Introduction of HTML

HTML is the standard markup language for creating Web pages.

What is Html

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

A simple Html document

INPUT

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
-</head>
-<body>
<h1>My First Heading</h1>
My first paragraph.
-</body>
</html>
```

The <!DOCTYPE html> defines this document is an HTML5 document.

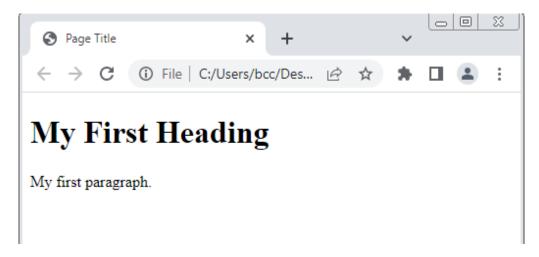
The <html> element is the root element of an HTML page.

The <head> element contains meta information about the HTML page.

The <title> element specifies a title for the HTML page. (which is shown in the browser's title bar or in the page's tab.)

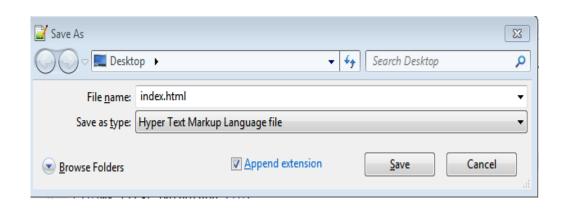
The <body> the main body of the page and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

Output



Save the HTML Page

Save the file on your computer. Select **File>**Save in the Notepad menu.Name the file "index.html".



Tip

You can use either .htm or .html as file extension. There is no difference; it is up to you.

HTML Element

An HTML element is defined by a start tag, some content, and an end tag:

```
chody>
<h1>My First Heading</h1>
My first paragraph.
-</body>
```

Note

Some HTML elements have no content (like the
 element). These elements are called empty elements. Empty elements do not have an end tag!

HTML is Not Case Sensitive

HTML tags are not case sensitive: <P> means the same as .

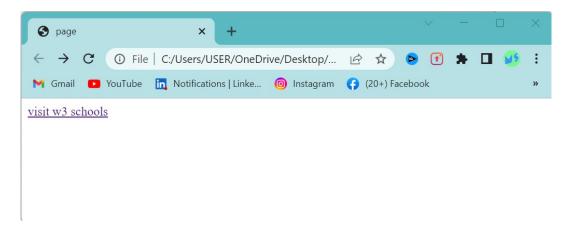
HTML Attributes

HTML attributes provide additional information about HTML elements.

Attributes are always specified in the start tag.

Attributes usually come in name/value pairs like: name="value"

```
<a href="https://www.w3schools.com">Visit W3Schools</a>
```

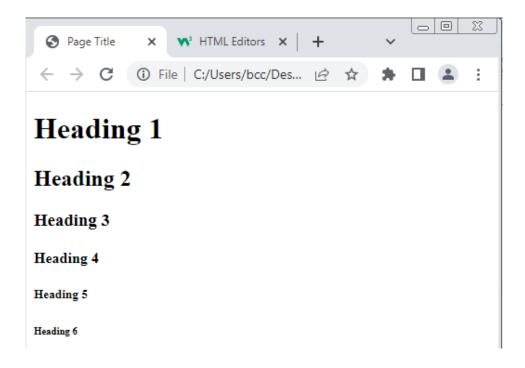


HTML Headings

HTML headings are titles or subtitles that you want to display on a webpage.

HTML headings are defined with the $\langle h1 \rangle$ to $\langle h6 \rangle$ tags.

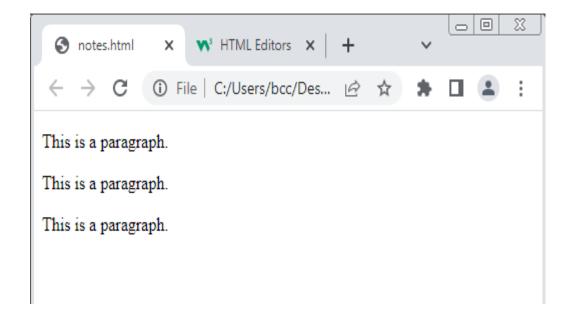
```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<tody>
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
</body>
```



HTML Paragraphs

The HTML element defines a paragraph.

```
<!DOCTYPE html>
<html>
<body>
This is a paragraph.
This is a paragraph.
This is a paragraph.
This is a paragraph.
<html>
</html>
```



HTML Display

The browser will automatically remove any extra spaces and lines when the page is displayed

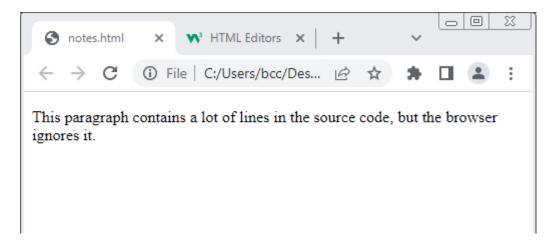
```
<!DOCTYPE html>

<ntml>

This paragraph
contains a lot of lines
in the source code,

but the browser
ignores it.

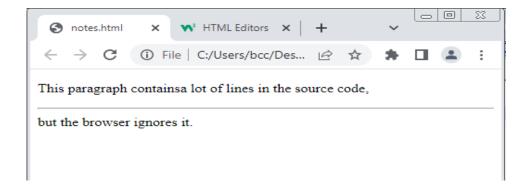
</body>
</pt>
```



HTML Horizontal Rules

The <hr> tag displayed as a horizontal rule in the html page. The <hr> tag is an empty tag, which means that it has no end tag.

```
c!DOCTYPE html>
chtml>
cbody>
cp>
This paragraph
containsa lot of lines
in the source code,
chr>
but the browser
ignores it.
-
-</body>
-</html>
```



HTML Line Breaks

The HTML
 element defines a line break.

Input

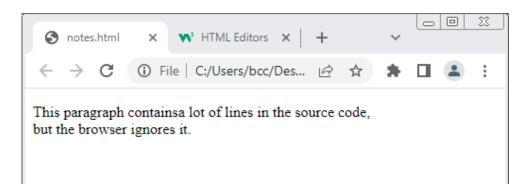
```
<!DOCTYPE html>

This paragraph
contains lot of lines
in the source code,

but the browser
ignores it.

