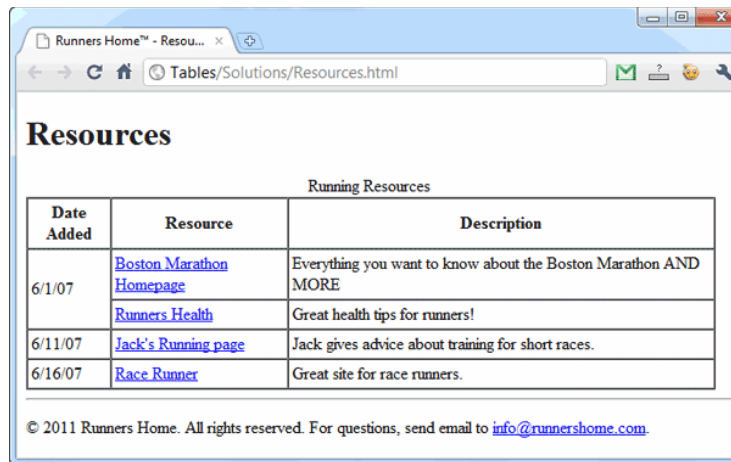
We have added the deprecated `border` and `width` attributes to the `table` tag to make the merged cells more visible; however, we don't recommend you use those attributes in practice. Again, it's better to learn to use CSS.

Lesson 1, Activity 6: Creating Tables

Duration: 20 to 30 minutes.

In this exercise, you will create a table from scratch.

1. Open [Tables/Exercises/Resources.html](#) for editing. Modify the code so the page appears as shown below:



2. The links in the table should point to the following URLs.
 - Boston Marathon Homepage - <http://www.bostonmarathon.com>
 - Runners Health - <http://www.runnershealth.com>
 - Jack's Running Page - <http://www.jacksrunning.com>
 - Race Runner - <http://www.racerunner.org>
3. Save your work and open your new page in a browser to test it.

Solution:[Tables/Solutions/Resources.html](#)

```
<!DOCTYPE HTML>
<html>
<head>
<meta charset="UTF-8">
<title>Runners Home&trade; - Resources</title>
</head>
<body>
<h1>Resources</h1>
<table width="650" border="1" cellpadding="3" cellspacing="0">
  <caption>Running Resources</caption>
  <tr>
    <th>Date Added</th>
    <th>Resource</th>
    <th>Description</th>
  </tr>
  <tr>
    <td rowspan="2">6/1/07</td>
    <td><a href="http://www.bostonmarathon.com">Boston Marathon Homepage</a></td>
    <td>Everything you want to know about the Boston Marathon AND MORE</td>
  </tr>
  <tr>
    <td><a href="http://www.runnershealth.com">Runners Health</a></td>
    <td>Great health tips for runners!</td>
  </tr>
  <tr>
    <td>6/11/07</td>
    <td><a href="http://www.jacksrunning.com">Jack's Running page</a></td>
    <td>Jack gives advice about training for short races.</td>
  </tr>
  <tr>
    <td>6/16/07</td>
    <td><a href="http://www.racerunner.org">Race Runner</a></td>
    <td>Great site for race runners.</td>
  </tr>
</table>

<hr>
<p>&copy;2011 Runners Home. All rights reserved. For questions, send email to <a href="mailto:info@runnershome.com">info@runnershome.com</a>.</p>
</body>
</html>
```