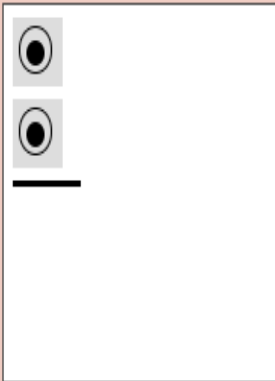


Course Content

- HTML – creates static web pages
- CSS – Increases look and feel of web pages
- JS – makes web pages dynamic
- Cross Platform

<https://html-css-js.com/>

HTML



HTML + CSS



HTML + CSS + JS



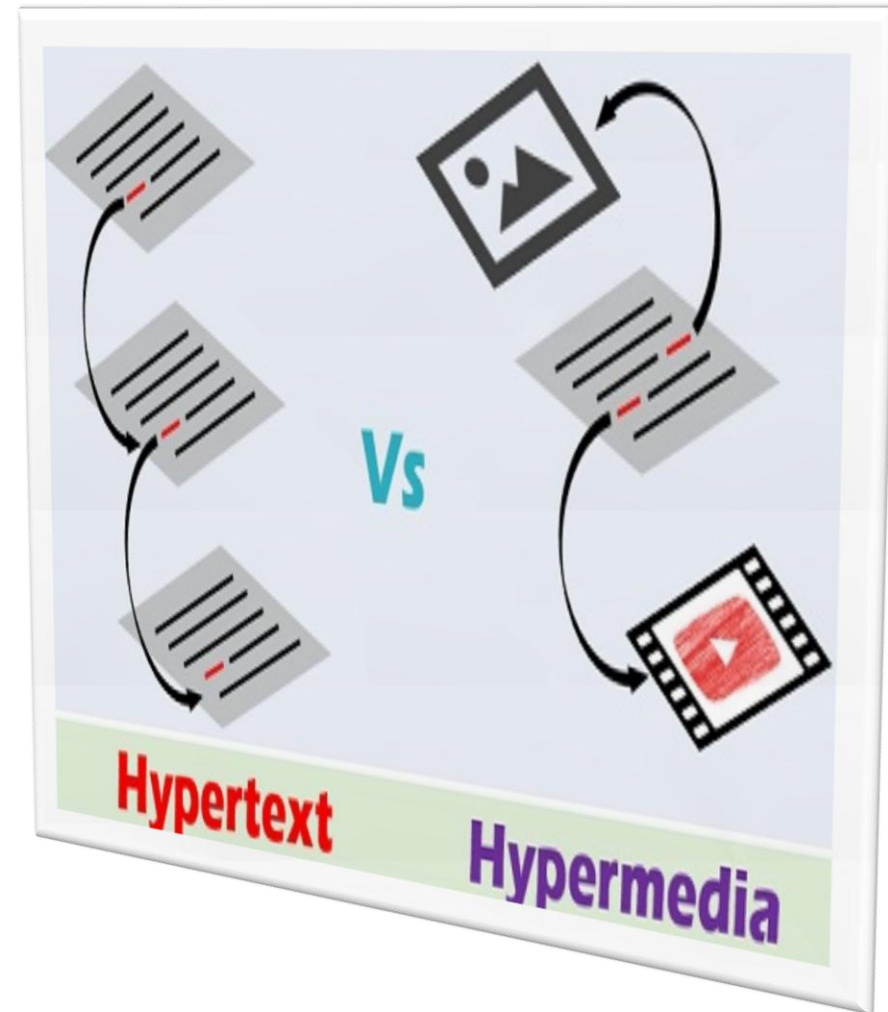
HTML

HTML

**HYPER TEXT MARKUP
LANGUAGE**

Hypertext

- **Hypertext** is text which contains links to other texts. The term was coined by Ted Nelson around 1965.
- HyperMedia is a term used for **hypertext** which is not constrained to be text: it can include graphics, video and sound.