</body>
</html>
```

Output



HTML Element

The HTMLelement defines
preformatted text.

The text inside a element is displayed in a fixed-width font (usually Courier), and it preserves both spaces and line breaks

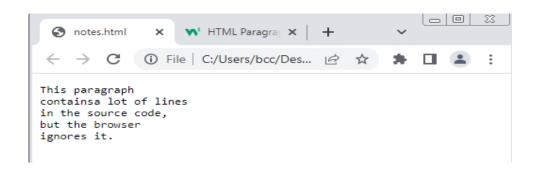
Input

```
<!DOCTYPE html>

This paragraph
containsa lot of lines
in the source code,
but the browser
ignores it.

-</body>
-
-
-
-
```

Output



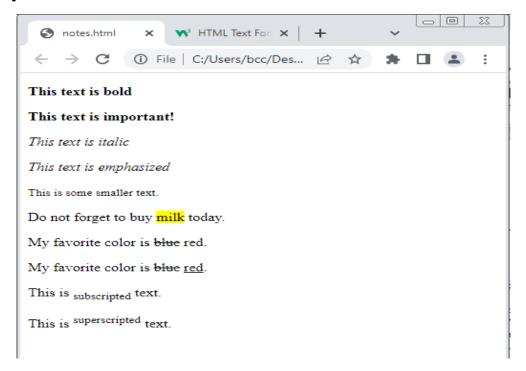
HTML Formatting Elements

Formatting elements were designed to display special types of text:

- - 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>

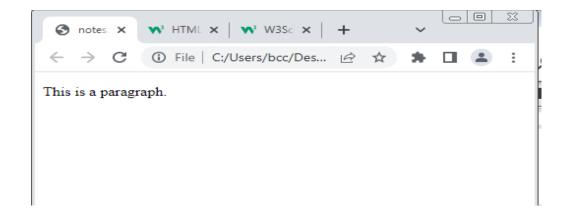
<html>
<html>
<body>
<tb>This text is bold</b>
<ti>>p><strong>This text is important!</strong>
<tm>This text is italic</i>
<em>This text is emphasized</em>
<mall>This is some smaller text.</small>
Do not forget to buy <mark>milk</mark> today.
My favorite color is <del>blue</del> red.
My favorite color is <del>blue</del> cins>red</ins>.
This is <sub>subscripted</sub> text.
This is <sup>superscripted</sup> text.
</body>
</html>
```



HTML Comments

HTML comments are not displayed in the browser, but they can help document your HTML source code.

```
<!DOCTYPE html>
<html>
<body>
<!-- This is a comment -->
This is a paragraph.
<!-- Comments are not displayed in the browser -->
-</body>
</html>
```



Background colour in HTML tag

We can also change background color with the help of HTML tag by using bgcolor attribute. This HTML attribute works only in body tag.

Input

Output

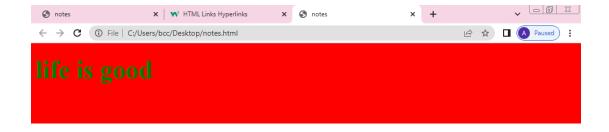


Font tag (color and size)

This HTML tag is used to change color and size of the text.

Input

Output



HTML Links - Hyperlinks

<a>> tag defines a hyperlink.

HTML links are hyperlinks. The HTML

The most important attribute of the <a>element is the href attribute, which indicates the link's destination.

HTML links-the target attributes

The target attribute specifies

where to open the link document.

The target attributes can have one of the following values:

_self

Default, opens the document in this same window or tab as it was clicked.

_Blank

Opens the document in a new window or tab.

Parent

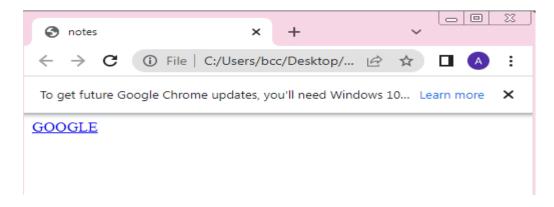
Opens the document in the parent frame.

_top

Opens the document in the full body of the window.

Framename

Opens the link document in the named target frame.

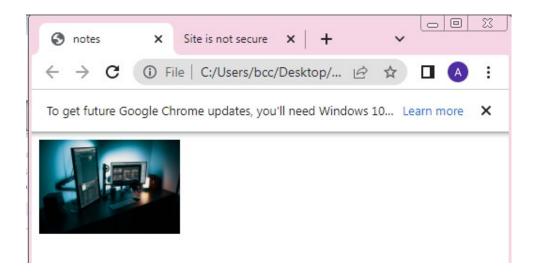


Use an image as a link

To use an image as a link just put the tag inside the <a> tag.

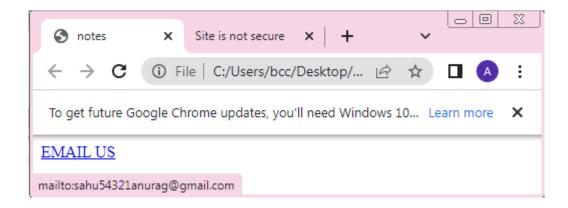
```
<!DOCTYPE html>
</html>
</head>
</head>
</head>
</head>
</body>

<a href="http://www.google.com" target="_blank">
</img src="C:\Users\bcc\Downloads\comp.jpg" height="100px"></a>
</html>
```



Link to an email address

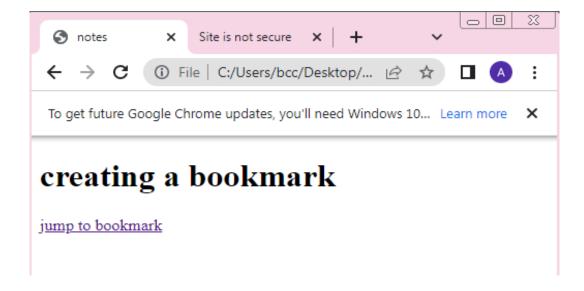
Use mailto: inside the href attribute to create a link that opens the users email program to let them send a new message.



Creating a bookmark using anchor tag

HTML links can be used to create bookmarks so that readers can jump to specific parts of a web page.

- first use the id attribute to create a bookmark.
- Then add the a link to the bookmark from within the same page.



You can also add a link to a bookmark on another page.

Link titles

The title attribute specifies extra information about an element the information is must often shown as a tooltip text when the mouse moves over the element.

Image maps

The HTML <map> tag defines an image map. An image map is an image with clickable areas. The areas are defined with one or more <area> tags.

Create image map

To use image map first you have to insert image by using the tag.and must add a usemap attribute.

