HTML Tables, Forms and Audio Video HTML



HTML5 Tables

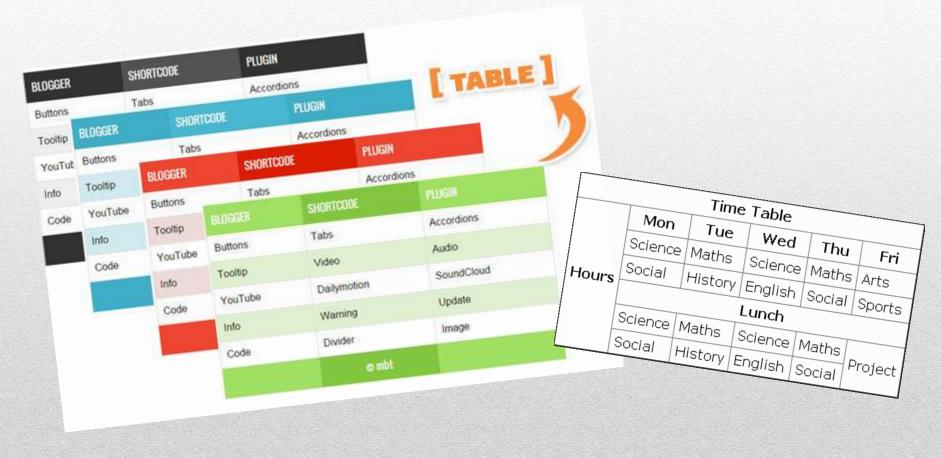


Table Structure

- A table consists of one or several rows.
- Each row has one or more columns.
- Following core HTML tags can be used to describe tabular data:
- The element defines the start and end of the table.
- The element defines the start and end of a row in the table.
- The element defines a table cell.
- We can also use element to define the heading in table cell.

```
row 1, col 1 row 1, col 2 row 2,col 1 row 2,col 2
```

Colspan Attribute

- Spanning refers to a process of extending a cell across multiple rows or columns. To span two or more columns, use the colspan attribute of the and elements.
- The value of colspan attribute specifies the number of columns to be merged.

CPISM		DISM	
Name:	Roll Number:	Name:	Roll Number:
Saad Shaikh	939814	Asad Ali	839715
Kamran Siddiqui	939854	Adil Abdullah	874156
Aneeq	939656	Usman	874156

Example of Colspan

```
<table border="1" cellpadding="20"
                   cellspacing="5">
                   Kamran Siddiqui
939854 
 CPISM 
                   Adil Abdullah
 DISM 
                   874156
Name:
                   Roll Number: 
                   Aneeq 
Name:
                   939656
Roll Number: 
                   Usman 
874156
Saad Shaikh 
939814 
                   Asad Ali
839715
```

Rowspan Attribute

- To make a cell span more than one row, use the **rowspan** attribute.
- The value of rowspan attribute specifies the number of columns to be merged.



Example Of Rowspan

• To add a caption to a table, use the **<caption>** tag.

```
<caption> Faculty Batch Timing Info </caption>

Faculty Name:
Faculty Name:

Saad Shaikh

rowspan="2">Batch Timings:
9 TO 11 (TTS)

11 TO 1 (MWF)
```

Table With Caption

• To add a caption to a table, use the **<caption>** tag.

```
<caption> Faculty Batch Timing Info </caption>
Faculty Name:
Saad Shaikh
Batch Timings:
9 TO 11 (TTS)
11 TO 1 (MWF)
```

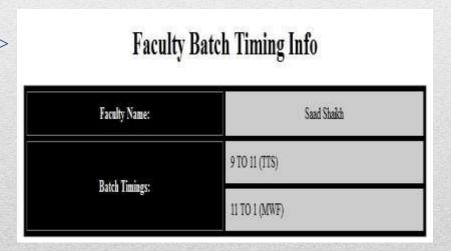


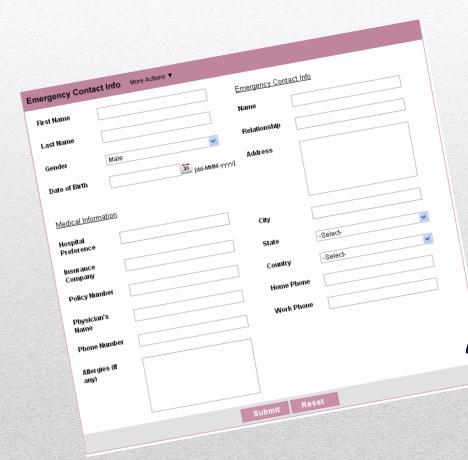
Table Padding

• To control the space between the border and the content in a table, use the padding property on and elements.