Markup Language

- **A markup language** - computer language that uses tags to define elements within a document.
- It is human- readable, meaning **markup** files contain standard words, rather than typical programming syntax.
- While several **markup languages** exist, the two most popular are **HTML** and XML

HTML5

- HTML5 is a markup language used for structuring and presenting content on the World Wide Web.
- The current specification is known as the HTML Living Standard.
- It is maintained by a consortium of the major browser vendors (Apple, Google, Mozilla, and Microsoft), the Web Hypertext Application Technology Working Group (WHATWG).

Tools to create HTML documents

- **Any Text Editors**
 - Notepad or TextEdit
- **We will use Notepad++ in this session.**

What is HTML?

- **HTML stands for Hyper Text Markup Language.**
- **HTML is the standard markup language for creating Web pages.**
- **HTML consists of a series of elements.**
- **HTML elements tell the browser how to display the content.**

HTML Documents

- All HTML documents must start with a document type declaration:
- `<!DOCTYPE html>`.
- The HTML document
- begins with `<html>` and ends with `</html>`.
- `<head><title></title></head>`
- The visible part of the HTML document is between
- `<body>` and `</body>`.

Structure of HTML Document

```
<!DOCTYPE html>  
<html>  
  
  <head>  
    <title> Title here </title>  
  </head>  
  
  <body>  
    Web page content goes here.  
  </body>  
  
</html>
```

How to create a HTML Document?

1. **Open a Text Editor.**
2. **Write your HTML Code**
3. **Save with some file name and .html or .htm file extension**
4. **Run the .html or .htm file using a web browser.**

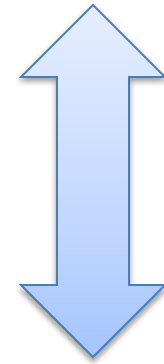
- `<!doctype html>`
- `<html>`
- `<head>`
- `<title>Our Web page`
- `</title>`
- `</head>`
- `<body>`
- Hello world
- `</body>`
- `</html>`

In a HTML Documents you see tags, elements and attributes

<tagname attribute=value>

Content

</tag>



E
L
E
M
E
N
T

In a HTML Documents you see tags, elements and attributes

```
<!DOCTYPE HTML>
```

```
<html>
```

```
  <body bgcolor="red">
```

```
    "Hello World"
```

```
  </body>
```

```
</html>
```

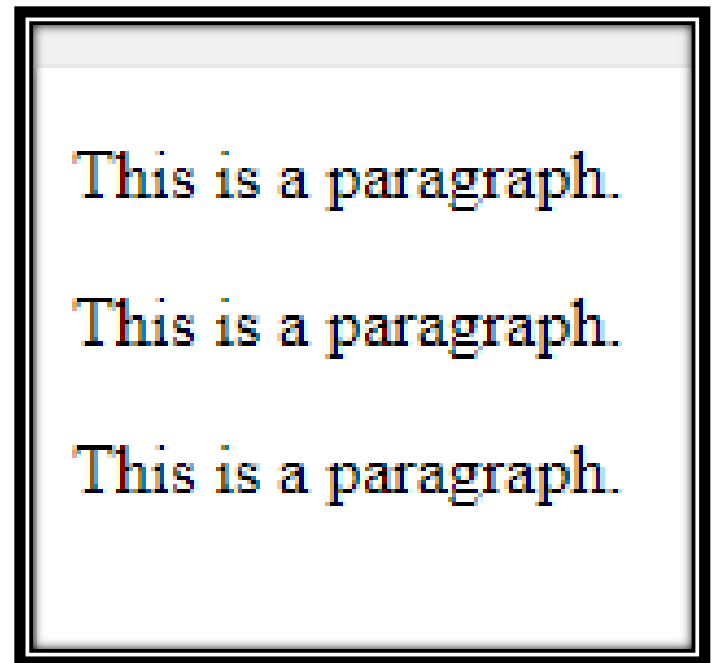
Paragraph Tag <p>

- A paragraph always starts on a new line, and is usually a block of text.

