

2.3 Tables

There are several types of information that need to be displayed in a grid or table. For example: sports results, stock reports, and train timetables.

Basic tables structure

The **<table>** element is used to create a table. The contents of the table are written out row by row.

You indicate the start of each row using the opening **<tr>** tag. (The tr stands for table row). At the end of the row you use a closing **</tr>** tag.

Each cell of a table is represented using a **<td>** element. (The td stands for table data.)

Example) Create a table with the following information

Column 1	Column 2	Column 3
45	60	45
60	90	90

DISPLAY

```
<table>
  <tr> <td>Column 1</td> <td> Column 2</td> <td>Column 3</td> </tr>
  <tr align="center"> <td> 45</td> <td >60</td> <td>45</td></tr>
  <tr align="center"><td>60</td> <td>90</td> <td>90</td> </tr>
</table>
```

HTML

The **<th>** element is used just like the **<td>** element but its purpose is to represent the heading for either a column or a row. (The **th** stands for table heading.)

You can use the **scope** attribute on the **<th>** element to indicate whether it is a heading for a **column** or a **row**. It can take the values **row** to indicate a heading for a row or **col** to indicate a heading for a column.

Example) Create the following table

	Saturday	Sunday
Tickets sold:	120	135
Total sales:	\$600	\$675

DISPLAY

```
<table>
  <tr> <th></th> <th>Saturday</th> <th>Sunday</th></tr>
  <tr><th>Tickets sold:</th> <td align='center'>120</td> <td align='center'>135</td></tr>
  <tr><th>Total sales:</th> <td align='center'>$600</td> <td align='center'>$675</td></tr>
</table>
```

HTML

Border and background

The **border** attribute was used on both the <table> and <td> elements to indicate the width of the border in pixels.

The **bgcolor** attribute was used to indicate background colors of either the entire table or individual table cells.

Color can code in three ways:

- By the color name such as red, blue, green, black, lightblue, etc
- By the hex color palette code. You can get the hex color palette in: <http://www.color-hex.com/color-palettes>
- By the combination of RGB code.

Example) Create a following table with table border = 2px, table background **yellow** , 2nd row to **pink** , and one cell to **lightgreen**

```
<table border="2" bgcolor="yellow">
  <tr>
    <th width="100"></th><th width="100">Withdrawn</th><th width="100">Credit</th>
    <th width="100">Balance</th></tr>
  <tr align="center" bgcolor="pink">
    <th>January</th><td>$250.00</td><td>$660.50</td><td>$410.50</td></tr>
  <tr align="center">
    <th>February</th><td>$135.55</td><td>$895.20</td><td bgcolor="lightblue">$1170.15</td></tr>
</table>
```

HTML

	Withdrawn	Credit	Balance
January	\$250.00	\$660.50	\$410.50
February	\$135.55	\$895.20	\$1170.15

DISPLAY

Table header, body, and footer

<thead>, <tbody>, and <tfooter> elements to specify each part of a table (body, header, footer).

Browsers can use these elements to enable scrolling of the table body independently of the header and footer. Also, when printing a large table that spans multiple pages, these elements can enable the table header and footer to be printed at the top and bottom of each page.