



Advanced Tables

Spanning Rows and Columns

So far, our tables have been relatively simple, with a uniform grid of rows and columns:

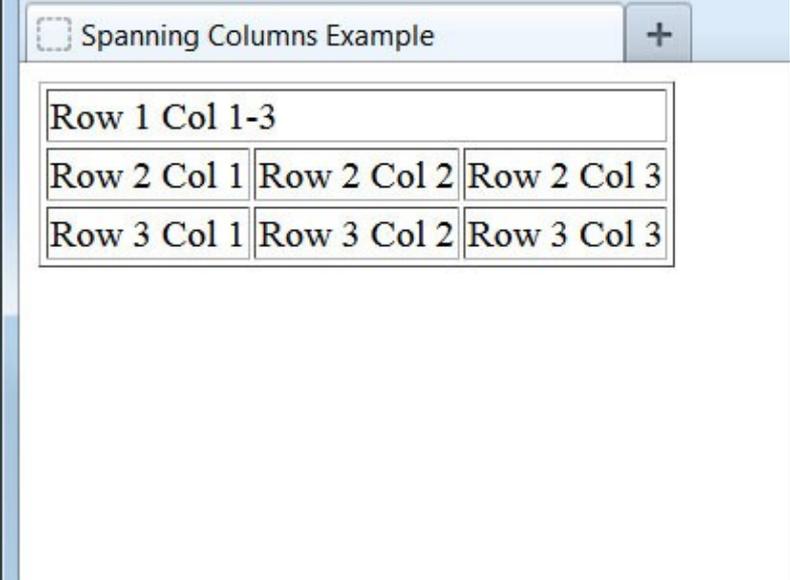
XHTML allows us to create more complex table elements by spanning multiple rows or columns, like this:

Let's build some tables using each of these features and then try combining both features into the same table.

Example: Spanning Columns

We can build a data cell that spans more than one column by using the **colspan** attribute:

```
<table border="1">
  <tr>
    <td colspan="3">Row 1 Col 1-3</td>
  </tr>
  <tr>
    <td>Row 2 Col 1</td>
    <td>Row 2 Col 2</td>
    <td>Row 2 Col 3</td>
  </tr>
  <tr>
    <td>Row 3 Col 1</td>
    <td>Row 3 Col 2</td>
    <td>Row 3 Col 3</td>
  </tr>
</table>
```



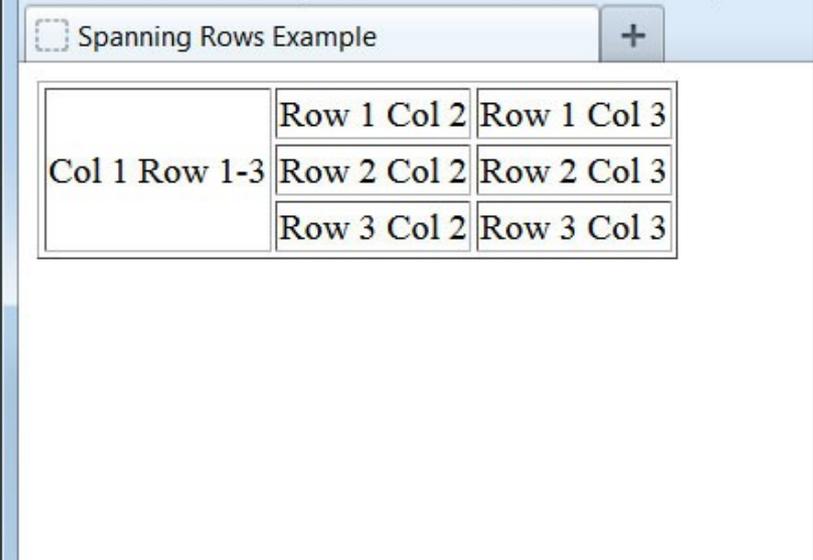
Row 1 Col 1-3		
Row 2 Col 1	Row 2 Col 2	Row 2 Col 3
Row 3 Col 1	Row 3 Col 2	Row 3 Col 3

The value placed in the **colspan** attribute informs the browser how many columns to combine into a single data cell.

