

Basic structure of HTML page

```
<html>
<head>
<title>Title of the document</title>
</head>

<body>
The content of the document.....
</body>

</html>
```

Definition and Usage

- ❖ The `<head>` element is a container for all the head elements.
- ❖ The `<head>` element can include a title for the document, scripts, styles, meta information, and more.
- ❖ The following elements can go inside the `<head>` element:
 - 1) `<title>` (this element is required in an HTML document)
 - 2) `<style>`
 - 3) `<base>`
 - 4) `<link>`
 - 5) `<meta>`
 - 6) `<script>`
 - 7) `<noscript>`

The `<html>` tag tells the browser that this is an HTML document.

The `<html>` tag represents the root of an HTML document.

The `<html>` tag is the container for all other HTML elements (except for the `<!DOCTYPE>` tag).

The `<body>` tag defines the document's body.

The `<body>` element contains all the contents of an HTML document, such as text, hyperlinks, images, tables, lists, etc.

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< p >

< html >

< body >

< p > This is a paragraph.</p>

< p > This is a paragraph.</p>

< p > This is a paragraph.</p>

</body>

</html>

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<h1> to <h6>

*Heading are of 6 types.

<html>

<body>

<h1>This is heading 1</h1>

<h2>This is heading 2</h2>

<h3>This is heading 3</h3>

<h4>This is heading 4</h4>

<h5>This is heading 5</h5>

<h6>This is heading 6</h6>

<p>Tip: Use h1 to h6 elements only for headings. Do not use them just to make text bold or big. Use other tags for that.</p>

</body>

</html>

<hr>

*Use this tag to display horizontal rule in the html document.

<html>

<body>

<h1>HTML</h1>

<p>HTML is a language for describing web pages.</p>

<hr>

<h1>CSS</h1>

<p>CSS defines how to display HTML elements.</p>

</body>

</html>

Formatting Tags

```
<html>
```

```
<body>
```

```
<p>He named his car <i>The lightning</i>, because it was very  
fast.</p>  
<p>He named his car <b>The lightning</b>, because it was very  
fast.</p>  
<p>He named his car <u>The lightning</u>, because it was very  
fast.</p>
```

```
</body>
```

```
</html>
```

<iframe>

<html>

<body>

```
<iframe src="https://www.w3schools.com">
<p>Your browser does not support iframes.</p>
</iframe>
```

</body>

</html>

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Text styles and formatting

<html>

<body>

Emphasized (like italic) text

Strong text

<code>A piece of computer code</code>

<samp>Sample output from a computer program</samp>

<kbd>Keyboard input</kbd>

<var>Variable</var>

</body>

</html>

Output:

Emphasized text

Strong text

A piece of computer code

Sample output from a computer program

Keyboard input

Variable

*Samp, code, kbd are similer.

<label>

These controls are used for form design mostly using PHP web development.

<html>**<body>**

<p>Click on one of the text labels to toggle the related control:</p>

<form >

<label for="male">Male</label>

**<input type="radio" name="gender" id="male" value="male">
**

<label for="female">Female</label>

**<input type="radio" name="gender" id="female" value="female">
**

<label for="other">Other</label>

**<input type="radio" name="gender" id="other" value="other">

**

<input type="submit" value="Submit">

</form>

</body>

</html>

Click on one of the text labels to toggle the related control:

Male

Female

Other

Submit

*Here you can select only one option at a time, to select multiple options you need to change the name property value with different name for each option.

* येथे तुम्ही एकावेळी एकच पर्याय निवडू शकता, एकाधिक पर्याय निवडण्यासाठी तुम्हाला प्रत्येक पर्यायासाठी "name" Property Value बदलण्याची गरज आहे.

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```
<html>
<body>
<form>
```

