

Web Basics – HTML5

Lesson 2. Tables

Lesson Objectives



After completing this module, you will be able to:

- Understand the structure of an HTML table.
- Controlling table format



Creating Tables

Table contains data in the format of rows and columns.

For an example, department information's are displayed in the tabular format as shown below

Deptno	Dname	Location
10	Accounting	New York
20	Research	Dallas
30	Sales	Chicago
40	Operation	Boston

→ Row

↓ Column

The above "Department" table contains 4 rows and 2 columns.
"Deptno" "Dname" "Location"



Creating Tables

An HTML table can be created using `<table>` elements

- `<table>`
 - Define an HTML table
 - Other elements like `<tr>`, `<caption>`, .. can be nested inside `<table>` element

An HTML table has two kinds of cells

- Header Cells
 - `<th>`
 - Defines a table header

Standard Cells

- `<tr>`
 - Defines a table row
 - A row can have one or more `<td>` or `<th>` elements

`<td>`

- Defines a table cell data

Employee Name	Salary
Lathika	55000
Sandeep	32000
Ajay	99322

Header
Cells

Standard
Cells



Creating Tables

Syntax

```
<table>  
  <tr> <th>Column1 Header</th> <th>Column2  
Header</th></tr>  
  <tr> <td>Cell 1,1</td> <td>Cell 1,2</td>  
</tr>  
  <tr> <td>Cell 2,1</td> <td>Cell 2,2</td>  
</tr>  
</table>
```

Creating Tables



Some more elements which can be used while creating tables are:

- `<thead>`
 - Group header content in an HTML table
- `<tbody>`
 - Group the body content in an HTML table
- `<tfoot>`
 - Group footer content in an HTML table
- `<caption>`
 - Defines a caption for the table
 - `<caption>` element should follow with `<table>` element immediately.
 - `<caption>` element value will be center aligned and displayed above the table



Creating Tables

Syntax

Table column headings:

```
<table>
```

```
    <caption>This is table caption</caption>
```

```
<tr>
```

```
<th>COLUMN 1</th>
```

```
<th>COLUMN 2</th>
```

```
<th>COLUMN 3</th>
```

```
</tr>
```

```
</table>
```



Creating Tables

Syntax

```
<table>
<thead>
<tr><td>.....</td></tr>
</thead>
<tfoot>
<tr><td>.....</td></tr>
</tfoot>
<tbody>
<tr><td>....</td></tr>
<tbody>
</table>
```


Blank Data Cell (Code)



Inserting Blank Data Cell :

- `<td></td>`
- `<td>
</td>`

Creating Tables



Tableheading.html



Nested Tables (Code)

A cell can contain another table within it.

```
<table>
<tr> <th>Zone</th> <th> State </th> </tr>
<tr> <td>South</td>
<td><table>
<tr> <th>Name</th> <th>Capital City</th> </tr>
<tr> <td>Karnataka</td> <td>Bangalore</td> </tr>
<tr> <td>Tamilnadu</td> <td>Chennai</td> </tr>
<tr> <td>Andhra Pradesh</td> <td>Hyderabad</td>
</tr>
</table> </td> </tr>
</table>
```

Zone	State	
South	Name	Capital City
	Karnataka	Bangalore
	Tamilnadu	Chennai
	Andhra Pradesh	Hyderabad



[tabnest4.htm](#)



Table Formatting

Cell Spanning

- Table cells can span across more than one column or row.
- Types of cell spanning
 - Row spanning
 - Column spanning

Example of Colspan

Employee Name	Salary
HR	
Lathika	55000
Sandeep	32000
SALES	
Sonia	43000
Raju	30022
Ajay	99932

■ Example of Rowspan

Department Name	Employee Name	Salary
HR	Lathika	55000
	Sandeep	32000
Sales	Sonia	43000
	Raju	30022
	Ajay	99932



Cell Spanning (Code)

Row spanning/Column spanning:

- Use rowspan and colspan attribute either in <td> or <th> element.

```
<table>
  <tr>
    <th rowspan=m>Multiple Column
Header</th>
    <th colspan=n>Multiple Row
Header</th>
  </tr>
</table>
```

m

ctively.



Cell Spanning Demo

Deptno	Name	Salary
10	Sita	34000
	Ram	24000
20	Laksman	45000
	Lava	32000
	Kusha	42000
Total Salary		1222

Table-span.html



Grouping of Columns

`<colgroup>` tag specifies a group of one or more columns in a table for formatting

The `<col>` tag specifies column properties for each column within a `<colgroup>` element.

Use `<colgroup>` and `<col>` tags to group columns with common properties like

- Span attribute :
 - Identifies number of columns in the current group.
 - Default value is 1
 - Provide span attribute and omit `<col>` tag

Example for grouping 3 columns and applying background color as green

```
<table>
  <colgroup span="3" style="background-color:green"> </colgroup>
  <col>
  <col>
  <tr>
    table contents.....
  </tr>
</table>
```


Demo



[tabcol3.htm](#)

Lab



Lab 2

Lesson Summary



After completing this module you know:

- Structure of an HTML table
- Control table format such as cell spanning
- Use tables to format contents of an HTML Page.



Review - Questions



Question 1: Cell spanning is used to joining cells together to make a larger cell.

- True/False

Question 2: The `<col>` tag defines the attribute values for one or more columns in a table.

- True/ False

Question 3: In which tag usage of rowspan/colspan attribute is valid?

- `<th>`
- `<tr>`
- `<td>`
- None of the above