The usemap values that hash tag # followed by the name of the image map.

Then add a <map> element. The <map> element is used to create an image map, and is link to the image by using the required name attribute.

The name attribute must have the same value as the tag's usemap attribute.

Then, add a clickable areas. A clickable area is defined using an <area> element.

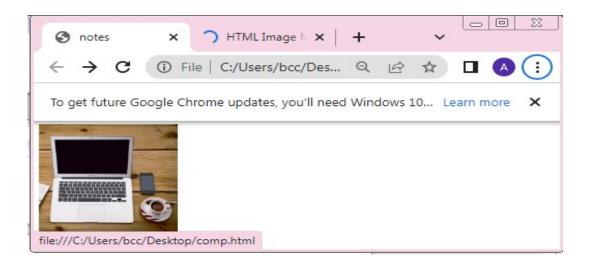
You must define the shape of the clickable area, and you can choose one of these values:-

- **Rect** defines a rectangular region.
- **Circle** defines circular region.
- **Poly** defines a polygon region.

Shape="rect"

The coordinates of the shape="rect" come in pairs, one for the x-axis and one for the y-axis.

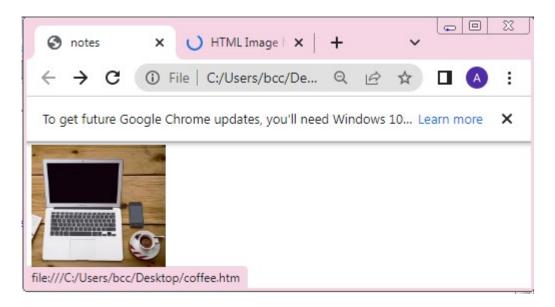
Output



Shape ="circle"

To add a circle area, first locate the coordinates of the centre of the circle. Then specify the radius of the circle.

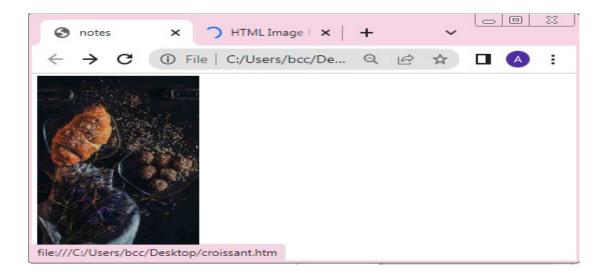
Output



Shape="poly"

The shape poly contains several coordinate points, which creates a shape formed with straight line (a polygon).

Output



HTML tables

HTML table allow web developers to arrange data into rows and columns.

```
<!DOCTYPE html>,
<html>
<head>
<title>notes</title>
</head>
-<body>
<h2>A basic HTML table</h2>
Company
   Contact
   Country
  Alfreds Futterkiste
   Maria Anders
   Germany
  Centro comercial Moctezuma
   Francisco Chang
   Mexico
  </body>
</html>
```

Output



The <Table>

Table tag consist of table cells inside rows and columns.

Table rows

Each table row starts with a and end with tag.tr stand for table row.

Table cells

Each table cell is defined by a and tag stands for table data. Everything between and the content of the table cell.

Table headers

Sometimes you want your cells to be headers, in those cases use the tag instead of the tag.

*You can have as many Rows as you like in a table, just make sure that the number of cells are the same in each row.

Caption

It is used to defines a table caption. To add a caption to a table, use the <aption> tag.

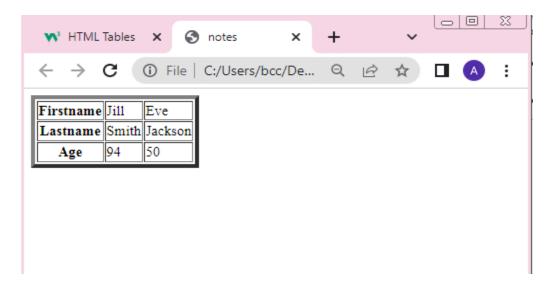
```
<!DOCTYPE html>
<html>
<title>notes</title>
</head>
<h2>A basic HTML table</h2>
<table border
            "5px"
<caption>Monthly savings</caption>
Savings
January
$100
$50
</body>
</html>
```



Vertical table

To use the first column as table headers, define the first cell in each row as a <th>.

```
<!DOCTYPE html>
-<html>
=<head>
<title>notes</title>
-</head>
<body>
Firstname
Jill
Eve
Lastname
Smith
Jackson
Age
94
50
 </body>
</html>
```

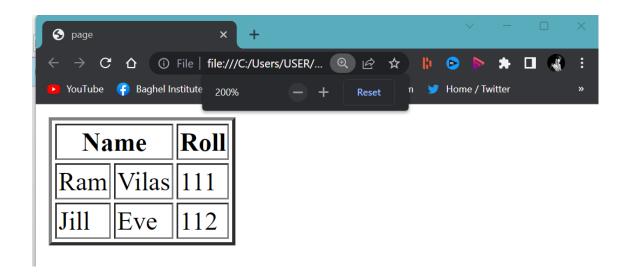


Merge columns(colspan)

To make a cell span over multiple columns, use the colspan attribute. The value of the colspan attribute represent the number of the column to span.

```
<!doctype html>
 \langle html \rangle
=\\ntmi>
=\<head>
 <title>page</title>

<
 Name
 Roll
 /
|
|
|
|
|
 <td>Ram
 Vilas
 111
 -
 Jill
 Eve
 112
 </body>
 </html>
```

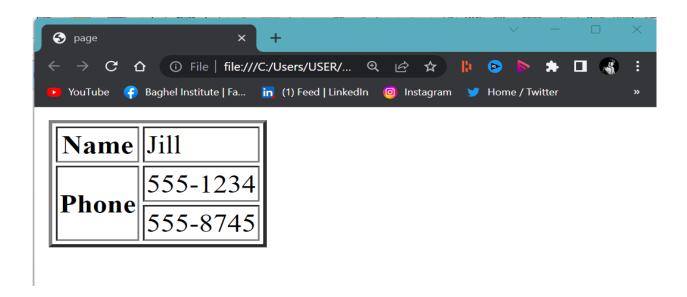


Merge rows(rowspan)

To make a cell span over multiple rows, use the rowspan attribute.

The value of the rowspan attribute present the number of rows to span.

```
<!doctype html>
<html>
<head>
<title>page</title>
</head>
<body>
Name
Jill
-
Phone
555-1234
555-8745
-
-</body>
</html>
```



Some attributes of table tag

Cellpadding

It is used to create space between cell and the text.

