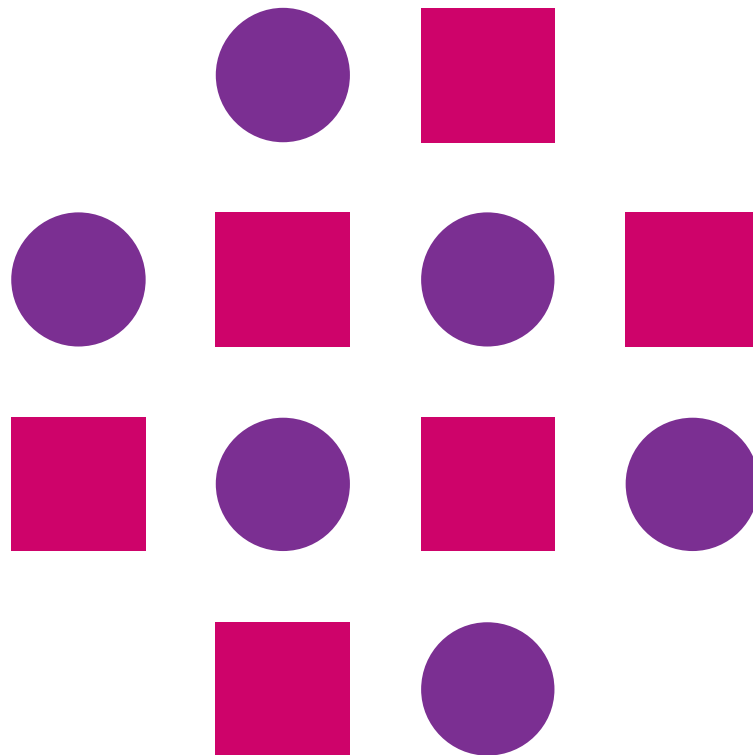


# Tables, Lists

Hypertext Markup Language 5  
(HTML5)



# Table of Content

- Tables
- Lists



# Tables

(Hypertext Markup Language 5)

