

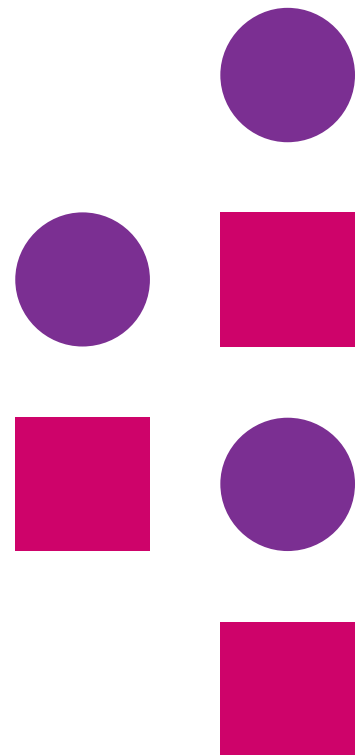
Tables, Lists

Hypertext Markup Language 5
(HTML5)



Table of Content

- Tables
- Lists



Tables

(Hypertext Markup Language 5)

Table Tags

Tag	Description
<code><table></code>	Table is defined with this tag
<code><th></code>	Defines a header cell in a table
<code><tr></code>	Defines a row in a table
<code><td></code>	Defines a cell in a table
<code><caption></code>	Defines a table caption
<code><colgroup></code>	Specifies a group of one or more columns in a table for formatting
<code><col></code>	Specifies column properties for each column within a <code><colgroup></code> element

Table Tags

Tag	Description
<code><thead></code>	Groups the header content in a table
<code><tbody></code>	Groups the body content in a table
<code><tfoot></code>	Groups the footer content in a table

Table tags

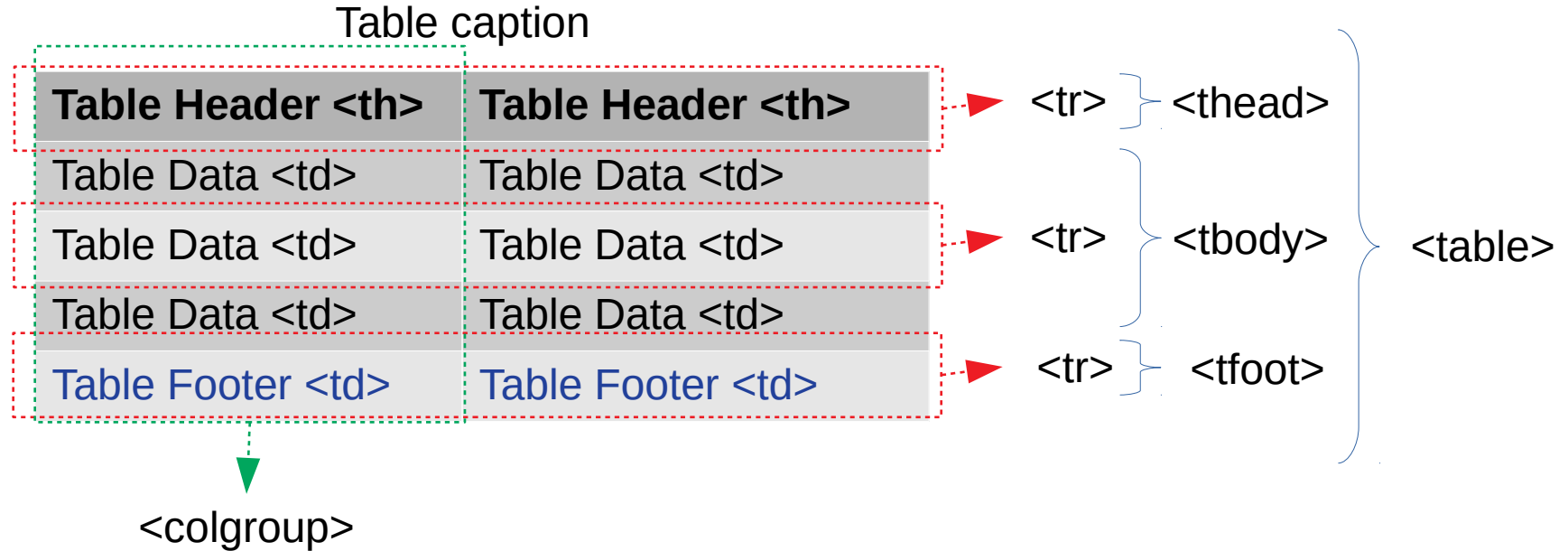


Table tags

Students details

Name	Class	Section
Kamal Hasan	10	B
Rajanikanth	10	A

Table caption

Table border

Tables

- Tables are defined with the `<table>` tag
- A table is divided into rows (with table row `<tr>` tag)
- Each row is divided into data cells (with table data `<td>` tag)
- Table Header cells are defined with `<th>` tag
- A table row is nested in `<thead>` tag to define table header
- A table row is nested in `<tfoot>` tag to define table footer
- A data cell can contain text, images, list, paragraphs, forms etc

