# **HTML Tables**

Tables were originally created for displaying tabular data and for this they are ideal. Web page designers also use them create Web page layout. In this lesson you will learn how to write the HTML code for a very useful HTML element - The table.

You will learn: How to

* Create a simple table, followed by more complex ones.
* Display borders to the table.
* Coloring table cells.
* How to place HTML elements inside a table cell.
* Create nested tables

|  |
| --- |
| Exercise 1 Use a text editor or IDE to create your first HTML Table, which contain 4 cells. Add the below content to it, copy between the lines  <!DOCTYPE html>  <html>      <head>          <title>My First Webpage Layout</title>      </head>      <body>          <h1>HTML Table Exercise</h1>          <hr>          <TABLE width="100">              <CAPTION>My Purchases</CAPTION>              <tr>                  <th>Purchase</th>                  <th>Location</th>                  <th>Date</th>                  <th>Evaluation</th>                  <th>Cost</th>              </tr>              <tr>                  <td>Haircut</td>                  <td>Hairdresser</td>                  <td>07/08</td>                  <td>Great idea</td>                  <td>30</td>              </tr>              <tr>                  <td>Biriyani</td>                  <td>Restaurant</td>                  <td>07/08</td>                  <td>Regrets</td>                  <td>180</td>               </tr>              <tr>                  <td>Shoes</td>                  <td>Shoeshop</td>                  <td>07/08</td>                  <td>Big regrets</td>                  <td>6500</td>              </tr>              <tr>                  <td>Toothpaste</td>                  <td>Supermarket</td>                  <td>07/04</td>                  <td>Good</td>                  <td>5</td>              </tr>              <tr>                  <td>SUM</td>                  <td>6715</td>              </tr>         </TABLE>      </body>  </html>  Save file with a .html extension, Open it up in a browser. |

# Exercise 2

Now let’s add border to a table and see the differences

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="1">

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

Save file, Open it up in a browser.

# Exercise 3

Now let’s increase the size of the border and see the difference

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5">

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

Save the file and open in browser.

# Exercise 4

“Cellspacing” in table is used to set margin between table cells and table border. Default “cellspacing” is 2px.

Now let’s make table with “cellspacing=0”

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="0">

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

Save the file and open in browser

# Exercise 5

Now let’s make table cellspacing to 10, see the difference

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="10">

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

# Exercise 6

“Cellpadding” means padding of text or content inside table cell from the table border. Default cell padding is 1px.

Now let’s make table cellpadding to “0”

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="10" cellpadding="0">

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

Save the file and open in browser.

# Exercise 7

Now let’s make cellpadding to “10” and observe the difference

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="10" cellpadding="10">

            <CAPTION>Table 1</CAPTION>

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

Save the file and open in browser.

# Exercise 8

Align attribute is used inside table tag, tr, or td to align text.

Now let’s align the table to center of the page, also try out “align=left” and “align=right”

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="10" cellpadding="10" align="center">

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

Save the file and open in browser

# Exercise 9

Now add some color to table

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="10" cellpadding="10" align="center" bgcolor="#F5F5F5">

            <CAPTION>My Purchases</CAPTION>

            <tr>

                <th>Purchase</th>

                <th>Location</th>

                <th>Date</th>

                <th>Evaluation</th>

                <th>Cost</th>

            </tr>

            <tr>

                <td>Haircut</td>

                <td>Hairdresser</td>

                <td>07/08</td>

                <td>Great idea</td>

                <td>30</td>

            </tr>

            <tr>

                <td>Biriyani</td>

                <td>Restaurant</td>

                <td>07/08</td>

                <td>Regrets</td>

                <td>180</td>

             </tr>

            <tr>

                <td>Shoes</td>

                <td>Shoeshop</td>

                <td>07/08</td>

                <td>Big regrets</td>

                <td>6500</td>

            </tr>

            <tr>

                <td>Toothpaste</td>

                <td>Supermarket</td>

                <td>07/04</td>

                <td>Good</td>

                <td>5</td>

            </tr>

            <tr>

                <td>SUM</td>

                <td>6715</td>

            </tr>

       </TABLE>

    </body>

</html>

Save the file and open it in browser, change different colors and try out.