Cellspacing

It is used to create spacing between the table border and the cell.

Border

It is used to create border around the table.

Align

It is used to align the table in center, left or right.

Width

It is used to define size of the table.

```
<!doctype html>
<html>
-
<head>
<title>page</title>
</head>
-
<body>
Name
Jill
Phone
555-1234
555-8745
</body>
</html>
```

Output



HTML lists

HTML list allows web developer to group a set of related items in lists. There are three types of lists;

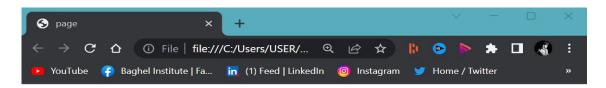
- Ordered list ().
- Unordered list ().
- Description list(<dl>).

Ordered list

An ordered list start with the tag. Each list item start with the tag. The list items will be marked with numbers by default.

Input

Output



- 1. Coffee
- 2. Tea
- 3. Milk

Unordered list

An unordered list start with the $\langle ul \rangle$ tag. Each list item starts with the $\langle li \rangle$ tag.

The list item will be marked with bullets (small black circles) by default.

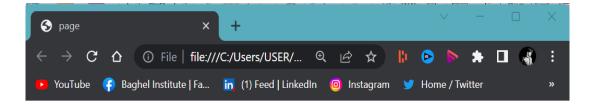
Input

```
<!doctype html>
<html>
<head>
<title>page</title>
-</head>
<body>

Coffee
Tea
Milk

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

Output



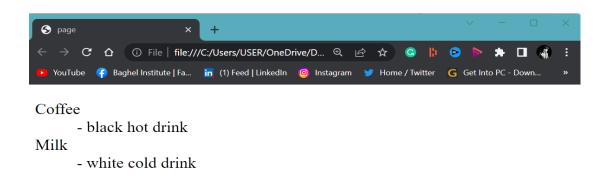
- Coffee
- Tea
- Milk

Description list

HTML also supports description lists. A description list is a list of terms, with a description of each term. The $\langle dl \rangle$ tag define the description list, the $\langle dt \rangle$ tag defines the term (name), and the $\langle dd \rangle$ tag describe each term.

Input

Output



Ordered list the type attribute

type="1"

The list items will be numbered with numbers (default).

type="A"

The list items will be numbered with uppercase letters.

type="a"

The list items will be numbered with lowercase letters.

type="I"

The list items will be numbered with uppercase roman numbers.

type="i"

The list items will be numbered with lowercase roman numbers.

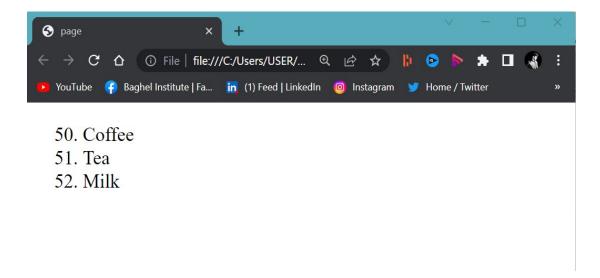
Control List Counting

By default, an ordered list will start counting from 1. If you want to start counting from a specified number, you can use the start attribute:

```
<!doctype html>
<html>
<head>
<title>page</title>
</head>
<body>
<body>
<ti>Col type="1" start="50">
Coffee
Tea
Milk

</rr>
</ra>

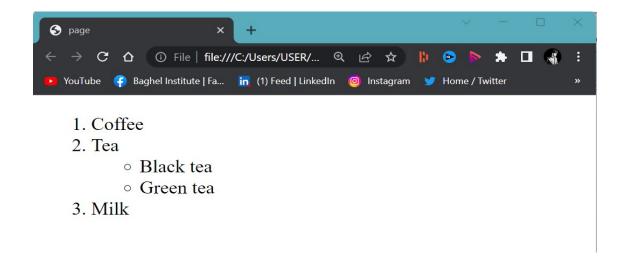
</body>
</html>
```



Nested HTML Lists

Lists can be nested (list inside list).

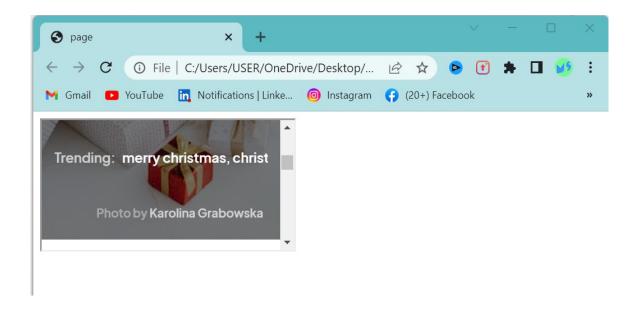
```
<!doctype html>
<html>
<head>
<title>page</title>
</head>
<body>
Coffee
Tea
ul>
Black tea
Green tea
-
Milk
-</body>
</html>
```



Note: A list item () can contain a new list, and other HTML elements, like images and links, etc.

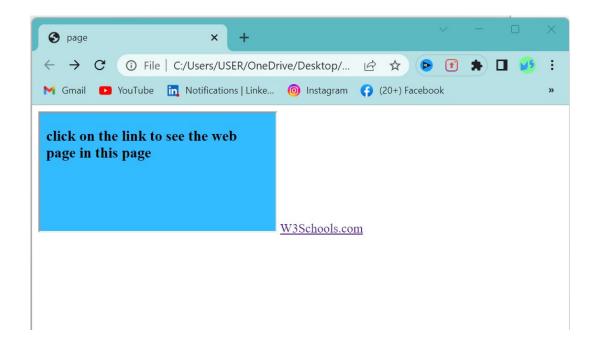
HTML Iframe

An HTML <Iframe> tag is used to display a web page within a web page. The HTML Iframe tag specifies an inline frame. Always include a title attribute for the <iframe> tag.



Iframe-Target for a link

An Iframe can be used as a target frame for a link. The target attribute for the link must refer to the name attribute of the iframe.



HTML frames:frameset, nested frames

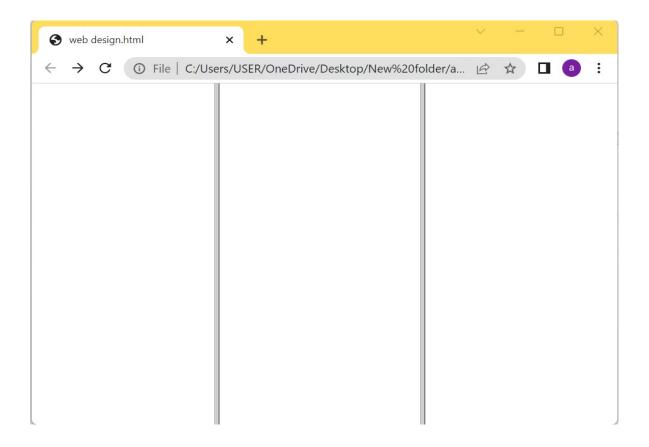
Websites have sticky navigation menus that are visible either in the page sidebar or at the top of the page as you scroll up and down the page.

- Use the frame set element in place of the head element in an HTML document.
- Different file with the contents for each frame.

Creating vertical columns

To create a set of vertical columns we need to use the frameset element with the cols attribute. Where we define the size and number of the column.

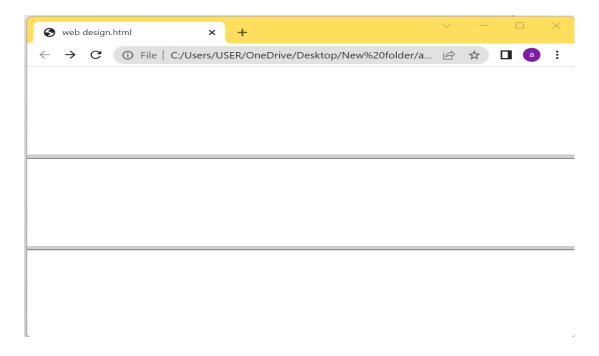
Input



Creating a horizontal rows

Rows of the frame can be created by using the rows attribute rather than the column attribute as shown in the HTML below.

Input



Nested frames

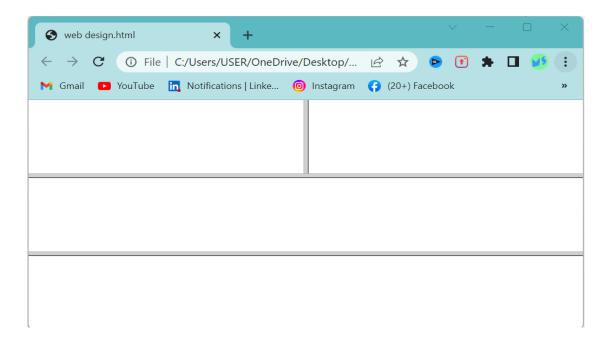
The nested frameset takes the place of the first frame within the parent element; the nested element can be placed in any position.

Input