Example: Spanning Rows

Using the same principle, we can build a data cell that spans more than one row by using the **rowspan** attribute:

```
<table border="1">
  <tr>
    <td rowspan="3">Col 1 Row 1-3</td>
    <td>Row 1 Col 2</td>
    <td>Row 1 Col 3</td>
  </tr>
  <tr>
    <td>Row 2 Col 2</td>
    <td>Row 2 Col 3</td>
  </tr>
  <tr>
    <td>Row 3 Col 2</td>
    <td>Row 3 Col 3</td>
  </tr>
</table>
```



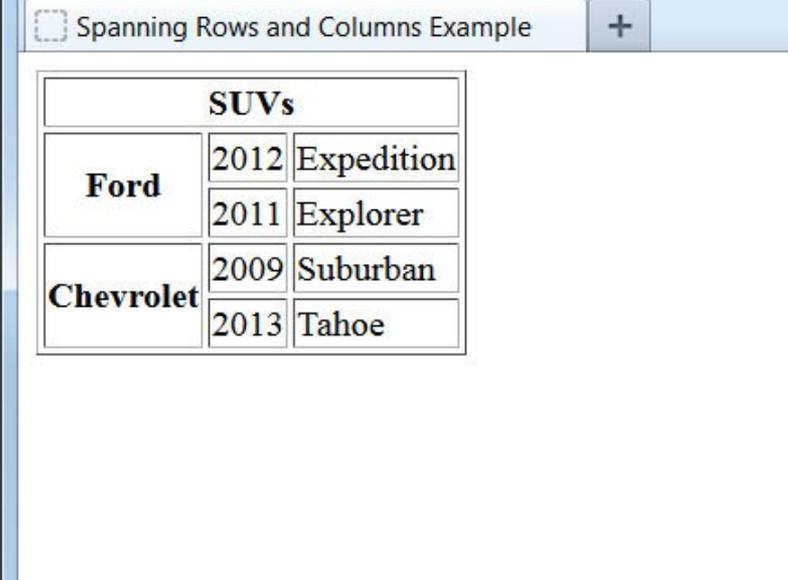
A browser window titled "Spanning Rows Example" displays a table with a border. The table has three rows and three columns. The first cell in the first row contains the text "Col 1 Row 1-3" and spans across all three rows. The other cells in the first row are "Row 1 Col 2" and "Row 1 Col 3". The second row contains "Row 2 Col 2" and "Row 2 Col 3". The third row contains "Row 3 Col 2" and "Row 3 Col 3". A red arrow points from the code block on the left to the first cell of the table in the browser window.

Col 1 Row 1-3	Row 1 Col 2	Row 1 Col 3
	Row 2 Col 2	Row 2 Col 3
	Row 3 Col 2	Row 3 Col 3

The **rowspan** attribute works the same way by informing the browser how many rows to combine into a single cell.

Example: Spanning Rows and Columns

```
<table border="1">
  <tr>
    <th colspan="3">SUVs</th>
  </tr>
  <tr>
    <th rowspan="2">Ford</th>
    <td>2012</td>
    <td>Expedition</td>
  </tr>
  <tr>
    <td>2011</td>
    <td>Explorer</td>
  </tr>
  <tr>
    <th rowspan="2">Chevrolet</th>
    <td>2009</td>
    <td>Suburban</td>
  </tr>
  <tr>
    <td>2013</td>
    <td>Tahoe</td>
  </tr>
</table>
```



