

Tables

A photograph of a computer workstation. In the foreground, a silver and blue wired computer mouse sits on a wooden desk, with a clear pen lying next to it. Behind the mouse is a white computer keyboard. In the background, a black computer monitor is visible, and to the right, a black speaker with a green light is on the desk. The scene is dimly lit, with light coming from the monitor and the speaker.

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Table tag

- A **table** commences with the `<table>` tag
- They are divided into **table rows** `<tr>`
- Each row is divided into data cells `<td>` representing **table data**
- The data cells can contain almost anything...
text, images, lists, paragraphs, forms, horizontal rules
and even nested tables themselves
- Tables can also have various formatting code applied,
including **table headers**, using `<th>`



Summary of starting a table

Description:	Tag:	Meaning:
Tag to commence table	<code><table></code>	Table
Table divided into rows	<code><tr></code>	Table Row
Rows containing cells	<code><td></code>	Table Data
Table Headers in top row	<code><th></code>	Table Header



Table attributes - border

- It is sometimes necessary to view a border of a table
- The table tag can include attributes such as size of border for the whole table...
`<table border="1">`
- Although it might be useful to view a table without a border being applied. In these instances, if the `<table>` tag is used without any border value being declared, the web browser will show contents of the table as if in columns and rows but without the divisional lines
- Most times a border for a table will be required. The examples shown herein all have a border to enable you to see the table more clearly within the web browser
- Try creating a table with a border and then one without a border, playing around with the many other attributes we will discover



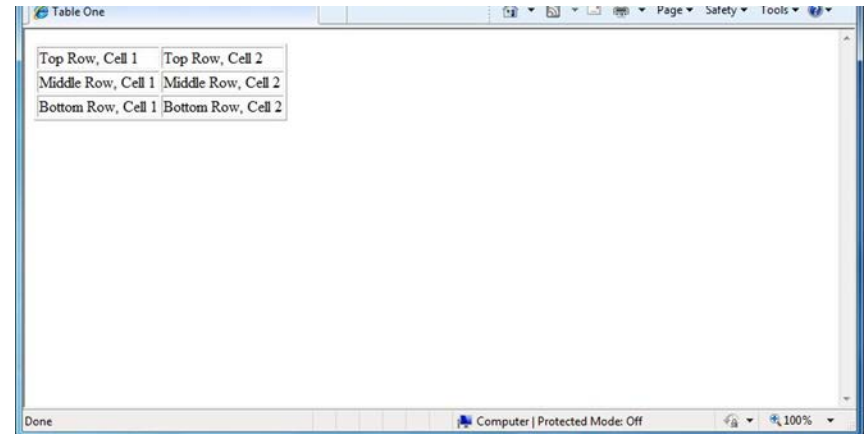
Table Example 1

3 Rows, each having 2 cells

Table 1 – code within Notepad

```
table1 - Notepad
File Edit Format View Help
<html>
<head>
<title>Table one</title>
</head>
<body>
<table border="1">
<tr>
<td>Top Row, Cell 1</td>
<td>Top Row, Cell 2</td>
</tr>
<tr>
<td>Middle Row, Cell 1</td>
<td>Middle Row, Cell 2</td>
</tr>
<tr>
<td>Bottom Row, Cell 1</td>
<td>Bottom Row, Cell 2</td>
</tr>
</table>
</body>
</html>
```

Table 1 – display within web browser showing 3 x 2



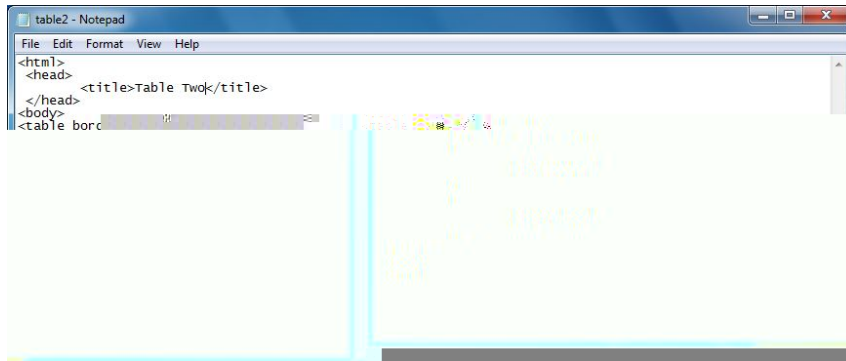
Top Row, Cell 1	Top Row, Cell 2
Middle Row, Cell 1	Middle Row, Cell 2
Bottom Row, Cell 1	Bottom Row, Cell 2