Tables

- Following attributes are not supported in HTML5 (use CSS)
 - "align"
 - "bgcolor"
 - "border"
 - "cellpadding"
 - "cellspacing"
 - "frame"
 - "rules"
 - "summary"
 - "width"

Table Example

```
<!-- table starts here -->
<table border="1
bordercolor="#0000FF">
<!-- 1st table row -->
<tr>
<!-- table heading -->
<th>Employee Name</th>
<th>Employee Id</th>
<th>Salary</th>
</tr>
```

```
<!-- 2nd table row -->
<tr>
<!-- table data -->
<td>Smith</td>
<td>E001</td>
<td>45000</td>
</tr>
<!-- table ends here -->
</table>
```

Table Caption

- `<caption>` tag is used to define caption
- CAPTION element's text should describe the nature of table
- A TABLE element may only contain one CAPTION element
- Recommended to include immediately after TABLE start tag
- By default, a table caption will be center-aligned above a table
- The CSS properties `text-align` and `caption-side` can be used to align and place the caption

Table Caption

- Values of `text-align` : left, right, center
- Values of `caption-side` : top, bottom, left, right
- Some of the browsers might not support left and right value for caption-side
- Usage :
 - `<caption style="caption-side:bottom; text-align:right;">Employee Salary</caption>`

Table Summary

- Summary attribute shall be used to provide additional information summarizing the purpose and structure of the table
- This is especially important for tables without captions
- Summary attribute is important for user agents rendering to non-visual media such as speech and Braille
- Example :
 - `<table summary="Employee salary for March month">`

Table Borders

- Border is a line around the table that visually defines table
- By default table does not have visible borders
- Example

```
<table border="1" bordercolor= "#0000FF">
```

Students details

Name	Class	Section
Kamal Hasan	10	B
Rajanikanth	10	A

Table border

Property border-collapse

- “border-collapse” border property is used to define border of the property

Value	Description
Separate	This is default value. Borders are separated and each cell displays its own borders
Collapse	Borders are collapsed into a single border when possible (border-spacing and empty-cells properties have no effect)
Initial	Sets this property to its default value
Inherit	Inherits this property from its parent element

Property border-collapse

Students details

Name	Class	Section
Rajanikanth	10	A
Kamal Hasan	10	B

Separate border

Students details

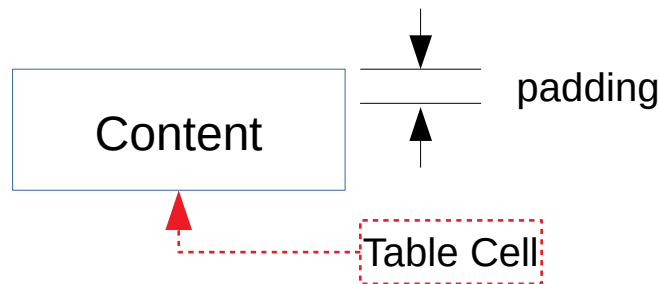
Name	Class	Section
Rajanikanth	10	A
Kamal Hasan	10	B

Collapse border

Cell padding

- Cell padding is the pixel space between the cell content and the cell border
- The default cell padding space is zero
- Example

style="padding : 10px;"



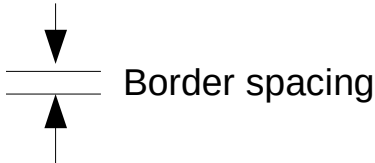
Border Spacing

- Border spacing specifies the space between cells
- **Example**

style="border-spacing : 8px;"

Students details

Name	Class	Section
Rajanikanth	10	A
Kamal Hasan	10	B



Spanning Column

- To span a cell more than one column **colspan** attribute is used
- In below example “Marks” cell is spanning over two columns

Name	Marks	
Smith	65	55

Spanning Column

```
<table border="1">
<caption>Student Details</caption>
<tr>
  <th>Name</th>
  <th colspan="2">Marks</th>
</tr>
```

```
<tr>
  <td>Smith</td>
  <td>65</td>
  <td>55</td>
</tr>
</table>
```

Span Row Example

- To span a cell over more than one rows **rowspan** attribute is used
- In below example “Marks” cell is spanning over two rows

Name	Neha Verma
Marks	67
	68

Span Row Example

```
<table border="1">  
<caption>Student Details</caption>  
<tr><th>Name</th><td>Neha Verma</td></tr>  
<tr><th rowspan="2">Marks</th><td>67</td></tr>  
<tr><td>68</td></tr>  
</table>
```

Align cell Text

- To align cell text text-align property is used
- Example

```
style {  
    text-align: right;  
}
```

Table Header & Footer

- `<thead>` : This element tag can be used to group contents as the header of table for formatting purpose
- `<tbody>` : This tag can be used to group table content to format it as the body of the table
- `<tfoot>` : set to group footer information for the formatting purpose