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

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

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



Heading Tags <h1> to <h6>

<h1>Heading 1</h1>

<h2>Heading 2</h2>

<h3>Heading 3</h3>

<h4>Heading 4</h4>

<h5>Heading 5</h5>

<h6>Heading 6</h6>

Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6

<hr>

<h1>This is heading 1</h1>

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

<hr>

<h2>This is heading 2</h2>

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

<hr>

<h2>This is heading 2</h2>

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

This is heading 1

This is some text.

This is heading 2

This is some other text.

This is heading 2

This is some other text.

Text Formatting

**** - Bold text

**** - Important text

<i> - Italic text

**** - Emphasized text

<mark> - Marked text

<small> - Smaller text

**** - Deleted text

<ins> - Inserted text

<sub> - Subscript text

<sup> - Superscript text

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p><b>This text is bold!</b></p>
```

```
<p><strong>This text is important!</strong></p>
```

```
<p><i>This text is italic</i></p>
```

```
<p><em>This text is emphasized</em></p>
```

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

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

```
<p>My favorite color is <del>blue</del> red.</p>
```

```
<p>My favorite color is <del>blue</del> <ins>red</ins>.</p>
```

```
<p>This is <sub>subscripted</sub> text.</p>
```

```
<p>This is <sup>superscripted</sup> text.</p>
```

```
</body>
```

```
</html>
```

This text is bold!

This text is important!

This text is italic

This text is emphasized

This is some smaller text.

Do not forget to buy **milk** today.

My favorite color is ~~blue~~ red.

My favorite color is ~~blue~~ red.

This is _{subscripted} text.

This is ^{superscripted} text.

Comments

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<!-- This is a comment -->
```

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

```
<!-- Comments are not displayed in the browser -->
```

```
</body>
```

```
</html>
```

HTML Styles

- `<tagname style="property:value;">`

HTML Style attribute

Use the style attribute for styling HTML elements

- Use **background-color** for background color
- Use **color** for text colors
- Use **font-family** for text fonts
- Use **font-size** for text sizes
- Use **text-align** for text alignment


```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>I am normal</p>
```

```
<p style="color:red;">I am red</p>
```

```
<p style="color:blue;">I am blue</p>
```

```
<p style="font-size:50px;">I am big</p>
```

```
</body>
```

```
</html>
```

I am normal

I am red

I am blue

I am big

```
<!DOCTYPE html>
```

```
<html>
```

```
<body style="background-color:powderblue;">
```

```
<h1>This is a heading</h1>
```

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

```
</body>
```

```
</html>
```

This is a heading

This is a paragraph.

Activate Windows
Go to Settings to activate Windows.

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1 style="background-color:powderblue;">This  
  is a heading</h1>
```

```
<p style="background-color:tomato;">This is a  
  paragraph.</p>
```

```
</body>
```

```
</html>
```

This is a heading

This is a paragraph.

Activate Windows

Go to Settings to activate Windows.

Inserting Images

- `` tag is used.
- Src attribute contains relative or absolute address of the image.
- ``
- ``

- Relative path includes
 - ❖ /image1.jpg
 - ❖ ../image1.jpg
- Absolute path
 - ❖ http:// full path pf the image

- <!DOCTYPE html>
- <html>
- <body>
-
- </body>
- </html>



HTML Links

- Links are found in nearly all web pages.
- Links allow users to navigate from one webpage to another webpage.
- You can click on a link and jump to another document.

<a>

- **link text**
- The most important attribute of the <a> element is the **href attribute**, which indicates the link's destination.
- **The target attribute specifies where to open the linked document.**

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <h1><a href="http://www.cricinfo.com"> click here for Cricinfo website</a></h1>
6
7 </body>
8 </html>
```

click here for Cricinfo website

Navigation using hyperlinks Example

Keeping image instead of hypertext

```
<!DOCTYPE html>
<html>
<body>
<h1>This is Home Page</h1><br>
<a href="LinkSignup.html"></a></br>
<a href="LinkLogin.html"></a>
</body>
</html>
```

Showing text when cursor moves over the link

- `Visit our college website`

← → ↻ 🏠 ⓘ File | D:/MRCET/HTML/Examples/Linktip.html

Visit our college website

Go to MRCET Website

HTML Lists

- **HTML lists allow web developers to group a set of related items in lists.**

An unordered HTML list:

- Item
- Item
- Item
- Item

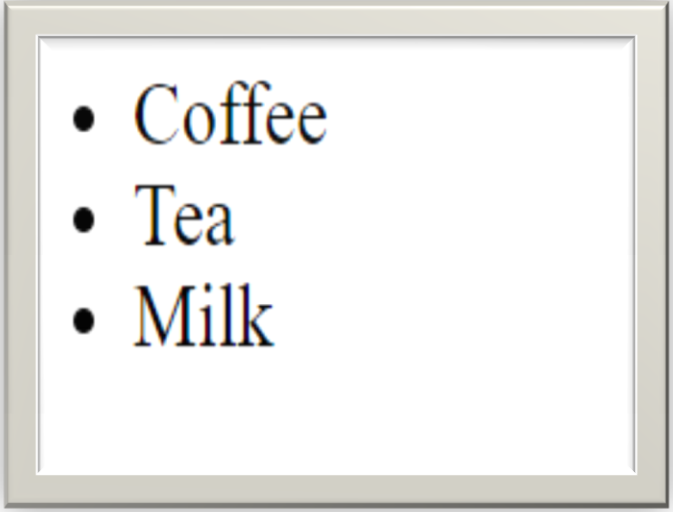
An ordered HTML list:

1. First item
2. Second item
3. Third item
4. Fourth item

Coffee

Tea

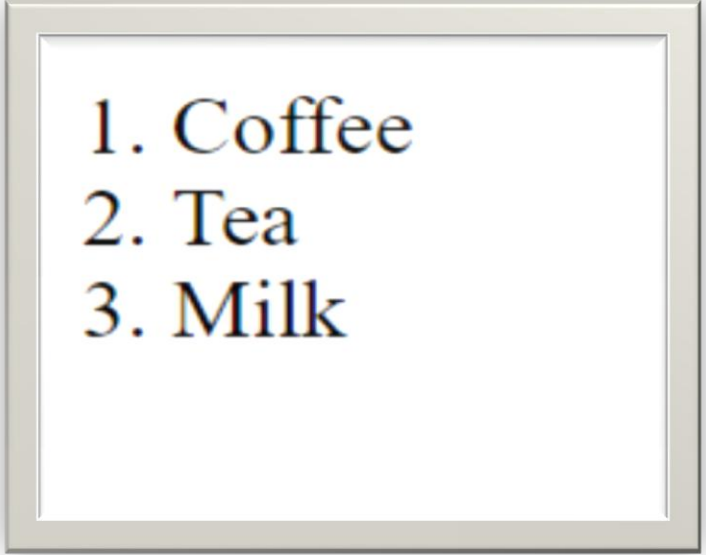
Milk

- 
- Coffee
 - Tea
 - Milk

Coffee

Tea

Milk

- 
1. Coffee
 2. Tea
 3. Milk

HTML Description Lists

- A description list is a list of terms, with a description of each term.
- The **<dl>** tag defines the description list, the **<dt>** tag defines the term (name), and the **<dd>** tag describes each term:

```
<!DOCTYPE html>
<html>
<body>

<h2>A Description List</h2>

<dl>
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>

</body>
</html>
```

A Description List

Coffee

- black hot drink

Milk

- white cold drink

Tables

- HTML tables allow web developers to arrange data into rows and columns.
- The **<table>** tag defines an HTML table.
- Each table row is defined with a **<tr>** tag.
- Each table header is defined with a **<th>** tag.
- Each table data/cell is defined with a **<td>** tag.