# Exercise 10

Introducing <thead>, <tbody>, <tfooter>

Now let’s copy the code again and observe the differences

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="10" cellpadding="10" align="center" bgcolor="#F5F5F5">

            <CAPTION>My Purchases</CAPTION>

            <thead>

                <tr>

                    <th>Purchase</th>

                    <th>Location</th>

                    <th>Date</th>

                    <th>Evaluation</th>

                    <th>Cost</th>

                </tr>

            </thead>

            <tbody>

                <tr>

                    <td>Haircut</td>

                    <td>Hairdresser</td>

                    <td>07/08</td>

                    <td>Great idea</td>

                    <td>30</td>

                </tr>

                <tr>

                    <td>Biriyani</td>

                    <td>Restaurant</td>

                    <td>07/08</td>

                    <td>Regrets</td>

                    <td>180</td>

                </tr>

                <tr>

                    <td>Shoes</td>

                    <td>Shoeshop</td>

                    <td>07/08</td>

                    <td>Big regrets</td>

                    <td>6500</td>

                </tr>

                <tr>

                    <td>Toothpaste</td>

                    <td>Supermarket</td>

                    <td>07/04</td>

                    <td>Good</td>

                    <td>5</td>

                </tr>

            </tbody>

            <tfoot>

                <tr>

                    <td>SUM</td>

                    <td>6715</td>

                </tr>

            </tfoot>

       </TABLE>

    </body>

</html>

Save the file and open in browser

# Exercise 11

Just look the table alright, reduce the cell padding and cell spacing to “1”.

Now add different bgcolor to header & footer tags and observe the difference

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="1" cellpadding="1" align="center" bgcolor="#F5F5F5">

            <CAPTION>My Purchases</CAPTION>

            <thead bgcolor="#BEBEBE">

                <tr>

                    <th>Purchase</th>

                    <th>Location</th>

                    <th>Date</th>

                    <th>Evaluation</th>

                    <th>Cost</th>

                </tr>

            </thead>

            <tbody>

                <tr>

                    <td>Haircut</td>

                    <td>Hairdresser</td>

                    <td>07/08</td>

                    <td>Great idea</td>

                    <td>30</td>

                </tr>

                <tr>

                    <td>Biriyani</td>

                    <td>Restaurant</td>

                    <td>07/08</td>

                    <td>Regrets</td>

                    <td>180</td>

                </tr>

                <tr>

                    <td>Shoes</td>

                    <td>Shoeshop</td>

                    <td>07/08</td>

                    <td>Big regrets</td>

                    <td>6500</td>

                </tr>

                <tr>

                    <td>Toothpaste</td>

                    <td>Supermarket</td>

                    <td>07/04</td>

                    <td>Good</td>

                    <td>5</td>

                </tr>

            </tbody>

            <tfoot bgcolor="#BEBEBE">

                <tr>

                    <td>SUM</td>

                    <td>6715</td>

                </tr>

            </tfoot>

       </TABLE>

    </body>

</html>

Save the file and open in browser

# Exercise 12

Colspan and Rowspan.

Now copy the code below and observe the difference. The below examples uses Colspan and you can also use Rowspan to span the rows.

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="1" cellpadding="1" align="center" bgcolor="#F5F5F5">

            <CAPTION>My Purchases</CAPTION>

            <thead bgcolor="#BEBEBE">

                <tr>

                    <th>Purchase</th>

                    <th>Location</th>

                    <th>Date</th>

                    <th>Evaluation</th>

                    <th>Cost</th>

                </tr>

            </thead>

            <tbody>

                <tr>

                    <td>Haircut</td>

                    <td>Hairdresser</td>

                    <td>07/08</td>

                    <td>Great idea</td>

                    <td>30</td>

                </tr>

                <tr>

                    <td>Biriyani</td>

                    <td>Restaurant</td>

                    <td>07/08</td>

                    <td>Regrets</td>

                    <td>180</td>

                </tr>

                <tr>

                    <td>Shoes</td>

                    <td>Shoeshop</td>

                    <td>07/08</td>

                    <td>Big regrets</td>

                    <td>6500</td>

                </tr>

                <tr>

                    <td>Toothpaste</td>

                    <td>Supermarket</td>

                    <td>07/04</td>

                    <td>Good</td>

                    <td>5</td>

                </tr>

            </tbody>

            <tfoot bgcolor="#BEBEBE">

                <tr>

                    <td colspan="4">SUM</td>

                    <td>6715</td>

                </tr>

            </tfoot>

       </TABLE>

    </body>

</html>

Save the file and open in browser

# Exercise 13

Now include one more column called “Images” and add images inside the table cell.