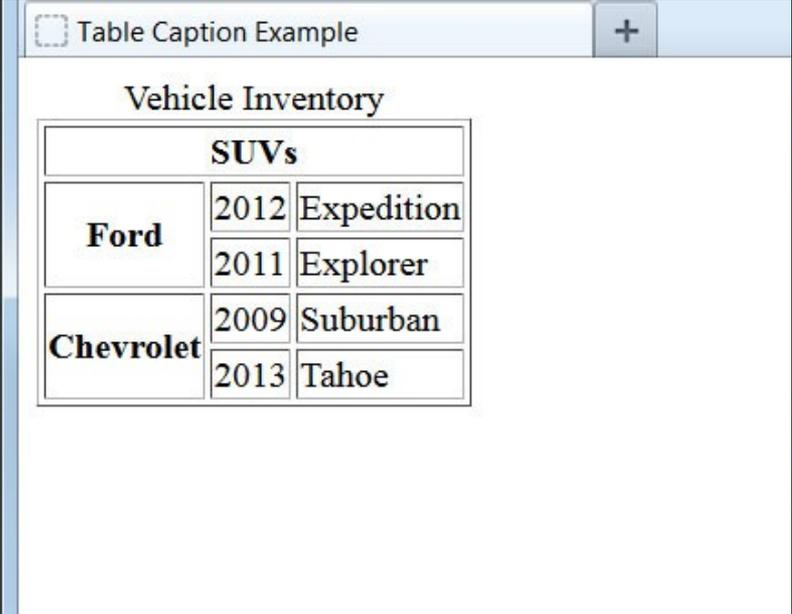
SUVs		
Ford	2012	Expedition
	2011	Explorer
Chevrolet	2009	Suburban
	2013	Tahoe

Both the **colspan** and **rowspan** features can be used in the same table to create a more complex table structure.

Notice that these two attributes can also be applied to table header elements, as we did in this example.

Adding a Table Caption

```
<table border="1">
  <caption>Vehicle Inventory</caption>
  <tr>
    <th colspan="3">SUVs</th>
  </tr>
  <tr>
    <th rowspan="2">Ford</th>
    <td>2012</td>
    <td>Expedition</td>
  </tr>
  <tr>
    <td>2011</td>
    <td>Explorer</td>
  </tr>
  ...
</table>
```

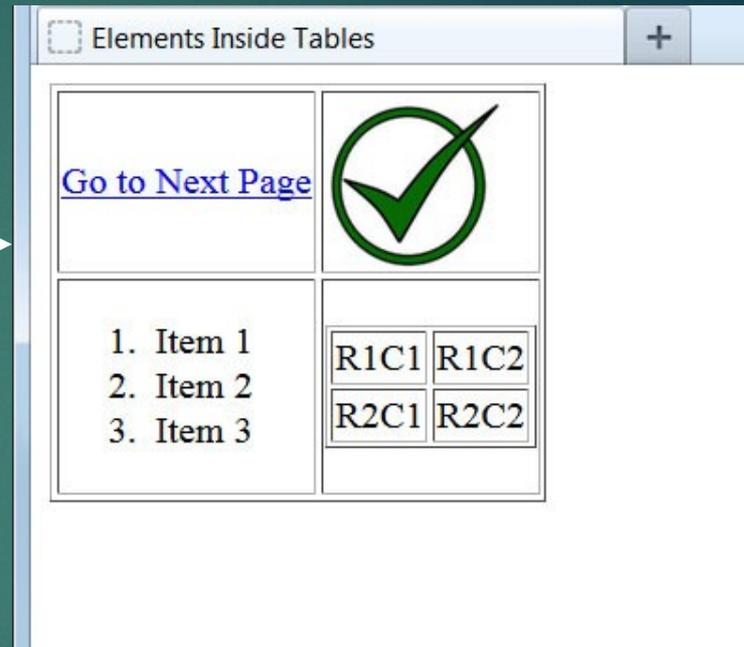


SUVs		
Ford	2012	Expedition
Ford	2011	Explorer
Chevrolet	2009	Suburban
Chevrolet	2013	Tahoe

To add a caption to the table, we use the `<caption>` element immediately after the opening `<table>` tag. The text enclosed within the `<caption>` element will be displayed above the table and centered.

Other Elements Inside Tables

```
<table border="1">
  <tr>
    <td>
      <p><a href="page2.html">Go to Next Page</a></p>
    </td>
    <td>
      
    </td>
  </tr>
  <tr>
    <td>
      <ol>
        <li>Item 1</li>
        <li>Item 2</li>
        <li>Item 3</li>
      </ol>
    </td>
    <td>
      <table border="1">
        <tr>
          <td>R1C1</td><td>R1C2</td>
        </tr>
        <tr>
          <td>R2C1</td><td>R2C2</td>
        </tr>
      </table>
    </td>
  </tr>
</table>
```



Many other elements can be placed inside table cells, including paragraphs, links, images, lists, and even other tables.