```
<fieldset>
```

```
<legend>Personal Information:</legend>
```

```
Name: <input type="text"><br>
```

```
Email: <input type="text"><br>
```

```
Birth Date: <input type="text">
```

```
</fieldset>
```

```
</form>
```

```
</body>
```

```
</html>
```

Personal Information:

Name:	<input type="text"/>
Email:	<input type="text"/>
Birth Date:	<input type="text"/>

<html>

<body>

<p>An ordered list:</p>

Coffee

Tea

Milk

<ol type="I">

Coffee

Tea

Milk

<p>An unordered list:</p>

Coffee

Tea

Milk

<ul type=square>

Coffee

Tea

Milk

<ul type=circle>

Coffee

Tea

Milk

</body>

</html>

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An ordered list:

1. Coffee
2. Tea
3. Milk

- I. Coffee
- II. Tea
- III. Milk

An unordered list:

- Coffee
- Tea
- Milk

- Coffee
- Tea
- Milk

- Coffee
- Tea
- Milk

*ol: numbers are shown like 1,2,3,....

*ul: only disc, square, circle are shown & no numbers are shown.

<map>

<html>

<body>

<p>Click on the sun or on one of the planets to watch it closer:</p>

<map name="planetmap">

<area shape="rect" coords="0,0,82,126" alt="Sun"
href="sun.htm">

<area shape="circle" coords="90,58,3" alt="Mercury"
href="mercur.htm">

<area shape="circle" coords="124,58,8" alt="Venus"
href="venus.htm">

</map>

</body>

</html>



0,0,82,126 = co-ordinates of rectangle = 0,0 starting co-ordinate and
82,126 another point co-ordinates.

<mark>

<html>

<body>

<p>Do not forget to buy <mark>milk</mark> today.</p>

<p>Note: The mark tag is not supported in Internet Explorer 8 and earlier versions.</p>

</body>

</html>

*This tag can be shown in google chrome easily.

<meter>

<html>

<body>

<p>Display a gauge:</p>

<meter value="2" min="0" max="10">2 out of 10</meter>

<meter value="0.6">60%</meter>

<p>Note: The <meter> tag is not supported in Internet Explorer, Edge 12, Safari 5 and earlier versions.</p>

</body>

</html>

Display a gauge:



Note: The <meter> tag is not supported in Internet Explorer, Edge 12, Safari 5 and earlier versions.

*Only stable and not animated.

<nav>

*Used to show navigation menu.

<html>

<body>

<nav>

```
<a href="/html/">HTML</a> |  
<a href="/css/">CSS</a> |  
<a href="/js/">JavaScript</a> |  
<a href="/jquery/">jQuery</a>  
</nav>
```

<p>Note: The nav tag is not supported in Internet Explorer 8 and earlier versions.</p>

</body>

</html>

[HTML](#) | [CSS](#) | [JavaScript](#) | [jQuery](#)

Note: The nav tag is not supported in Internet Explorer 8 and earlier versions.

<output>

```
<html>
<body>
<form oninput="x.value=parseInt(a.value)+parseInt(b.value)">
<input type="range" id="a" value="50">100
+<input type="number" id="b" value="50">
=<output name="x" for="a b"></output>
</form>
```

*user ans input id=a id=b
process id=x
a+b = x*

<p>Note: The output element is not supported in Edge 12 or Internet Explorer and earlier versions.</p>

```
</body>
</html>
```

<video>

*Video should be placed in same folder of html file.

<html>

<body>

*Size of a video

<video width="320" height="240" controls>

*Source and type of a video

<source src="movie.mp4" type="video/mp4">

Your browser does not support the video tag.
</video>

<p>Note: The video tag is not supported in
Internet Explorer 8 and earlier versions. </p>

</body>

</html>

*Video will be played

<wbr>

<html>

<body>

<p>Try to shrink the browser window, to view how the very long word in

the paragraph below will break:</p>

<p>This is a
veryveryveryveryveryveryveryveryveryveryveryveryveryveryve
ryveryvery<wbr>longwordthatwillbreakatspecific<wbr>placeswhen
thebrowserwindowisresized.</p>

<p>Note: The wbr element is not supported in Internet
Explorer 11 and
earlier versions.</p>

</body>

</html>

*wbr will break the sentence when browser window is smaller than expected.

<table>

<html>

<body>

<h2>Basic HTML Table</h2>

<table style="width:100%" BORDER=1PX>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Age</th>

</tr>

<tr>

<td>Jill</td>

<td>Smith</td>

<td>50</td>

</tr>

<tr>

<td>Eve</td>

<td>Jackson</td>

<td>94</td>

</tr>

<tr>

<td>John</td>

<td>Doe</td>

<td>80</td>

</tr>

</table>

</body>

</html>

Basic HTML Table

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

COLSPAN – TO MERGE 2 OR MORE COLUMNS

```
<html>
<body>

<h2>COLSPAN Table</h2>

<table style="width:100%" BORDER=1PX>

<tr>
  <th COLSPAN=2>Name</th>
  <!--<th>Lastname</th>.....      this line need to be deleted-->
  <th>Age</th>
</tr>