- By default, the text in `<th>` elements are bold and centered.
- By default, the text in `<td>` elements are regular and left-aligned.
- **Note:** The `<td>` elements are the data containers of the table. They can contain all sorts of HTML elements; text, images, lists, other tables, etc.

```
<!DOC HTML>
```

```
<html>
```

```
<head>
```

```
<title>
```

```
  "Tables Demo"
```

```
</title>
```

```
</head>
```

```
<body>
```

```
<table>
```

```
  <caption><h1>Students Details</caption>
```

```
  <tr><th>Rollno</th><th>Name</th><th colspan=2>Ph no.</th></tr>
```

```
  <tr><td>501</td><td>Ram</td><td>9999999999</td><td>8888888888</td></tr>
```

```
  <tr><td>502</td><td>Shaam</td><td>7777777777</td><td>6666666666</td></tr>
```

```
</table>
```

```
</html>
```

Students Details

Rollno	Name	Ph no.
501	Ram	99999999999 88888888888
502	Shaam	77777777777 66666666666

HTML Block and Inline Elements

- Every HTML element has a default display value, depending on what type of element it is.
- There are two display values: block and inline.

Block-level Elements

- A block-level element always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).

Inline Elements

- An inline element does not start on a new line and it only takes up as much width as necessary.

Hello world Iam Back

Hello World

Iam Back Hello world I am Back Hello Word Iam Back

```
<!DOC HTML>
<html>
<head>
<title>
Block & Inline
</title>
</head>
<body>
Hello
world Iam Back
<div>Hello World</div>Iam Back
Hello world
<span>I am Back</span>
Hello Word Iam Back
</body>
</html>
```

HTML Iframes

- An HTML iframe is used to display a web page within a web page.
- `<iframe src="URL"></iframe>`
- `<iframe src="demo_iframe.htm" height="200" width="300"></iframe>`

```
1 <!DOC HTML>
2 <html>
3   <body>
4     <iframe src="http://www.mrcet.com" height=300 width=1200></iframe>
5     <iframe src="tabl.html" height=300 width=600></iframe>
6   </body>
7 </html>
```



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Students Details

Rollno Name Ph no.

501 Ram 9999999999 8888888888

502 Shaam 7777777777 6666666666

```
<!DOC HTML>
```

```
<html>
```

```
  <body>
```

```
    <iframe src="http://www.mrcet.com" height=300 width=600></iframe>
```

```
    <iframe src="tabl.html" height=300 width=600></iframe>
```

```
    <iframe src="http://www.cricinfo.com" height=300 width=600></iframe>
```

```
    <iframe src="Frames.html" height=300 width=600></iframe>
```

```
  </body>
```

```
</html>
```

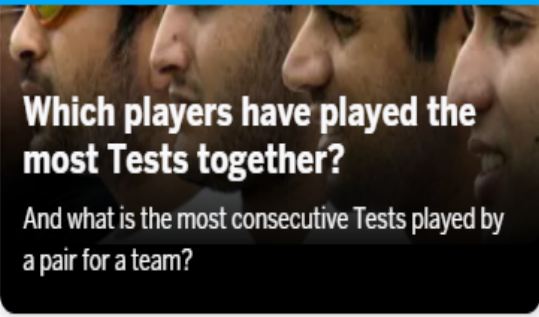


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Which players have played the most Tests together?

And what is the most consecutive Tests played by a pair for a team?

Students Details

Rollno	Name	Ph no.
501	Ram	9999999999 8888888888
502	Shaam	7777777777 6666666666

[🐦](#) [f](#) [📺](#) [📞 7207034237](#) [✉️ mrcet2004@gmail.com](#)



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Activate Windows
Go to Settings to activate Windows.

Iframe - Target for a Link

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <iframe height="300px" width="100%" name="iframe_a"></iframe>
6
7 <p><a href="http://www.cricinfo.com" target="iframe_a"> click here for Cricinfo website</a></p>
8
9
10 </body>
11 </html>
```

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₹5.89 lakh*

T&C Apply*



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HTML Forms

- An **HTML form** is used **to collect user input**.
- The user input can then be sent to a server for processing.
- The HTML **<form>** element defines a form that is used to collect user input.

<form tag>

A <form> has three attributes.

1. **action** - defines the action to be performed when the form is submitted.
2. **target** - specifies if the submitted result will open in a new browser tab, a frame, or in the current window.
3. **method** - specifies the HTTP method (**GET** or **POST**) to be used when submitting the form data.

