Basic Table

Data is often best presented in tabular form, arranged in rows and columns to logically group related items, so it is easily understood.

In HTML, tables are created with **<table> </table>** tags, which provide a container for table rows. Each table row is created with **<tr> </tr>** tags, which provide a container for a line of table data cells. Each table data cell is created with **<td> </td>** tags, which enclose the actual data to be presented. Optionally, the **</td>** and **</tr>** closing tags may be omitted – either form of **<td>** and **<tr>** element is valid.

A **<table>** element will typically contain numerous **<tr>** elements to create a table displaying multiple rows of data. Similarly, each **<tr>** element will typically contain numerous **<td>** elements to create a table of multiple columns of data. It is important to note, however, that each **<tr>** row in the table must contain the exact same number of **<td>** cells – so, for example, if the first **<tr>** row contains five **<td>** cells, all **<tr>** rows must contain five **<td>** cells.

1   Create an HTML document

table.html

2   Within the body section, insert a table element
```
<table>
<!-- Table rows to go here. -->
</table>
```

3   Now, within the table element, insert three table rows – that each contain three table data cells
```
<tr> <td>Cell 1.1 <td>Cell 1.2 <td>Cell 1.3 </tr>
<tr> <td>Cell 2.1 <td>Cell 2.2 <td>Cell 2.3 </tr>
<tr> <td>Cell 3.1 <td>Cell 3.2 <td>Cell 3.3 </tr>
```
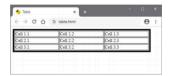
4   Add a style sheet to set the table width and border, cell borders, and borders of headings that will be added later
```
<style>
table { width : 500px ; border : 5px solid Black ; }
td,th { border : 1px solid Black ; }
</style>
```

Omit the closing **</td>** cell tags but include the closing **</tr>** tags to more clearly denote the end of each table row.

5 Save the HTML document, then open it in your browser to see a basic table

A table title can be specified with **<caption> </caption>** tags, and row and column headings can be added between **<th> </th>** tags.

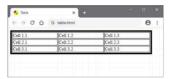**6** Immediately following the opening table tag, insert a caption title
<caption>A Basic Table</caption>

7 Next, insert a new row of four column headings
<tr><th><th>Column 1<th>Column 2<th>Column 3</tr>

8 Now, insert a heading at the start of each following row

<tr><th>Row 1<td>Cell 1.1<td>Cell 1.2<td>Cell 1.3</tr>
<tr><th>Row 2<td>Cell 2.1<td>Cell 2.2<td>Cell 2.3</tr>
<tr><th>Row 3<td>Cell 3.1<td>Cell 3.2<td>Cell 3.3</tr>

9 Save the edited HTML document, then refresh your browser to view the additions

If a **<caption>** element is to be included it must immediately follow the opening **<table>** tag.

The closing **</th>** tag is optional but the number of opening **<th>** headings must exactly match the number of rows and columns.