Example:

```
th, td {
   padding: 15px;
   text-align: left;
}
```

HTML5 FORMS





Forms

- Html forms are the primary method for gathering data from site visitors.
- Forms contain different controls through which user enters the details. These includes:
 - Text fields
 - Buttons
 - Check boxes
 - Color Pickers
- Html5 have introduced many new features that enables website designers to validate user entries without using Java Script language.

The <input> Element

- HTML forms contain form elements.
- Form elements are different types of input elements, checkboxes, radio buttons, submit buttons, and more.
- The **<input>** element is the most important **form element**.
- The <input> element has many variations, depending on the type attribute.

For example:

Input types

- <input type="text"> defines a one-line input field for text input.
- <input type="radio"> defines a radio button.
- <input type="submit"> defines a button for submitting a form to a form-handler.

Туре	Description
text	Defines normal text input
radio	Defines radio button input (for selecting one of many choices)
submit	Defines a submit button (for submitting the form)

Html5 new input types

Type	Description
email	The <input email''="" type=""/> is used for input fields that should contain an e-mail address.
url	The <input type="url"/> is used for input fields that should contain a URL address.
tel	he <input tel''="" type=""/> is used for input fields that should contain a telephone number.
datetime	The <input datetime''="" type=""/> allows the user to select a date and time.
time	The <input time''="" type=""/> allows the user to select a time
month	The <input month''="" type=""/> allows the user to select a month and year.

Html5 new input types

Types	Description
range	The <input range''="" type=""/> is used for input fields that should contain a value within a range.
color	The <input color''="" type=""/> is used for input fields that should contain a color.
date	The <input date''="" type=""/> is used for input fields that should contain a date.
number	The <input number''="" type=""/> is used for input fields that should contain a numeric value.

Basic attributes of form

The Action Attribute

- The **action attribute** defines the action to be performed when the form is submitted.
- The common way to submit a form to a server, is by using a submit button.
- <form action="action_page.php">

The Method Attribute

- The **method attribute** specifies the HTTP method (**GET** or **POST**) to be used when submitting the forms:
- <form action="action_page.php" method="get">
- <form action="action_page.php" method="post">

The Name Attribute

- To be submitted correctly, each input field must have a name attribute.
- <input type="text" name="lastname" value="Mouse">

Html5 New Form Attributes

 HTML5 has introduced several new attributes that can be used with form and input elements.

Attributes	Description
placeholder	The placeholder attribute specifies a hint that describes the expected value of an input field.
required	It specifies that an input field must be filled out before submitting the form.
multiple	It specifies that an input field must be filled out before submitting the form.
autofocus	It specifies that an <input/> element should automatically get focus when the page loads.
pattern	The pattern attribute specifies a regular expression that the <input/> element's value is checked against.
form	The form attribute specifies one or more forms an <input/> element belongs to

Working With Input Types

text

<input type="text"> defines a one-line input field
for text input.

Example

```
<form>
  First name:<br>
     <input type="text" name="firstname"><br>
     Last name:<br>
     <input type="text" name="lastname"></form>
```

password

<input type=''password''> defines a password field.

User password:

submit

- <input type="submit"> defines a button for submitting form input to a form-handler.
- Example

radio

- <input type="radio"> defines a radio button.
- Radio buttons let a user select ONLY ONE of a limited number of choices.
- Example

checkbox

Checkboxes let a user to select ZERO or MORE options of a limited number of choices.

Example

number

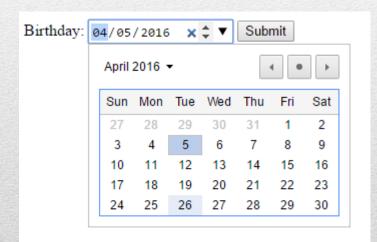
- The **<input type="number">** is used for input fields that should contain a numeric value.
- You can set restrictions on the numbers.
- Example

```
<form>
  Quantity (between 1 and 5):
  <input type="number" name="quantity" min="1" max="5">
  <input type="submit">
  </form>
  Quantity (between 1 and 5): Submit
```

date

- The **<input type="date">** is used for input fields that should contain a date.
- Example

```
<form>
Birthday:
<input type="date" name="bday">
</form>
```

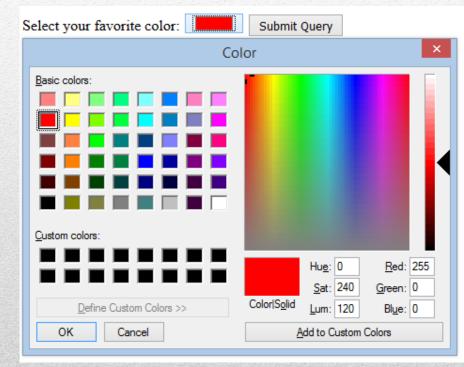


color

 The <input type="color"> is used for input fields that should contain a color.