Header & Footer

(Example)

```
<thead><tr><th>Name</th></tr>
</thead>
<tbody><tr><td>Smith</td></tr>
</tbody>
<tfoot><tr><td>Total</td></tr>
</tfoot>
```

Table – important notes

- Do not use tables as web page layouts

Assignment - 1

- Create a table as depicted below

Employee Details

Employee Details		
Employee Name	Employee Id	Salary
Rajanikanth	E001	45000
Kamal Hasan	E002	42000
Salman Khan	E003	46000
Amir Khan	E004	50000
Ranveer Kapoor	E005	55000

Assignment - 2

- Create a table as depicted below

Student Name	Physics	Chemistry	Maths
Ramesh	98	99	97
Kunal	88	73	91
Bharti	64	72	55
Anupam	75	82	87
Venkatesh	55	62	45
Average	76.00	77.60	75.00

Assignment - 3

- Create a table as depicted below

Customer Table

Customer	Order No	Month
Britania	1023	January
	1187	April
	1254	March
Patanjali	1065	January
	1201	April
	1347	March
Unilever	1103	January
	1139	April
	1292	March

Lists

(Hypertext Markup Language 5)

List Tags

Tag	Description
	Defines an unordered list
	Defines an ordered list
	Defines a list item
<dl>	Defines a description list
<dt>	Defines a term in a description list
<dd>	Describes the term in a description list

List

- HTML Lists are used to specify lists of information
- There are three types of HTML Lists
 - Ordered List (ol)
 - Unordered List (ul)
 - Description List or Definition List (dl)

Ordered List

- Ordered List is a list of items that are marked with numbers
- It is also known as Numbered List
- Ordered list starts with `` tag
- Each list item starts with `` tag

Ordered List

Example

```
<ol>
```

```
<li>HTML</li>
```

```
<li>CSS</li>
```

```
<li> JS</li>
```

```
</ol>
```

Output

1. HTML

2. CSS

3. JS

Ordered List

(Type Attribute)

The type attribute of the `` tag defines the type of numbered list

- `type = "1"` The list items will be numbered with numbers
- `type="A"` The list items will be numbered with Uppercase letter
- `type="a"` The list items will be numbered with Lowercase letter
- `type="I"` The list items will be numbered with Roman letters

Unordered List

- An unordered list is a list of items marked with bullets
- An unordered list start with the `` tag
- Each list item starts with the `` tag

Unordered List

Example

```
<ul>
```

```
<li> HTML</li>
```

```
<li> CSS</li>
```

```
<li> JS</li>
```

```
</ul>
```

Output

- HTML
- CSS
- JS

Unordered List

CSS list-style-type is used to define the list item marker

- circle : Unfilled Circle
- disc : Filled Circle
- square : Filled Square
- none : list item will not be marked

Unordered List

(Example)

```
<ul style ="list-style-type:circle">
```

```
<li> HTML</li>
```

```
<li> CSS</li>
```

```
<li> JS </li>
```

```
</ul>
```

Definition Lists

- Definition lists consist of two parts : a **term** and a **description**
- Definition List displays elements in definition form such as dictionary, book index
- Three tags are used to define description list
 - `<dl>` tag defines the description list
 - `<dt>` tag defines the data term
 - `<dd>` tag defines data definition (description)

Definition Lists

(Example)

```
<dl>
```

```
<dt>Sugar</dt>
```

```
<dd>White sweet fine grained crystals made sugarcane.</dd>
```

```
<dt>Milk</dt>
```

```
<dd>A white liquid obtained from animals such as cow, buffalo,  
goat etc.</dd>
```

```
</dl>
```

Multi-level Lists

(example)

Scripting Language

A. Shell script

- Top level item-1
- Top level item-2
 - sub-item-1
 - sub-item-2
- Top level-item-3

B. Java Script

- Top level item-1
- Top level item-2
 - sub-item-1
 - sub-item-2
- Top level-item-3

Biscuits

- Britania
 1. Marrie
 2. Tiger
 3. Bourbon
- Parle
 1. Marrie
 2. Glucose
 3. Khatta Meetha
- Patanjali
 1. Digestive
 2. Dooth
 3. Nat Khat

Multi-level Lists

(example)

```
<ul>
```

```
<li> Top level item-1</li>
```

```
<li> Top level item-2</li>
```

```
<ul>
```

```
  <li> sub-item-1</li>
```

```
  <li> sub-item-2</li>
```

```
</ul>
```

```
<li> Top level-item-3</li>
```

```
</ul>
```

Multi-level Lists

(Example)

```
<ul>  
  <li>CSS</li>  
  <li> HTML</li>  
    <ul>  
      <li> HTML 4</li>  
      <li> HTML 5</li>  
    </ul>  
  <li> JS</li>  
</ul>
```

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*Thank
you*