```
<form action="/action_page.php"  
target="_blank"  
method="get">
```

HTML Form Elements

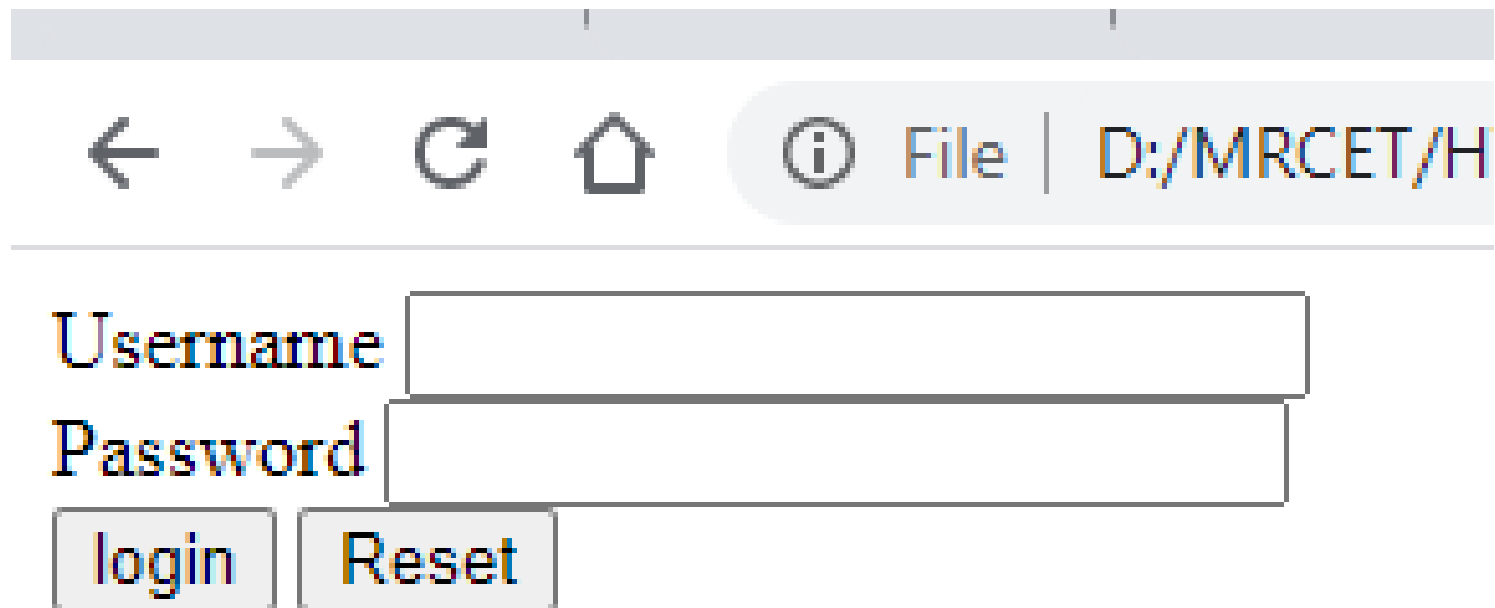
- The `<input>` Element can be displayed in several ways, depending on the `type` attribute.

<input type="button">
<input type="checkbox">
<input type="color">
<input type="date">
<input type="datetime-
local">
<input type="email">
<input type="file">
<input type="hidden">
<input type="image">
<input type="month">
<input type="number">

<input type="password">
<input type="radio">
<input type="range">
<input type="reset">
<input type="search">
<input type="submit">
<input type="tel">
<input type="text">
<input type="time">
<input type="url">
<input type="week">

```
<!doctype html>
<html>
<body>
<form>
    <label>Username
    <input type=text><br>
    <label>Password
    <input type=password><br>
    <input type=submit value="login">
    <input type=reset value="Reset">

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



You have been logged out

Login with Username and Password

User:

Password:

Login

```
<!doctype html>
```

```
<html>
```

```
<body>
```

```
<form>
```

```
    <h1>Select your gender</h1>
```