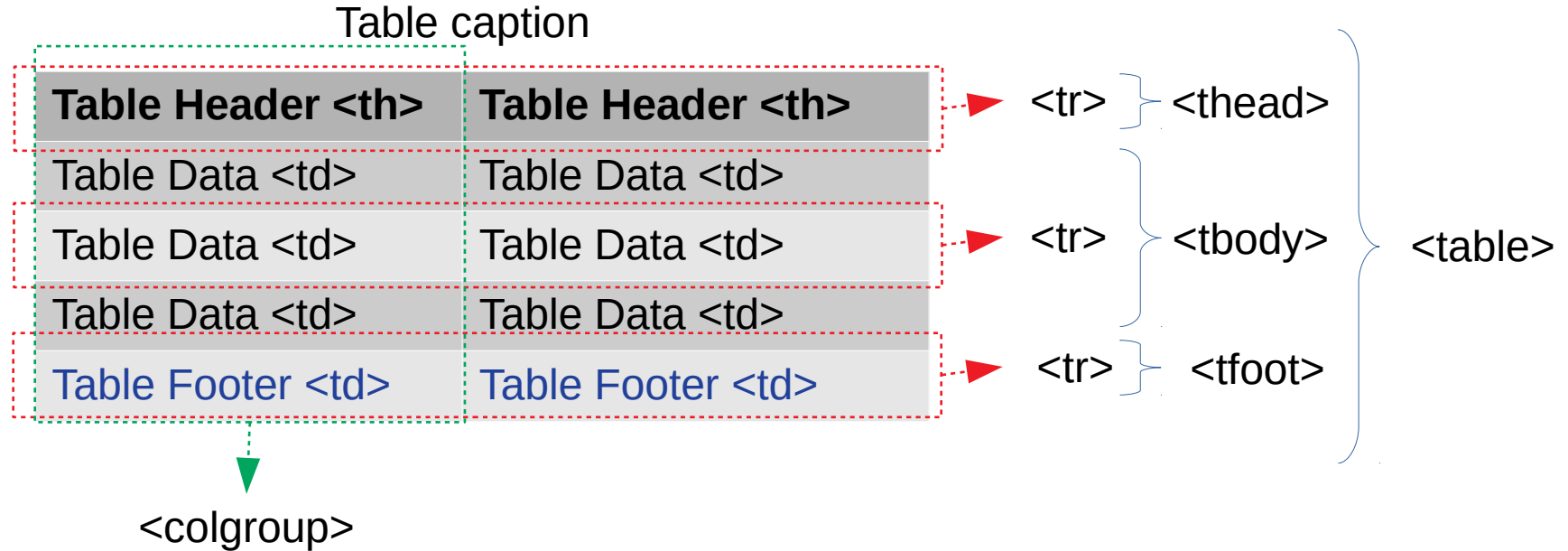
# Table Tags

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

# Table Tags

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

# Table tags



# Tables

- Tables are defined with the `<table>` tag
- A table is divided into rows (with `table row` `<tr>` tag)
- Each row is divided into `table header` `<th>` and `table data` `<td>` cells
- A table row is nested in `<thead>` tag to define table header group
- 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
  - "align"
  - "bgcolor"
  - "border"
  - "cellpadding"
  - "cellspacing"
  - "frame"
  - "rules"
  - "summary"
  - "width"
- It is recommended to use relevant CSS properties



# Table Example

```
<!-- table starts here -->
<table border="1">
<!-- 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

## Example:

```
<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">`

Table border

Cell border

Employee Name	Employee Id	Salary
Smith	E001	45000
Mac	E002	42000
John	E003	46000
Total	Total	Total

# 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

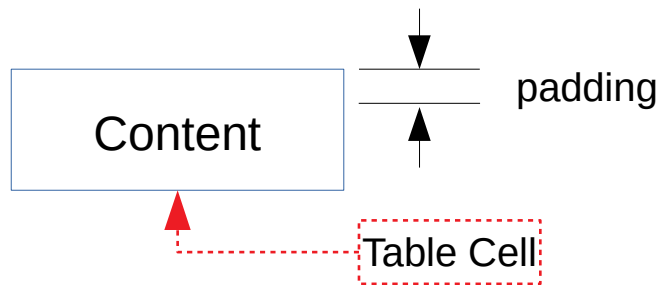
Name	Class	Section
Rajanikanth	10	A
Kamal Hasan	10	B

Collapse border

# Cell padding

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

Example: `style="padding : 10px;"`





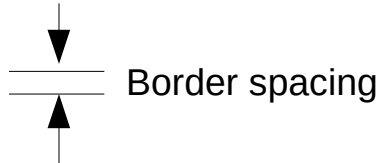
# Border Spacing

- 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

<b>Name</b>	Neha Verma
<b>Marks</b>	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

- “text-align” property is used to align cell text

**Example:** `style="text-align: right;"`

# Group Header, Body & 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

# Group Header, Body & 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

# Class Work

- Create a table as depicted below

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

# Class Work

- Create a table as depicted below

Marks Sheet			
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

# Class Work

- Create a table as depicted here

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
<ul>	Defines an unordered list
<ol>	Defines an ordered list
<li>	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 `<ol>` tag
- Each list item starts with `<li>` 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 `<ol>` 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 capital Roman letters
- `type="i"`      The list items will be numbered with small Roman letters

# Unordered List

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

# Horizontal Display of List

- By default a list item is displayed in one line
- In case all the list items to be displayed one line then their display property can be set as either inline or inline-block

```
<style>
```

```
ul li { display: inline; }
```

```
</style>
```

# 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>
```

# 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 from sugar-cane</dd>
```

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

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

```
</dl>
```

## Web Stack Academy (P) Ltd

#83, Farah Towers,  
1st floor, MG Road,  
Bangalore - 560001

M: +91-80-4128 9576

T: +91-98862 69112

E: [info@www.webstackacademy.com](mailto:info@www.webstackacademy.com)

*Thank  
you*