

## Table tag

### Table

HTML tables allow to arrange data like, image links after tables in rows and columns.

The HTML tables are created by Table tag in which `<tr>` tag is used to create table rows, `<td>` tag is used to break table data and `<th>` is used to create a table header in which the content is bold and centred align by default.

### `<table>`

`<caption>` > Table </caption>

`<tr>`

`<th>` serial.no `</th>`

`<th>` name `</th>`

`<tr>`

`<td>` | `<td>`

`<td>` data `</td>`

`</tr>`

`</table>`

Table 1

Serial.no	Name
1	Data

<table> - This tag is Parent container for creating a table.

<tr> - This tag is used to add row for the table.

<caption> This tag is used to give handling for the table

<td> This tag is used to add actual data for the table

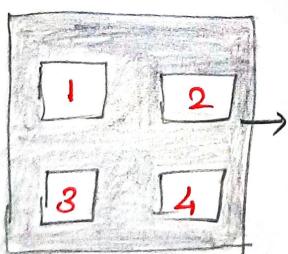
<th> This tag is used to add headings for the table columns.

<thead> This tag is just a container to hold table heads.

<tbody> This tag is just a container to hold table whole data.

<tfoot> This tag is used to give footer for the table.

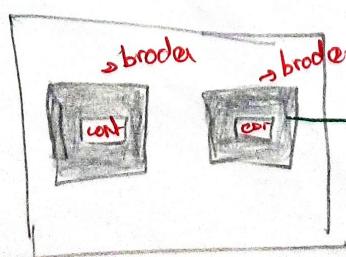
cellspacing → cellspacing defines whitespace between the adjacent cells or space between the cells.



cellspacing

cell padding

This is space between the content and border



cell padding

cell padding and cell spacing should given to table tag only.

### colspan

colspan is used to merge two or more columns into single column.

<table>

<tr>

<td> 1 </td>

<td colspan="2"> 2 </td>

<td> 3 </td>

<td> 4 </td>

</table>

1	2	3
4		

### rowspan

rowspan is used to merge two or more rows into single row.

<table>

<tr>

<td> 1 </td>

</tr>

<tr>

<td rowspan="2"> 2 </td>

</tr>

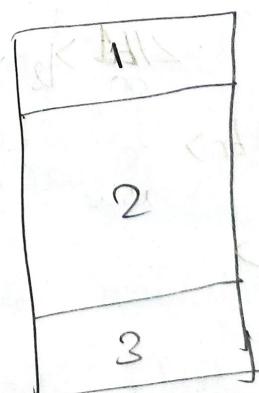
<tr>

<td> 3 </td>

</tr>

<tr>

<td> 4 </td>



</tr>

</table>

### insert (or) nested table

Insert a table inside a another table or nested table

<table border="2">

<tr>

<th> s1.no </th>

<th> name </th>

</tr>

<tr>

<td> 1 </td>

<td> x

<table border="2">

<br>

<td> 1.1 </td>

<td> 1.2 </td>

</tr>

</table>

</td>

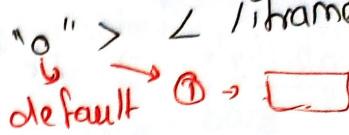
</tr>

</table>

## Iframe tag

It is an inline frame used to embed another document or web pages within current html document.

Iframe is nothing but nesting of web pages.

`<iframe src="filepath" frameborder="0">` 

With help of iframe we can embed youtube videos in HTML document.

### src attribute

src attribute used to load the content by specifying the URL.

### frameborder attribute

frameborder is used to provide borders to the iframes. default is 0. where (no border), where it can be change the value by 1. (border will be present).

## Media tags

HTML audio and video tags are used to add media contents like songs, movies, etc..

To add media content on the webpage. we don't need third party plugins like flash, insert the HTML file we have controls.

1) audio tag

2) video tag.

## 1) **audio tag**

Audio tags are used to play audio files like MP3, ogg, mpeg, aac, etc. src and controls are mandatory attributes in audio.

src attribute → It is used to add audio content.

control attribute → It is used to show the control bar like play, pause, volume, etc.

<audio src = "audio.mp3" controls> </audio>

→ above the syntax does not specify which audio format browser will support.

### overcome

To overcome this there are introduced source tag. An audio tag allows multiple source tag in which different formats of audio is written. So that browser will use first recognized format.

<audio controls>

<source src = "audio.mp3">

<source src = "audio.mpeg">

<source src = "audio.ogg">

<source src = "audio.aac">

</audio>.