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

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

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

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

```
    <hr>
```

```
    <h1>Select your Vehcle</h1>
```

```
    <input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
```

```
    <label for="vehicle1"> I have a bike</label><br>
```

```
    <input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
```

```
    <label for="vehicle2"> I have a car</label><br>
```

```
</form>
```

```
</body>
```

```
</html>
```



Select your gender

- ☒ Male
☐ Female
-

Select your Vehcle

- ☒ I have a bike
☒ I have a car

ColorPicker

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>Show a Color Picker</h2>
```

```
<form action="/action_page.php">
```

```
  <label for="favcolor">Select your favorite color:</label>
```

```
  <input type="color" id="favcolor" name="favcolor" value="#ff0000">
```

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

```
</form>
```

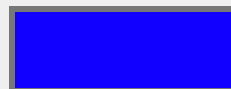
```
</body>
```

```
</html>
```



Show a Color Picker

Select your favorite color:



Submit

Date

```
<form>
```

```
<label for="birthday">Birthday:</label>
```


```
<input type="date" id="birthday"  
name="birthday">
```

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

```
</form>
```

Birthday:

mm / dd / yyyy



Submit

email type

```
<form action="/action_page.php">  
  <label for="email">Enter your email:</label>  
  <input type="email" id="email" name="email">  
  <input type="submit" value="Submit">  
</form>
```

Enter your email:

Submit



Please include an '@' in the email address. 'abcde' is missing an '@'.

file type

```
<form action="/action_page.php">  
  <label for="myfile">Select a file:</label>  
  <input type="file" id="myfile" name="myfile">  
<br><br>  
  <input type="submit" value="Submit">  
</form>
```

Select a file: No file chosen

number type

```
<form action="/action_page.php">  
  <label for="quantity">Quantity (between 1 and 5):</label>  
  <input type="number" id="quantity" name="quantity" min="1"  
max="5">  
  <input type="submit" value="Submit">  
</form>
```

Quantity (between 1 and 5):

range type

```
<form action="/action_page.php" method="get">  
  <label for="vol">Volume (between 0 and 50):  
</label>  
  <input type="range" id="vol" name="vol" min="0"  
max="50">  
  <input type="submit" value="Submit">  
</form>
```

Volume (between 0 and 50):

A horizontal range slider control. It consists of a light gray track with a blue circular thumb positioned at approximately one-third of the way from the left, representing a value of about 17.

Submit

Important <input> Attributes

- value Attribute – initial value of an element
- readonly Attribute -
`<input type="text" id="fname" name="fname" value="John" readonly>`
- size Attribute – visible width of a input element.
- placeholder Attribute – hints what value an element is expecting.

- required Attribute – **the value of that element is mandatory.**
- autofocus Attribute – **focus shifts to that attribute when the webpage is loaded.**
- list Attribute – **user can select from a predefined set of values only.**

- The form Attribute – **to associate element to a form.**
- formaction Attribute – **when an element is processed by a different server file.**
- formmethod Attribute – **to use get or post method.**
- formtarget – **where to display the response after submit.**

Audio content in HTML Document

- To play an audio file in HTML, use the `<audio>` element.

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<audio controls>
```

```
  <source src="A1.ogg" type="audio/ogg">
```

```
  <source src="A1.mp3" type="audio/mpeg">
```

Your browser does not support the audio element.

```
</audio>
```

```
</body>
```

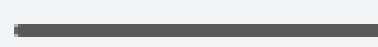
```
</html>
```



File | D:/MRCET/HTML



0:00 / 0:15



Video Content in HTML document

- The HTML <video> element is used to show a video on a web page.

```
<!DOCTYPE html>
<html>
<body>

<video controls width="320" height="240">
  <source src="SV2.mp4" type="video/mp4">
  <source src="SV2.ogg" type="video/ogg">
  Your browser does not support the video tag.
</video>

</body>
</html>
```



File | D:/MRCET/HTML/Examples/Vi.html



HTML head Elements

Tag	Description
<u><head></u>	Defines information about the document
<u><title></u>	Defines the title of a document
<u><base></u>	Defines a default address or a default target for all links on a page
<u><script></u>	Defines a client-side script
<u><style></u>	Defines style information for a document

Layouts