```
<!doctype html>

<html>

<frameset rows="33%,33%,33%">
<frameset cols="50%,50%">
<frame name="frame1">
<frame name="frame2">
</frameset>
<frame name="frame3">
<frame name="frame4">
</frameset>
<title>page</title>
-</head>
<body>
-</body>
</html>
```



Targeting frame with links

you can use a frame as a target frame for a link. Anchor tag can be formatted to target specific frames by assigning a name attribute to a targeted frame element.

• In order to do this we need to assign a name to our target.

Input

```
<!doctype html>
-<head>
|<head>
<Frameset
rows="50%,50%">
<frameset cols="33%,33%">
<frame name="frame1"src="web.html">
-<frame name="frame2"> </frameset>
<frame name="frame3">
</frameset>
<title>page</title>
-</head>
<body>
-</body>
</html>
```

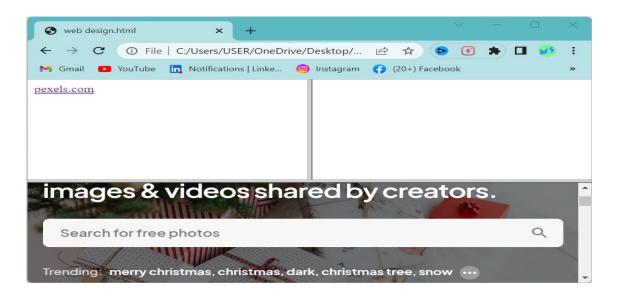
 Now create a page where you want to add an anchor for targeting link and then you can link the page with your frame.

```
<!doctype html>
<html>
<head>
<head>
<title>page</title>
-</head>

doctype html>

head>
<title>page</title>
-</head>

a href="https://www.pexels.com/" target="frame3"> pexels.com</a>
-</body>
-</html>
```



Some optional attributes for frameset

frameborder

Specifies whether or not to display a border around a frame.

marginheight

Specifies the top and bottom of a frame. It can be defined in pixels.

marginwidth

Specifies the left and right margin of a frame and value is defined in pixels.

Name

Specifies the name of a frame. It cannot be started with a number.

Noresize

Specifies that a frame is not resizable.

Scrolling

Specifies whether or not display scrolling bar in a frame. you can put any one value in scrolling attributein this three values; yes,no,auto .

Src

Specifies the URL of the document to show in a frame.

HTML Block and Inline Elements

Block-level Elements

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

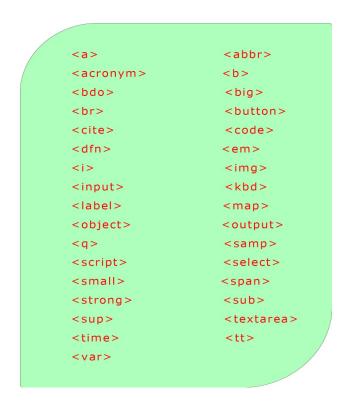
Here are the block-level elements in HTML

```
<address>
                   <article>
<aside>
                   <blookquote>
<canvas>
                   <dd>
<div>
                   <dl>
<dt>
                   <fieldset>
<figcaption>
                   <figure>
<footer>
                   <form>
<h1>-<h6>
                   <header>
                   <
<hr>
<main>
                   <nav>
<noscript>
                   <01>
>
                   <section>
                   <tfoot>
                   ul>
<video>
```

Inline Elements

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

Here are the inline elements in HTML



*Note

An inline element cannot contain a block-level element!

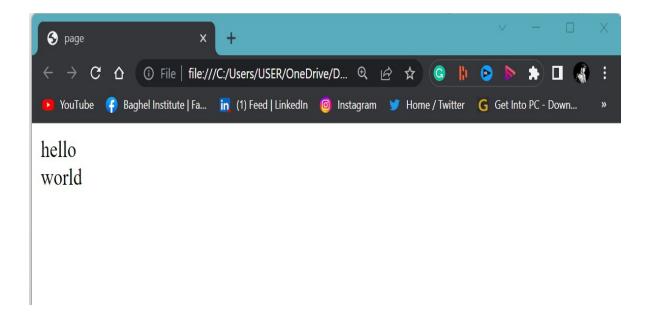
Div tag

This is a block element .The <div> element is often used as a container for other HTML element.

Input

