



HTML: Tables

- The HTML tables arrange data like text, images, links, other tables, etc. into rows and columns of cells
- 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

Example

```
<!DOCTYPE html>
<html>

  <head>
    <title>HTML Tables</title>
  </head>

  <body>
    <table border = "1">
      <tr>
        <td>Row 1, Column 1</td>
        <td>Row 1, Column 2</td>
      </tr>

      <tr>
        <td>Row 2, Column 1</td>
        <td>Row 2, Column 2</td>
      </tr>
    </table>

  </body>
</html>
```

OUTPUT

Row 1, Column 1	Row 1, Column 2
Row 2, Column 1	Row 2, Column 2

Table Heading

- Defined using **<th>** tag
- Used to represent the heading row
- Can be used in any row
- Headings are centered and bold by default

Output

Name	Salary
Ramesh Raman	5000
Shabbir Hussein	7000

```
<!DOCTYPE html>
<html>

  <head>
    <title>HTML Table Header</title>
  </head>

  <body>
    <table border = "1">
      <tr>
        <th>Name</th>
        <th>Salary</th>
      </tr>
      <tr>
        <td>Ramesh Raman</td>
        <td>5000</td>
      </tr>
      <tr>
        <td>Shabbir Hussein</td>
        <td>7000</td>
      </tr>
    </table>
  </body>

</html>
```

Cellpadding and Cellspacing Attributes

- Adjust the white space in table cells
- Cellspacing** : defines space between table cells
- Cellpadding** : represents the distance between cell borders and the content within a cell

Name	Salary
Ramesh Raman	5000
Shabbir Hussein	7000

```
<!DOCTYPE html>
<html>

  <head>
    <title>HTML Table Cellpadding</title>
  </head>

  <body>
    <table border = "1" cellpadding = "20" cellspacing = "5">
      <tr>
        <th>Name</th>
        <th>Salary</th>
      </tr>
      <tr>
        <td>Ramesh Raman</td>
        <td>5000</td>
      </tr>
      <tr>
        <td>Shabbir Hussein</td>
        <td>7000</td>
      </tr>
    </table>
  </body>

</html>
```

Colspan and Rowspan Attributes

- **Colspan:** merge two or more columns into a single column
- **Rowspan:** merge two or more rows

Column 1	Column 2	Column 3
Row 1 Cell 1	Row 1 Cell 2	Row 1 Cell 3
	Row 2 Cell 2	Row 2 Cell 3
Row 3 Cell 1		

```
<html>
<head>
  <title>HTML Table Colspan/Rowspan</title>
</head>

<body>
  <table border = "1">
    <tr>
      <th>Column 1</th>
      <th>Column 2</th>
      <th>Column 3</th>
    </tr>
    <tr>
      <td rowspan = "2">Row 1 Cell 1</td>
      <td>Row 1 Cell 2</td>
      <td>Row 1 Cell 3</td>
    </tr>
    <tr>
      <td>Row 2 Cell 2</td>
      <td>Row 2 Cell 3</td>
    </tr>
    <tr>
      <td colspan = "3">Row 3 Cell 1</td>
    </tr>
  </table>
</body>
</html>
```

Table background can be set using –

- **b bgcolor** attribute – set background color for whole table or just for one cell
- **background** attribute – set background image for whole table or just for one cell
- **bordercolor** attribute - set border color

Column 1	Column 2	Column 3
Row 1 Cell 1	Row 1 Cell 2	Row 1 Cell 3
	Row 2 Cell 2	Row 2 Cell 3
Row 3 Cell 1		

```
<html>
<head>
  <title>HTML Table Background</title>
</head>

<body>
  <table border = "1" bordercolor = "red" bgcolor = "sky blue">
    <tr>
      <th>Column 1</th>
      <th>Column 2</th>
      <th>Column 3</th>
    </tr>
    <tr>
      <td rowspan = "2">Row 1 Cell 1</td>
      <td>Row 1 Cell 2</td>
      <td>Row 1 Cell 3</td>
    </tr>
    <tr>
      <td>Row 2 Cell 2</td>
      <td>Row 2 Cell 3</td>
    </tr>
    <tr>
      <td colspan = "3">Row 3 Cell 1</td>
    </tr>
  </table>
</body>
</html>
```

```

<!DOCTYPE html>
<html>

  <head>
    <title>HTML Table Background</title>
  </head>

  <body>
    <table border = "1" bordercolor = "green" >
      <tr>
        <th>Column 1</th>
        <th>Column 2</th>
        <th>Column 3</th>
      </tr>
      <tr background = "test.jpg">
        <td rowspan = "2">Row 1 Cell 1</td>
        <td>Row 1 Cell 2</td><td>Row 1 Cell 3</td>
      </tr>
      <tr>
        <td>Row 2 Cell 2</td>
        <td>Row 2 Cell 3</td>
      </tr>
      <tr>
        <td colspan = "3">Row 3 Cell 1</td>
      </tr>
    </table>
  </body>

</html>
  
```

Column 1	Column 2	Column 3
Row 1 Cell 1	Row 1 Cell 2	Row 1 Cell 3
	Row 2 Cell 2	Row 2 Cell 3
Row 3 Cell 1		

— Table Height and Width

- Set a table width and height
- Specify table width or height in terms of pixels or percentage of available screen area