<tr>
  <td>Jill</td>
  <td>Smith</td>
  <td>50</td>
</tr>

<tr>
  <td>Eve</td>
  <td>Jackson</td>
  <td>94</td>
```

</tr>

```
<tr>
  <td>John</td>
  <td>Doe</td>
  <td>80</td>
</tr>
```

</table>

```
</body>
</html>
```

COLSPAN Table

Name	Age
Jill	Smith
Eve	Jackson
John	Doe

ROWSPAN -- TO MERGE 2 OR MORE ROWS

```
<html>
<body>
  <h2>COLSPAN Table</h2>
  <table style="width:100%" BORDER=1PX>
    <tr>
      <th COLSPAN=2>Name</th>
      <th>Lastname</th><!--.....this line need to be deleted-->
```

```
<th>Age</th>
</tr>

<tr>
<td>Jill</td>
<td>Smith</td>
<td>50</td>
</tr>

<tr>
<td>Eve</td>
<td>Jackson</td>
<td ROWSPAN=2>94</td>
</tr>

<tr>
<td>John</td>
<td>Doe</td>
<td>80</td> <!--THIS LINE NEED TO BE DELETED-->
</tr>

</table>

</body>
</html>
```

COLSPAN Table

Name		Age
Jill	Smith	50
Eve	Jackson	
John	Doe	94

<progress>

<html>

<body>

Downloading progress:

<progress value="22" max="100">

</progress>

<p>Note: The progress tag is not supported in Internet Explorer 9 and earlier versions.</p>

</body>

</html>

<form>

<html>

<body>

<form>

Fill the following details:

Full Name:

<input type="text" name="username">

Email id:

<input type="text" name="email_id">

<input type="submit" value="Submit">

SELECT GENDER

<input type="radio" name="gender" id="male">

<label for="male">Male</label>

<input type="radio" name="gender" id="female">

<label for="female">Female</label>

SELECT SUBJECTS

<input type="checkbox" name="subject" id="maths">

```
<label for="maths">Maths</label>
<input type="checkbox" name="subject" id="science">
<label for="sceince">Science</label>
<input type="checkbox" name="subject" id="english">
<label for="english">English</label>
<br><br>

<label for="fileselect">Upload:</label>
<input type="file" name="upload" id="fileselect"><br>
<br>

<label for="Description">Description:</label>
<br>

<textarea rows="5" cols="50" name="Description"
           id="Description"></textarea>
<br>
<br>

<label for="country">Country:</label>
<select name="country" id="country">
    <option value="India">India</option>
    <option value="Sri Lanka">Sri Lanka</option>
    <option value="Australia">Australia</option>
</select>

<br><br>
<input type="submit" value="Submit">
<br>
</form>

</body>
```

</html>

Fill the following details:

Full Name:

Email id:

Submit

SELECT GENDER

- Male
- Female

SELECT SUBJECTS

- Maths
- Science
- English

Upload:

Description:

Country: ▼

Submit

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<select>

<html>

<body>

<select>

<option value="Maruti">Maruti</option>

<option value="saab">Saab</option>

<option value="Tata">Tata</option>

<option value="audi">Audi</option>

</select>

</body>

</html>



<figure>

<html>

<body>

<p>The Pulpit Rock is a massive cliff 604 metres (1982 feet) in Norway.</p>

<figure>

<figcaption>Geeks logo</figcaption>

</figure>

<p>Note: The figure tag is not supported in Internet Explorer 8 and earlier versions.</p>

</body>

</html>

The Pulpit Rock is a massive cliff 604 metres (1982 feet) in Norway.



Geeks logo

Note: The figure tag is not supported in Internet Explorer 8 and earlier versions.

<audio>

<html>

<body>

<audio controls>

<source src="filename.mp3" type="audio/mpeg">

Your browser does not support the audio element.

</audio>

<p>Note: The audio tag is not supported in
Internet Explorer 8 and earlier versions.</p>

</body>

</html>

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<html>

<body>

<p>

To break lines
in a text,
use the br element.
</p>

</body>

</html>

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<canvas>

<html>

<body>

<canvas id="myCanvas">Your browser does not support the HTI
canvas tag.</canvas>

*FOLLOWING LINE IS THE JAVASCRIPT CODE

<script>

var c = document.getElementById("myCanvas");

*rendering or display type of canvas

var ctx = c.getContext("2d");

ctx.fillStyle = "green";

*ctx.fillRect(x, y, x, y); starting co-ordinates and ending co-ordinates of rectangle

ctx.fillRect(0, 0, 80, 100);

</script>

<p>Note: The canvas tag is not supported in
Internet

Explorer 8 and earlier versions.</p>

</body>

</html>

<caption>

*Caption means a name