```
<!doctype html>
<head>
<title>page</title>
</head>
<body>
<div> hello</div>
<div> world</div>
</body>
</html>
```

Output

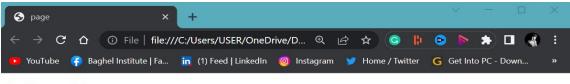


Span tag

This is an inline element .The span element is an element container used to markup a part of a text or a part of a document.

Input

Output



hello world

HTML forms

An HTML form is used to collect user input. The user input is most often sent to the server for processing. The HTML <form> element is used to create an HTML form for user input:

Example <form>

```
-- form element--
```

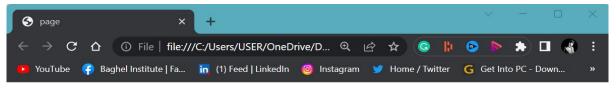
```
</form>
```

The < label > Element

The <label>tag defines a label for many form elements. The for attribute of the <label> tag should be equal to the id attribute of the element to bind them together.

Input

Output



First name:

The <input> Element

The HTML <input> element is the most used form element.

An <input> element can be displayed in many ways, depending on the type attribute.

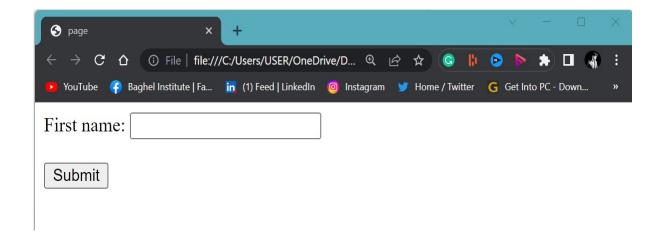
Here are some examples:

Туре	Description
<input type="text"/>	Displays a single-line text input field
<input type="radio"/>	Displays a radio button (for selecting one of many choices)
<input type="checkbox"/>	Displays a checkbox (for selecting zero or more of many choices)
` <input type="submit"/>	Displays a submit button (for submitting the form)
<input type="button"/>	Displays a clickable button

Text Fields

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

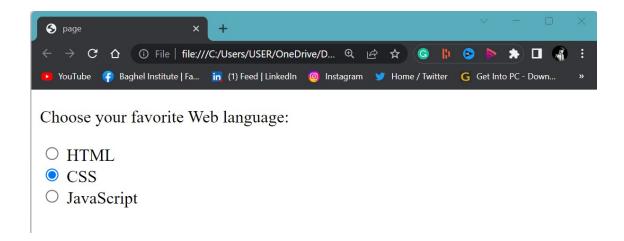
```
<!doctype html>
<html>
<head>
<title>page</title>
</head>
<body>
<form>
<label for="fname">First name:</label>
<input type="text" id="fname" name="fname">
<br>
<br>
<br>
<br>
<br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```



Radio Buttons

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

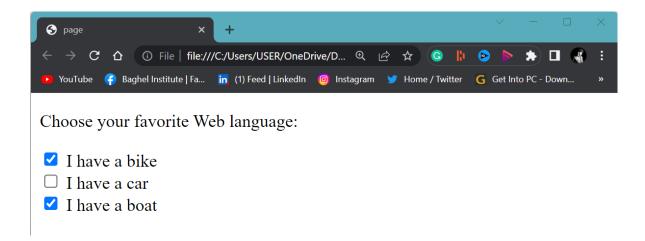
```
<!doctype html>
 <html>
=
<head>
 <title>page</title>
-</head>
<body>
  Choose your favorite Web language:
-<form>
 <input type="radio" id="html" name="fav_language" value="HTML">
 <label for="html">HTML</label><br>
 <input type="radio" id="css" name="fav_language" value="CSS">
 <label for="css">CSS</label><br>
 <input type="radio" id="javascript" name="fav_language" value="JavaScript">
 <label for="javascript">JavaScript</label>
-</form>
-</body>
</html>
```



Checkboxes

The <input type="checkbox"> defines a checkbox. Checkboxes let a user select ZERO or MORE options of a limited number of choices.

```
<!doctype html>
-<html>
-
<head>
<title>page</title>
-</head>
cbody>
Choose your favorite Web language:
 <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>
<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
<label for="vehicle3"> I have a boat</label>
-</form>
-</body>
L</html>
```

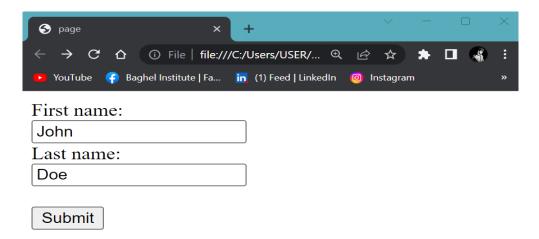


The Submit Button

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

The form-handler is specified in the form's action attribute.

```
<!doctype html>
\equiv<html>
-<head>
<title>page</title>
</head>
=<body>
<form action="/action page.php">
<label for="fname">First name:</label>
<input type="text" id="fname" name="fname" value="John">
<br>
<label for="lname">Last name:</label>
<br>
<input type="text" id="lname" name="lname" value="Doe">
<br><br><br>
<input type="submit" value="Submit">
</form>
-</body>
</html>
```



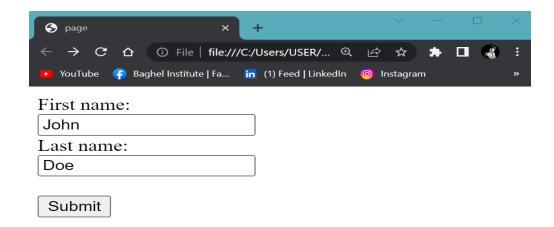
The Name Attribute for <input>

Notice that each input field must have a name attribute to be submitted. If the name attribute is omitted, the value of the input field will not be sent at all.