Row 1, Column 1	Row 1, Column 2
Row 2, Column 1	Row 2, Column 2

```
<html>

<head>
  <title>HTML Table Width/Height</title>
</head>

<body>
  <table border = "1" width = "400" height = "150">
    <tr>
      <td>Row 1, Column 1</td>
      <td>Row 1, Column 2</td>
    </tr>

    <tr>
      <td>Row 2, Column 1</td>
      <td>Row 2, Column 2</td>
    </tr>
  </table>
</body>

</html>
```

Caption

- Serve as a title or explanation for the table
- It shows up at the top of the table

```
<!DOCTYPE html>
<html>

  <head>
    <title>HTML Table Caption</title>
  </head>

  <body>
    <table border = "1" width = "100%">
      <caption>This is the caption</caption>

      <tr>
        <td>row 1, column 1</td><td>row 1, columnn 2</td>
      </tr>

      <tr>
        <td>row 2, column 1</td><td>row 2, columnn 2</td>
      </tr>
    </table>
  </body>

</html>
```

This is the caption

row 1, column 1	row 1, columnn 2
row 2, column 1	row 2, columnn 2

Header, body and Footer

Tables can be divided into three portions

- Header
- Body
- Foot

This is the head of the table			
Cell 1	Cell 2	Cell 3	Cell 4
This is the foot of the table			

```
<!DOCTYPE html>
<html>
  <head>
    <title>HTML Table</title>
  </head>
  <body>
    <table border = "1" width = "30%">
      <thead>
        <tr>
          <td colspan = "4">This is the head of the table</td>
        </tr>
      </thead>
      <tfoot>
        <tr>
          <td colspan = "4">This is the foot of the table</td>
        </tr>
      </tfoot>
      <tbody>
        <tr>
          <td>Cell 1</td>
          <td>Cell 2</td>
          <td>Cell 3</td>
          <td>Cell 4</td>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```

- The three elements for separating the head, body, and foot are –
 - **<thead>** – to create a separate table header
 - **<tbody>** – to indicate the main body of the table
 - **<tfoot>** – to create a separate table footer

Nested Tables

- One table inside another table
- Not only tables, but one can use almost all the tags inside table data tag <td>

Name	Salary	
Ramesh Raman	5000	
Shabbir Hussein	7000	

```
<html>
  <head>
    <title>HTML Table</title>
  </head>
  <body>
    <table border = "1" width = "30%">
      <tr>
        <td>
          <table border = "1" width = "20%">
            <tr>
              <th>Name</th>
              <th>Salary</th>
            </tr>
            <tr>
              <td>Ramesh Raman</td>
              <td>5000</td>
            </tr>
            <tr>
              <td>Shabbir Hussein</td>
              <td>7000</td>
            </tr>
          </table>
        </td>
      </tr>
    </table>
  </body>
</html>
```

In this session, you have learned that:

<u>TAG</u>	<u>DESCRIPTION</u>
<table>	Defines a table
<th>	Defines a header cell in a table
<tr>	Defines a row in a table
<td>	Defines a cell in a table
<caption>	Defines a table caption
<colgroup>	Specifies a group of one or more columns in a table for formatting
<col>	Specifies column properties for each column within a <colgroup> element
<thead>	Groups the header content in a table
<tbody>	Groups the body content in a table
<tfoot>	Groups the footer content in a table



HTML: Blocks

Block Elements

Block elements appear on the screen as if they have a line break before and after them. For example, the `<p>`, `<h1>`, `<h2>`, `<h3>`, `<h4>`, `<h5>`, `<h6>`, ``, ``, `<dl>`, `<pre>`, `<hr />`, `<blockquote>`, and `<address>` elements are all block level elements. They all start on their own new line, and anything that follows them appears on its own new line.

Inline Elements

Inline elements, on the other hand, can appear within sentences and do not have to appear on a new line of their own. The ``, `<i>`, `<u>`, ``, ``, `<sup>`, `<sub>`, `<big>`, `<small>`, ``, `<ins>`, ``, `<code>`, `<cite>`, `<dfn>`, `<kbd>`, and `<var>` elements are all inline elements.

Grouping HTML Elements

There are two important tags which we use very frequently to group various other HTML tags (i) `<div>` tag and (ii) `` tag

The `<div>` tag

This is the very important block level tag which plays a big role in grouping various other HTML tags and applying CSS on group of elements. Even now `<div>` tag can be used to create webpage layout where we define different parts (Left, Right, Top etc.) of the page using `<div>` tag. This tag does not provide any visual change on the block but this has more meaning when it is used with CSS.


```
<!DOCTYPE html>
<html>

<head>
  <title>HTML div Tag</title>
</head>

<body>
  <!-- First group of tags -->
  <div style = "color:red">
    <h4>This is first group</h4>
    <p>Following is a list of vegetables</p>

    <ul>
      <li>Beetroot</li>
      <li>Ginger</li>
      <li>Potato</li>
      <li>Radish</li>
    </ul>
  </div>

  <!-- Second group of tags -->
  <div style = "color:green">
    <h4>This is second group</h4>
    <p>Following is a list of fruits</p>

    <ul>
      <li>Apple</li>
      <li>Banana</li>
      <li>Mango</li>
      <li>Strawberry</li>
    </ul>
  </div>
</body>

</html>
```

This is first group

Following is a list of vegetables

- Beetroot
- Ginger
- Potato
- Radish

This is second group

Following is a list of fruits

- Apple
- Banana
- Mango
- Strawberry

Thank You