## 2) audio video tag

video tag is used to play video files like, mp4, ogg, mov, etc..

src and controls are mandatory attributes in video tag.

src attribute: It is used to add video content.

control attribute: It is used to show the controls like play, pause, volume, etc..

<video src="audio.mp3" controls></video>

above the syntax does not specify which video

format browser will support.

overcome  
To overcome this there are introduce source tag

An video tag allow multiple source tag in which different formates of video is written. so that browser will use first recognized format.

<video controls>

<source src="video.mp4">

& source src="video.mov">

<source src="video.ogg">

</video>

## HTML FORM

Form is used to collect user information or user input.

Syntax :-

```
<form action = "url" method = "post/get">  
</form>
```

### Action attribute

It specifies where to send form data when a form is submitted.

### method attribute

It specifies HTTP method when sending the form data.

### Input

It is a container for different kinds of input element such as text field, check boxes, email, password and etc....

`<input type = "text">` → It displays single line text

`<input type = "radio">` → It displays radio button to selecting one option among many options.

`<input type = "checkbox">` → It displays checkbox to selecting multiple option.

`<input type = "submit">` → It displays a submit button for submission of form.

`<input type = "reset">` → It displays a reset button for clearing the form.

`<input type = "password">` → It helps to type password by holding the text with dots.

`<input type = "tel">` → It displays a telephone number format.

`<input type = "email">` It is used to type an email address.

### Note:

Input is a most used common form element.

Label → Label is useful for giving name for the input field.



### No validate attribute

It is a boolean attribute when it is used in the form tag. It will not validate when the form is submitted.

`<form novalidate>` `</form>`

### autocomplete attribute

Autocomplete attribute have a value on or off, when a autocomplete is on the browser automatically suggest the value based on the value user entered before.

`<form autocomplete = "on/off">` `</form>`

## Required attribute

It specifies the mandatory fields that means the user can never skip the fields.

```
<input type="text" required>
```

## autofocus attribute:

Input tag will get focused automatically when the page loads on the browser.

```
<input type="text" autofocus>
```

## placeholder attribute

It specifies a short hint that describes the expected value of input field.

```
<input type="text" placeholder="enter the name">
```

## readonly

It cannot be modify the text which is already written within input tag with help of value attribute.

```
<input type="text" value="sam" readonly>
```

## disabled

It will mute input element.

## Form input types

Input type is used to define the type of data needs to be entered in the input fields.

Input types are text, email, password, tel, number, date, radio, checkbox, file, submit, reset, color, search, etc ---.

## Form element

- 1) Label
- 2) Input
- 3) Select
- 4) Option
- 5) Datalist
- 6) Textarea
- 7) Fileset
- 8) Legend.

## Pattern

Pattern is regular expression for providing validation to the form inputs like text, tel, image, password.

## Different ways of giving Pattern

If the user wants to enter only alphabet which outputs uppercase and lowercase with only four character, minimum four character and maximum eight characters.

minimum four characters and maximum can be any length.

Example :-

Pattern = "[A-Za-z] {4}" → only 4 characters  
mini → 4 characters

Pattern = "[A-Za-z] {4, 8}" → maximum characters

Pattern = "[A-Za-z] {4, }" → minimum any character.

Pattern for Password

Password should consist of minimum one uppercase alphabet, lowercase alphabet, one special character and one digit and should contains only four characters, minimum four characters maximum 8 characters, minimum four characters & maximum can be any character.

Pattern = "? = .\* [A-Z] {1} ? = .\* [a-z] {1} (? = .\* [!@#\$%^&\*]) {1} (? = .\* \d) {1} {4, }"

Pattern = "? = .\* [A-Z] {1} ? = .\* [a-z] {1} (? = .\* [!@#\$%^&\*]) {1} (? = .\* \d) {1} {4, 8}"

Pattern = "(? = .\* [A-Z] {1}) (? = .\* [a-z] {1}) (? = .\* [!@#\$%^&\*]) {1} (? = .\* \d) {1} {4, 8}"

required attribute in input tag  
<form action="" method=" " **novalidate** > 2 /form>

### map tag

The HTML map tag is used to define an image map with clickable area.  
within map tag clickable areas are created by using area tags.

Each clickable area have hyperlink associated with it.

We use map attribute for the image tag must same be save as the name attribute of the map tag. for creating relationship between these two element.

The area shape available are rectangle, circle or polygon.

1) 

<map name="clickableArea">

<area shape="rect" coords="x y w h" href="url" alt=" " >

<area shape="circle" coords="cx cy r" href="url" alt=" " >

</map>

1)