The Action Attribute

The action attribute defines the action to be performed when the form is submitted.

```
<!doctype html>
<html>
<head>
<title>page</title>
-</head>
=|<body>
<form action="/action page.php">
 <label for="fname">First name:</label>
<input type="text" id="fname" name="fname" value="John">
<br>
<label for="lname">Last name:</label>
<input type="text" id="lname" name="lname" value="Doe">
<br><br><br>>
<input type="submit" value="Submit">
</form>
</body>
</html>
```



The HTML <form> Elements

The HTML <form> element can contain one or more of the following form elements:

<input>
<label>
<le>clabel>
<select>
<textarea>
<button>
<fieldset>
<legend>
<datalist>
<option>
<optgroup>

The <select> Element

The <select> element defines a drop-

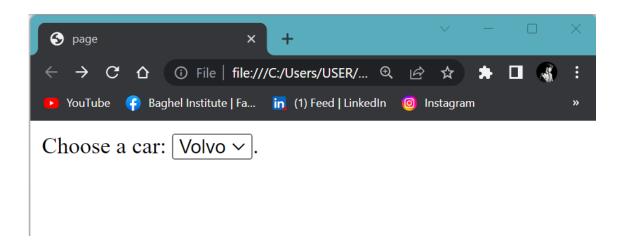
down list:

Input

```
<!doctype html>
</html>
</head>
</ittle>page</title>
-</head>
</body>
</abel for="cars">Choose a car:</label>

</select id="cars" name="cars">
</option value="volvo">Volvo</option>
</option value="saab">Saab</option>
</option value="fiat">Fiat</option>
</option value="audi">Audi</option>
-</select>.
-</body>
-</hr>
```

Output



The <option> elements defines an option that can be selected. By default, the first item in the drop-down list is selected.

Visible Values

Use the size attribute to specify the number of visible values.

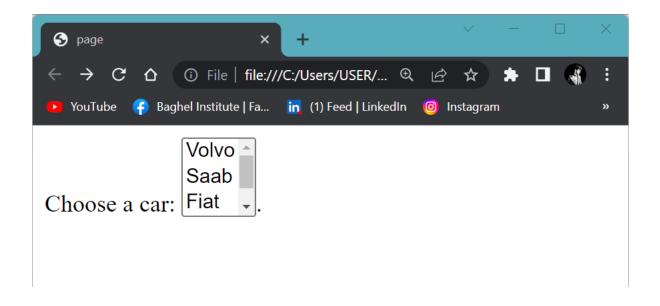
Input

```
<!doctype html>
</html>
</head>
<title>page</title>
</head>
<tabel for="cars">Choose a car:</label>

<select id="cars" name="cars" size="3">
<option value="volvo">Volvo</option>
<option value="saab">Saab</option>
<option value="fiat">Fiat</option>
<option value="audi">Audi</option>
<option value="audi">Audi</option>

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

</pd>
```



The <textarea> Element

The <textarea> element defines a multi-line input field (a text area):

Input

```
<!doctype html>
</html>
</head>
<title>page</title>
</head>
<body>

<textarea name="message" rows="10" cols="30">
The cat was playing in the garden.
</textarea>.

</body>
</html>
```

Output



The rows attribute specifies the visible number of lines in a text area.

The cols attribute specifies the visible width of a text area.

The <fieldset> and <legend> Elements

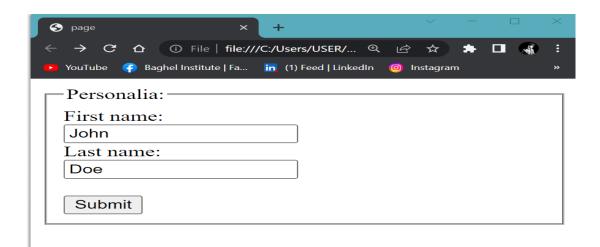
The <fieldset>

element is used to group related data in a form.

The <legend> element defines a caption for the <fieldset> element.

Input

```
<!doctype html>
<html><html><head>
<title>page</title>
</head>
cbody>
=<form action="/action_page.php">
<legend>Personalia:</legend>
 <label for="fname">First name:</label><br>
 <input type="text" id="fname" name="fname" value="John">
 <label for="lname">Last name:</label>
 <br>
 <input type="text" id="lname" name="lname" value="Doe">
 <br><br>>
 <input type="submit" value="Submit">
 </fieldset>
</form>
 -</body>
</html>
```

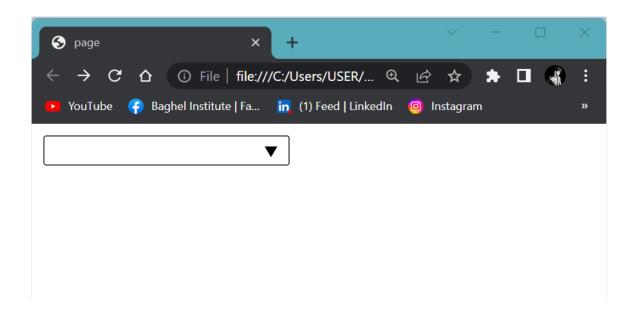


The <datalist> Element

The <datalist> element specifies a list of pre-defined options for an <input> element. The list attribute of the <input> element, must refer to the id attribute of the <datalist> element.

Input

```
<!doctype html>
</html>
<head>
<title>page</title>
</head>
<body>
<form action="/action_page.php">
<input list="browsers">
<datalist id="browsers">
<option value="Internet Explorer">
<option value="Firefox">
<option value="Chrome">
<option value="Chrome">
<option value="Chrome">
<option value="Safari">
<option v
```



HTML Input Types

Here are the different input types you can use in HTML:

- <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">

Input attributes

Here is a list of some common input attributes

Checked

Specifies that an input field should be pre-selected when the page loads (for type="checkbox" or type="radio").

Disabled

Specifies that an input field should be disabled.

Max

Specifies the maximum value for an input field.

Maxlength

Specifies the maximum number of character for an input field.

Min

Specifies the minimum value for an input field.

Pattern

Specifies a regular expression to check the input value against.

Readonly

Specifies that an input field is read only (cannot be changed).

Required

Specifies that an input field is required (must be filled out).

Size

Specifies the width (in characters) of an input field.

Value

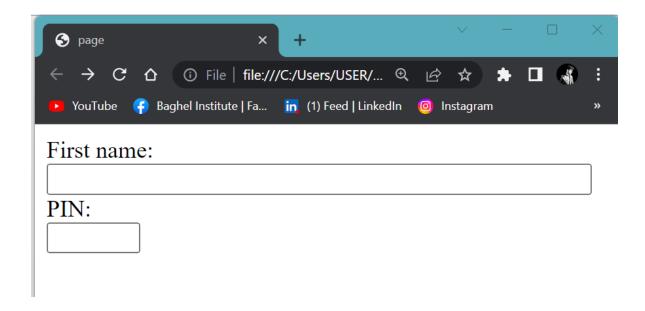
Specifies the default value for an input field.