Example:

```
<form>
Select your favorite color:
  <input type="color" name="fa
vcolor">
  </form>
```



email

- The **<input type="email">** is used for input fields that should contain an e-mail address.
- Depending on browser support, the e-mail address can be automatically validated when submitted.
- Example



- The **<input type="url">** is used for input fields that should contain a website address.
- Example

```
<form>
Add your homepage:
  <input type="url" name="homepage">
  </form>
```

Add your homepage: Submit

Html5 New Attributes

- HTML5 has provided several new attributes that perform the validations without writing JavaScript snippets for them.
- Now I will discuss some important attributes that are introduced in HTML5.

The autocomplete Attribute

- The autocomplete attribute specifies whether a form or input field should have autocomplete on or off.
- When autocomplete is on, the browser automatically complete values based on values that the user has entered before.

Example:

The autofocus Attribute

- It specifies that an <input> element should automatically get focus when the page loads.
- Example:

First name:<input type="text" name="fname" autofocus>

• The above code let the "First name" input field automatically get focus when the page loads.

The Placeholder Attribute

- The placeholder attribute specifies a hint that describes the expected value of an input field.
- Example

The required Attribute

- When present, it specifies that an input field must be filled out before submitting the form.
- The required attribute works with the following input types: text, search, url, tel, email, password, date pickers, number, checkbox, radio, and file.
- Example:

Username: <input type="text" name="usrname" required>

Username:	
Email:	Please fill out this field.

HTML <fieldset> Tag

- The <fieldset> tag is used to group related elements in a form.
- The <fieldset> tag draws a box around the related elements.
- The <legend> tag defines a caption for the <fieldset> element.

EXAMPLE

```
<form>
<fieldset>
 <legend>Information:</legend>
 Name: <input type="text"><br>
 Email: <input type="email"><br>
 Date of birth: <input type="date">
</fieldset>
             -Information:
</form>
              Name:
              Email:
              Date of birth: | mm/dd/yyyy
```

Registration Form User id: Password: Name: Address: (Please select a country) ▼ Country: ZIP CODE: Email: Sex: Male Female Language: @ English - Non English About: submit

Sample Form

Html5 Audio & Video

- HTML5 features, include native audio and video support without the need for Flash.
- The HTML5 <audio> and <video> tags make it simple to add media to a website. You need to set **src** attribute to identify the media source and include a controls attribute so the user can play and pause the media.

Note: Only MP3, WAV, and Ogg audio are supported by the newest HTML5 standard.

Html5 Audio

- The HTML5 <audio> element specifies a standard way to embed audio in a web page.
- Example:

```
<audio controls>
  <source src="audio.ogg" type="audio/ogg">
  <source src="audio.mp3" type="audio/mpeg">
  </audio>
```

• The <source> tag is used to specify multiple media resources for media elements, such as <video> and <audio>.The <source> tag allows you to specify alternative video/audio files which the browser may choose from, based on its media type or codec support.

Audio Attributes

Attribute	Description
autoplay	The audio will automatically begin to play back as soon as it can do so without stopping to finish loading the data.
autobuffer	The audio will automatically begin buffering even if it's not set to automatically play.
controls	If this attribute is present, it will allow the user to control audio playback, including volume, seeking, and pause/resume playback.
loop	This will allow audio automatically seek back to the start after reaching at the end.
preload	This attribute specifies that the audio will be loaded at page load, and ready to run. Ignored if autoplay is present.

HTML5 Video

- To show a video in HTML, use the **<video>** element Example
- <video width="320" height="240" controls>
 <source src="movie.mp4" type="video/mp4">
 <source src="movie.ogg" type="video/ogg">
 Your browser does not support the video tag.
 </video>

Video Attributes

Attributes	Description
autoplay	Specifies that the browser will start playing the video as soon as it is ready.
muted	Allows to mute the video initially.
controls	Allows displaying the controls of the video.
loop	Specifies that the browser should repeat playing the existing video once.
preload	Specifies whether the video should be loaded or not when the page is loaded.