Table Example 2

Using Table Header Row

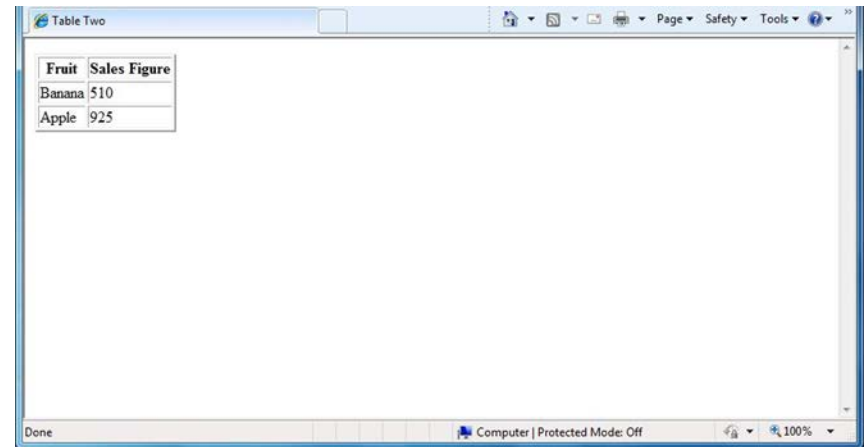
Table 2 – code within Notepad



A screenshot of a Notepad window titled 'table2 - Notepad'. The menu bar includes File, Edit, Format, View, and Help. The text area contains the following HTML code:

```
<html>
<head>
  <title>Table Two</title>
</head>
<body>
<table border="1">
  <thead>
    <tr>
      <th>Fruit</th>
      <th>Sales Figure</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Banana</td>
      <td>510</td>
    </tr>
    <tr>
      <td>Apple</td>
      <td>925</td>
    </tr>
  </tbody>
</table>
</body>
</html>
```

Table 2 – display within web browser showing headers



A screenshot of a web browser window titled 'Table Two'. The browser's address bar is empty. The page displays a table with two columns: 'Fruit' and 'Sales Figure'. The table contains two data rows: 'Banana' with a sales figure of 510, and 'Apple' with a sales figure of 925. The browser's status bar at the bottom shows 'Done' and 'Computer | Protected Mode: Off'.

Fruit	Sales Figure
Banana	510
Apple	925



Table ideas

- Empty cells are required on occasions but can be confusing to some web browsers, use the non breaking space special character within the code for any empty cells. Reminder of non breaking space ` `;
- Captions can be included by using the `<caption>` tag. Labelling tables in this manner adds sophistication as well as providing the user with an indication as to the exact data offered to them
- Table width (in pixels measurement) can be declared within the table tag along side the border, for example:
`<table width="500" border="2">`
- Aligning data within cells just means the use of the alignment attribute within header cells or data cells, for example:
`<td align="center">contents of cell here</td>`



Table Example 3

Using Caption, Width and Alignment

Table 3 – code within Notepad

```
table3 - Notepad
File Edit Format View Help
<html>
<head>
<title>Table Three</title>
</head>
<body>
<h4>Table using caption, width, border, alignment and table headers</h4>
<table width="500" border="2">
<caption>Town Sales and Total for Area</caption>
<tr>
<th align="left">Town</th>
<th align="right">Last Year</th>
<th align="right">This Year</th>
</tr>
<tr>
<td align="left">Greenock</td>
<td align="right">550</td>
<td align="right">811</td>
</tr>
<tr>
<td align="left">Jedburgh</td>
<td align="right">329</td>
<td align="right">144</td>
</tr>
<tr>
<td align="left">Johnstone</td>
<td align="right">203</td>
<td align="right">322</td>
</tr>
<tr>
<th align="left">Total</th>
<th align="right">1082</th>
<th align="right">1277</th>
</tr>
</table>
</body>
</html>
```

Table 3 – display within web browser showing various formatting

Town Sales and Total for Area		
Town	Last Year	This Year
Greenock	550	811
Jedburgh	329	144
Johnstone	203	322
Total	1082	1277



More Table Ideas

- Adding colour or image as a background combines other tags into the table. This same practice can incorporate various items, such as placing a table inside a cell or adding a font colour etc
- Adding colour to the whole of a table, example:
`<table border="1" bgcolor="red">`
- Adding colour to a cell, example:
`<tr>
 <td bgcolor="red">First</td>
 <td>Row</td>
</tr>`
- Padding around the contents of cells can provide a buffer between the border / outside of cells and the content, example:
`<table border="1" cellpadding="10">`
- It is useful to be able to have a header going across two columns. Don't worry ...we have a solution, use the colspan attribute, example:
`<tr> <th>Company</th>
 <th colspan="2">Contacts</th> </tr>`
The example shows the word "Company" in the first column header and the word "Contacts" across two columns. Try it out!



Table 4 - Summary Example Code

```
table4 - Notepad
File Edit Format View Help
<html>
<head>
  <title>Table Four</title>
</head>
<body>
  <h4>Table using caption, width, border, alignment, plus additional</h4>
  <table width="500" border="2" bgcolor="yellow" cellpadding="10">
    <caption>Sector Unit Forwarding and Despatch Details</caption>
    <tr>
      <th>&nbsp;</th>
      <th colspan="2">Computer Unit Shipping Totals</th>
    </tr>
    <tr>
      <th align="left">Country</th>
      <th align="right">PC based units</th>
      <th align="right">Laptop Mobiles</th>
    </tr>
    <tr>
      <td align="left">Scotland</td>
      <td align="right">550</td>
      <td align="right">811</td>
    </tr>
    <tr>
      <td align="left">Ireland</td>
      <td align="right">329</td>
      <td align="right">144</td>
    </tr>
    <tr>
      <td align="left">Switzerland</td>
      <td align="right">203</td>
      <td align="right">322</td>
    </tr>
    <tr>
      <th align="left" bgcolor="aqua">Grand Total</th>
      <th align="right">1082</th>
      <th align="right">1277</th>
    </tr>
  </table>
</body>
</html>
```



Table 4 - Summary Example – Display within web browser

Table using caption, width, border, alignment, plus additional

Sector Unit Forwarding and Despatch Details

	Computer Unit Shipping Totals	
Country	PC based units	Laptop Mobiles
Scotland	550	811
Ireland	329	144
Switzerland	203	322
Grand Total	1082	1277

Done

Computer | Protected Mode: Off

100%