The size Attribute

The default value for size is 20. The size attribute works with the following input types: text, search, tel, url, email, and password.

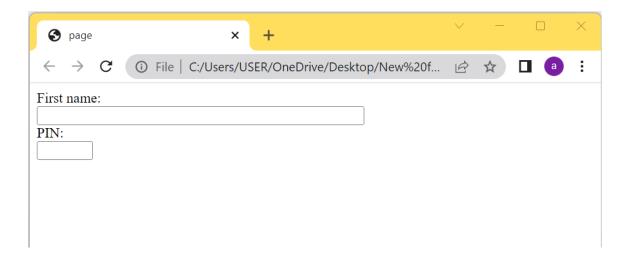
```
<!doctype html>
</html>
</head>
<title>page</title>
</head>

<body>
<form>
<label for="fname">First name:</label>
<br>
<input type="text" id="fname" name="fname" size="50">
<br>
<label for="pin">PIN:</label>
<br>
<label for="pin">PIN:</label>
<br>
<input type="text" id="pin" name="pin" size="4">
</form>
</form>
</body>
</html>
```



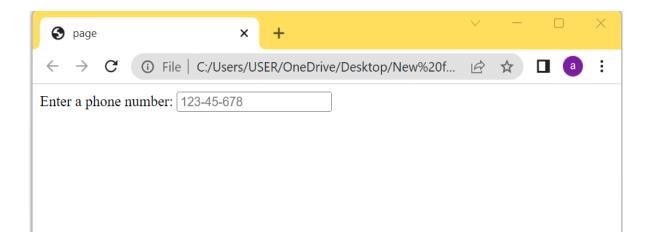
The maxlength Attribute

The input maxlength attribute specifies the maximum number of characters allowed in an input field.



The placeholder Attribute

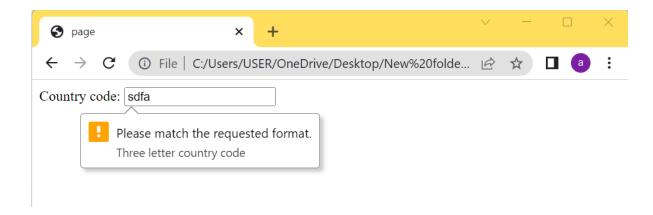
The short hint is displayed in the input field before the user enter a value. The placeholder attribute works with the following input types: text, search, url, tel, email, and password.



The pattern Attribute

The input pattern attribute specifies a regular expression that the input field's value is checked against, when the form is submitted.

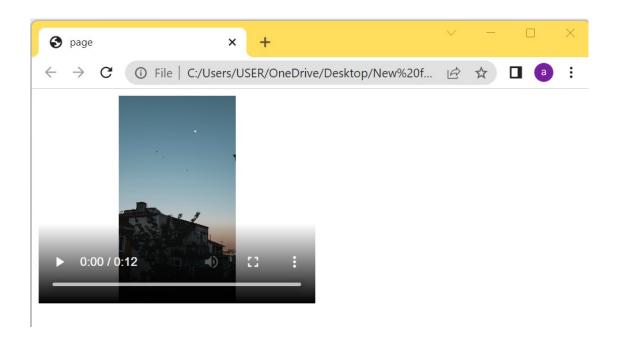
The pattern attribute works with the following input types: text, date, search, url, tel, email, and password.



HTML Video

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

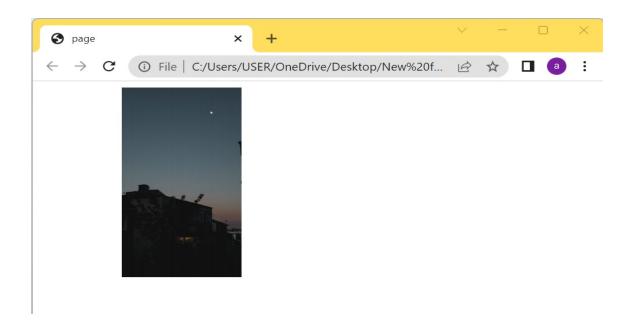
```
<!doctype html>
</html>
</head>
</head>
</head>
</head>
</body>
</wideo width="320" height="240" controls>
</source src="video.mp4" type="video/mp4">
-/video>
-/body>
</html>
```



HTML <video> Autoplay muted

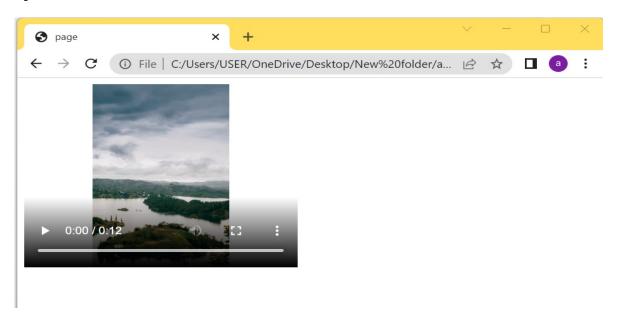
Add muted after autoplay to let your video start playing automatically (but muted):

```
<!doctype html>
<html>
<head>
<title>page</title>
-</head>
<body>
<video width="320" height="240" autoplay muted>
<source src="video.mp4" type="video/mp4">
-</video>
-</body>
</html>
```



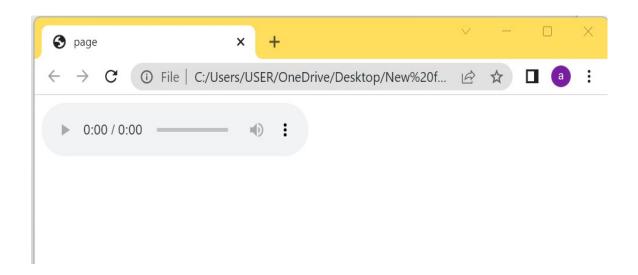
HTML poster Attribute

The poster attribute specifies an image to be shown while the video is downloading, or until the user hits the play button.



HTML Audio

The HTML <audio> element is used to play an audio file on a web page.



HTML <audio> Autoplay

To start an audio file automatically, use the autoplay attribute:

Example

```
<!doctype html>
<html>
<head>
<title>page</title>
</head>
<body>
<audio controls autoplay>
<source src="horse.mp3" type="audio/mpeg">
</audio>
</body>
</html>
```

HTML <audio> Autoplay muted

Add muted after autoplay to let your audio file start playing automatically (but muted):

Example