HTML Tables

## Defining an HTML Table

An HTML table is defined with the **<table>** tag.

Each table row is defined with the **<tr>** tag. A table header is defined with the **<th>** tag. By default, table headings are bold and centered. A table data/cell is defined with the **<td>** tag.

<table style="width:100%">  
  <tr>  
    <th>Firstname</th>  
    <th>Lastname</th>   
    <th>Age</th>  
  </tr>  
  <tr>  
    <td>Jill</td>  
    <td>Smith</td>   
    <td>50</td>  
  </tr>  
  <tr>  
    <td>Eve</td>  
    <td>Jackson</td>   
    <td>94</td>  
  </tr>  
</table>

**Note:** The <td> elements are the data containers of the table.  
They can contain all sorts of HTML elements; text, images, lists, other tables, etc.

## HTML Table - Adding a Border

If you do not specify a border for the table, it will be displayed without borders.

A border is set using the CSS **border** property:

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

Remember to define borders for both the table and the table cells.

## Adding Cell Padding

Cell padding specifies the space between the cell content and its borders.

If you do not specify a padding, the table cells will be displayed without padding.

To set the padding, use the CSS **padding** property:

th, td {  
    padding: 15px;  
}

## Left-align Headings

By default, table headings are bold and centered.

To left-align the table headings, use the CSS **text-align** property:

th {  
    text-align: left;  
}

## Adding Border Spacing

Border spacing specifies the space between the cells.

To set the border spacing for a table, use the CSS **border-spacing** property:

table {  
    border-spacing: 5px;  
}

**Note:** If the table has collapsed borders, border-spacing has no effect.

## Cells that Span Many Columns

To make a cell span more than one column, use the **colspan** attribute:

<table style="width:100%">  
  <tr>  
    <th>Name</th>  
    <th colspan="2">Telephone</th>  
  </tr>  
  <tr>  
    <td>Bill Gates</td>  
    <td>55577854</td>  
    <td>55577855</td>  
  </tr>  
</table>

## Cells that Span Many Rows

To make a cell span more than one row, use the **rowspan** attribute:

<table style="width:100%">  
  <tr>  
    <th>Name:</th>  
    <td>Bill Gates</td>  
  </tr>  
  <tr>  
    <th rowspan="2">Telephone:</th>  
    <td>55577854</td>  
  </tr>  
  <tr>  
    <td>55577855</td>  
  </tr>  
</table>

## Adding a Caption

To add a caption to a table, use the **<caption>** tag:

<table style="width:100%">  
  <caption>Monthly savings</caption>  
  <tr>  
    <th>Month</th>  
    <th>Savings</th>  
  </tr>  
  <tr>  
    <td>January</td>  
    <td>$100</td>  
  </tr>  
  <tr>  
    <td>February</td>  
    <td>$50</td>  
  </tr>  
</table>

**Note:** The <caption> tag must be inserted immediately after the <table> tag.

## Summary

* Use the HTML **<table>** element to define a table
* Use the HTML **<tr>** element to define a table row
* Use the HTML **<td>** element to define a table data
* Use the HTML **<th>** element to define a table heading
* Use the HTML **<caption>** element to define a table caption
* Use the CSS **border** property to define a border
* Use the CSS **border-collapse** property to collapse cell borders
* Use the CSS **padding** property to add padding to cells
* Use the CSS **text-align** property to align cell text
* Use the CSS **border-spacing** property to set the spacing between cells
* Use the **colspan** attribute to make a cell span many columns
* Use the **rowspan** attribute to make a cell span many rows
* Use the **id** attribute to uniquely define one table