```
<html>
<head>
<style>
table, th, td {
    border: 1px solid black;
}
</style>
</head>
<body>

<table>
<caption>Monthly savings</caption>
<tr>
<th>Month</th>
<th>Savings</th>
</tr>
<tr>
<td>January</td>
<td>$100</td>
</tr>
<tr>
<td>February</td>
<td>$50</td>
</tr>
</table>

</body>
</html>
```

<button>

<html>

<body>

<h2>The Button Element</h2>

<button type="button" onclick="alert('Hello world!')">Click
Me!</button>

</body>

</html>

There are three types of buttons:

- **submit** — Submits the current form data. (This is default.)
- **reset** — Resets data in the current form.
- **button** — Just a button. Its effects must be controlled by something else (that is, with JavaScript).

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<datalist>

<html>

<body>

```
<form action="/action_page.php" method="get">
<input list="browsers" name="browser">
<datalist id="browsers">
<option value="Internet Explorer">
<option value="Firefox">
<option value="Chrome">
<option value="Opera">
<option value="Safari">
</datalist>
<input type="submit">
</form>
```

<p>Note: The datalist tag is not supported in Internet Explorer 9 and earlier versions, or in Safari.</p>

</body>

</html>

<div>

*This is used for css layout design

```
<html>
```

```
<body>
```

```
<p>This is some text.</p>
```

```
<div style="background-color:lightblue">
<h3>This is a heading in a div element</h3>
<p>This is some text in a div element.</p>
</div>
```

```
<p>This is some text.</p>
```

```
</body>
```

```
</html>
```

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<bdo>

<html>

<head>

 <title>Text Direction Example</title>

</head>

<body>

 <p>This text will go left to right.</p>

 <p><bdo dir = "rtl">This text will go right to left.</bdo></p>

</body>

</html>

This text will go left to right.

.tfel ot thgir og lliw txet sihT

```
<html>
```

```
<head>
```

*Following meta line is only for information of document

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<style>
```

```
body {font-family: Arial, Helvetica, sans-serif;}
```

```
input[type=text], select, textarea {
```

```
    width: 100%;
```

```
    padding: 12px;
```

```
    border: 1px solid #ccc;
```

```
    border-radius: 4px;
```

```
    box-sizing: border-box;
```

```
    margin-top: 6px;
```

```
    margin-bottom: 16px;
```

```
    resize: vertical;
```

```
}
```

```
input[type=submit] {
```

```
    background-color: #4CAF50;
```

```
    color: white;
```

```
    padding: 12px 20px;
```

```
    border: none;
```

```
    border-radius: 4px;
```

```
    cursor: pointer;
```

```
}
```

```
input[type=submit]:hover {
```

```
    background-color: #45a049;
```

```
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.container {
    border-radius: 5px;
    background-color: #f2f2f2;
    padding: 20px;
}
</style>
</head>
<body>

<h3>Contact Form</h3>

<div class="container">
<form action="/action_page.php">
    <label for="fname">First Name</label>
    <input type="text" id="fname" name="firstname"
placeholder="Your name..">

    <label for="lname">Last Name</label>
    <input type="text" id="lname" name="lastname"
placeholder="Your last name..">

    <label for="country">Country</label>
    <select id="country" name="country">
        <option value="australia">Australia</option>
        <option value="canada">Canada</option>
        <option value="usa">USA</option>
    </select>

    <label for="subject">Subject</label>
    <textarea id="subject" name="subject" placeholder="Write
something.." style="height:200px"></textarea>
```

```
<input type="submit" value="Submit">  
</form>  
</div>  
  
</body>  
</html>
```

Contact Form

First Name

Your name

Last Name

Your last name

Country

Australia

Subject

Write something..

Submit

JECT:

EATE WEBSITE WITH MINIMUM OF 3 WEB PAGES LINKED AND
AVING HOME PAGE AS MAIN PAGE, FOR A COLLEGE.

DiSHA Engineering College

Image of college in full scale

Commerce	Science	Arts
Information	Information	Information

Contacts Details