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="1" cellpadding="1" align="center" bgcolor="#F5F5F5">

            <CAPTION>My Purchases</CAPTION>

            <thead bgcolor="#BEBEBE">

                <tr>

                    <th>Purchase</th>

                    <th>image</th>

                    <th>Location</th>

                    <th>Date</th>

                    <th>Evaluation</th>

                    <th>Cost</th>

                </tr>

            </thead>

            <tbody>

                <tr>

                    <td>Haircut</td>

                    <td><img src="images/haircut.jpg" alt="HairCut"></td>

                    <td>Hairdresser</td>

                    <td>07/08</td>

                    <td>Great idea</td>

                    <td>30</td>

                </tr>

                <tr>

                    <td>Biriyani</td>

                    <td><img src="images/biryani.jpg" alt="Biryani"></td>

                    <td>Restaurant</td>

                    <td>07/08</td>

                    <td>Regrets</td>

                    <td>180</td>

                </tr>

                <tr>

                    <td>Shoes</td>

                    <td><img src="images/shoes.jpg" alt="Shoes"></td>

                    <td>Shoeshop</td>

                    <td>07/08</td>

                    <td>Big regrets</td>

                    <td>6500</td>

                </tr>

                <tr>

                    <td>Toothpaste</td>

                    <td><img src="images/Toothpaste.jpg" alt="Toothpaste"></td>

                    <td>Supermarket</td>

                    <td>07/04</td>

                    <td>Good</td>

                    <td>5</td>

                </tr>

            </tbody>

            <tfoot bgcolor="#BEBEBE">

                <tr>

                    <td colspan="4">SUM</td>

                    <td>6715</td>

                </tr>

            </tfoot>

       </TABLE>

    </body>

</html>

Save the file and open in browser. Now observer the below differences

* Images are different size, impacting table cell size. Set same height and width for the images
* Footer column disturbed, increase colspan to “5”.

Now copy the code below and see the differences

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <TABLE width="100" border="5" cellspacing="1" cellpadding="1" align="center" bgcolor="#F5F5F5">

            <CAPTION>My Purchases</CAPTION>

            <thead bgcolor="#BEBEBE">

                <tr>

                    <th>Purchase</th>

                    <th>image</th>

                    <th>Location</th>

                    <th>Date</th>

                    <th>Evaluation</th>

                    <th>Cost</th>

                </tr>

            </thead>

            <tbody>

                <tr>

                    <td>Haircut</td>

                    <td><img src="images/haircut.jpg" alt="HairCut" width="100px" height="100px"></td>

                    <td>Hairdresser</td>

                    <td>07/08</td>

                    <td>Great idea</td>

                    <td>30</td>

                </tr>

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                    <td>Biriyani</td>

                    <td><img src="images/biryani.jpg" alt="Biryani" width="100px" height="100px"></td>

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                    <td>Shoes</td>

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                    <td>Big regrets</td>

                    <td>6500</td>

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                    <td>Toothpaste</td>

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                    <td>Good</td>

                    <td>5</td>

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            </tbody>

            <tfoot bgcolor="#BEBEBE">

                <tr>

                    <td colspan="5">SUM</td>

                    <td>6715</td>

                </tr>

            </tfoot>

       </TABLE>

    </body>

</html>

# Exercise 14

Nested Table: Inserting one table to another

Copy the below html code

<!DOCTYPE html>

<html>

    <head>

        <title>My First Webpage Layout</title>

    </head>

    <body>

        <h1>HTML Table Exercise</h1>

        <hr>

        <table border="1">

            <tr>

             <th>title1</th>

             <th>title2</th>

             <th>title3</th>

            </tr>

            <tr>

             <td>

                <TABLE width="100" border="5" cellspacing="1" cellpadding="1" align="center" bgcolor="#F5F5F5">

                    <CAPTION>My Purchases</CAPTION>

                    <thead bgcolor="#BEBEBE">

                        <tr>

                            <th>Purchase</th>

                            <th>image</th>

                            <th>Location</th>

                            <th>Date</th>

                            <th>Evaluation</th>

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                        </tr>

                    </thead>

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                            <td>Hairdresser</td>

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                            <td>Shoes</td>

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                            <td>Toothpaste</td>

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                            <td>Supermarket</td>

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                            <td>Good</td>

                            <td>5</td>

                        </tr>

                    </tbody>

                    <tfoot bgcolor="#BEBEBE">

                        <tr>

                            <td colspan="5">SUM</td>

                            <td>6715</td>

                        </tr>

                    </tfoot>

                 </TABLE>

             </td>

             <td>cell2</td>

             <td>cell3</td>

            </tr>

            <tr>

             <td>cell4</td>

             <td>cell5</td>

             <td>cell6</td>

            </tr>

         </table>

    </body>

</html>

Save the file and observer the difference