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HTML

Forms in HTML



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Learning Objectives

By the end of this lesson, you will be able to:

- Illustrate the concept of forms in HTML for creating interactive and user-friendly web applications
- Identify the HTTP methods to ensure the data is transmitted correctly and securely
- Analyze the concept of checkboxes, radio buttons, and iframes to enable the integration of dynamic content within web pages
- Define the usage of input text fields to create accessible and user-friendly forms



Forms

Forms: Overview

HTML forms collect user input and send it to a server for processing. They are crucial for web applications, enabling actions like signing up, logging in, submitting feedback, and conducting searches.

An HTML document contains:



Normal content



Markup



Controls



Labels



Forms: Example

Here is an example of a form:

First Name:		2/8 · (20)
Last Name:		
Date of Birth:		
Free ail ID:		
Email ID:		
Mobile Number:		
SUBMIT	RESET	

Forms: Syntax

An HTML form is defined using the <form> element, which can contain various form controls such as text fields, checkboxes, radio buttons, and submit buttons. The basic syntax is as follows:

```
<form>
Text fields, checkboxes, radio buttons,
submit buttons.
</form>
```



Forms: Action Attribute

The action attribute of **<form>** defines the process to be performed on the form.

The form can be processed using .php, .jsp, .asp, or any other URL.

Input type

The input type="text" specifies a single-line text input field.

Label

Form elements have a label defined by the label tag.

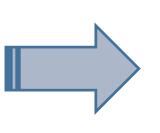
Therefore, the attribute is the ID of the element that the label is associated with.



Forms: Example

```
<!DOCTYPE html>
<html>
<body>
<h2>HTML Forms</h2>
<form>
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname"</pre>
value="Rehmat"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname"</pre>
value="kaur"><br><br>
  <input type="submit" value="Submit">
</form>
</body>
</html>
```

Output



HTM	L Forms
First nan	ne:
Rehmat	
Last nan	ne:
kaur	
Submit	

Creating Forms Using HTML



Problem Statement:

You have been asked to create a form using HTML.

Outcome:

By completing this task, you created a form using HTML. You started by creating the index.html file, then added forms to the web page. Finally, you viewed the results in your local browser.

> **Note**: Refer to the demo document for detailed steps: 01_Creating_Forms_Using_HTML

Assisted Practice: Guidelines

Steps to be followed:

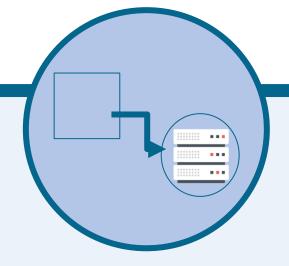
- 1. Create the index.html file
- 2. Add forms to the web page3. View the results in your local browser



HTTP Methods

HTTP Methods

HTTP methods specify the action to be performed on the server when a form is submitted. The two most common methods are GET and POST.

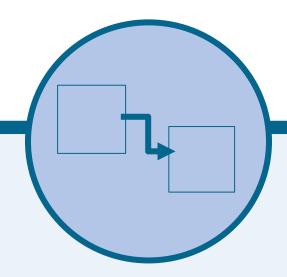


To send data to a server, utilize the POST method, since it:

- Is never cached
- Does not remain in the browser history
- Cannot be bookmarked
- Has no restrictions on data length



HTTP Methods



With the GET method, one may retrieve data from a specified resource since it:

- Remains in the browser history
- Can be bookmarked
- Is never used when dealing with sensitive data
- Has length restrictions
- Is used only to request data



Input Text Fields

Input Text Fields

An input text field in HTML is a form element that allows users to enter text. It is created using the <input> tag with the type attribute set to text.



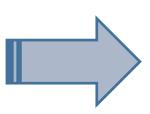
A single-line text input field is defined by **input type="text">.**

The text field's default width is 20 characters.

Input Text Fields: Example

```
<!DOCTYPE html>
<html>
<body>
<h3>Text Fields</h3>
<form>
<label for="fname">First Name:</label><br>
<input type="text" id="fname" name="fname"><br>
<label for="lname">Last Name:</label><br>
<input type="text" id="lname"</pre>
name="lname"><br><br>
</form>
</body>
</html>
```

Output



Text Fields

First Name:

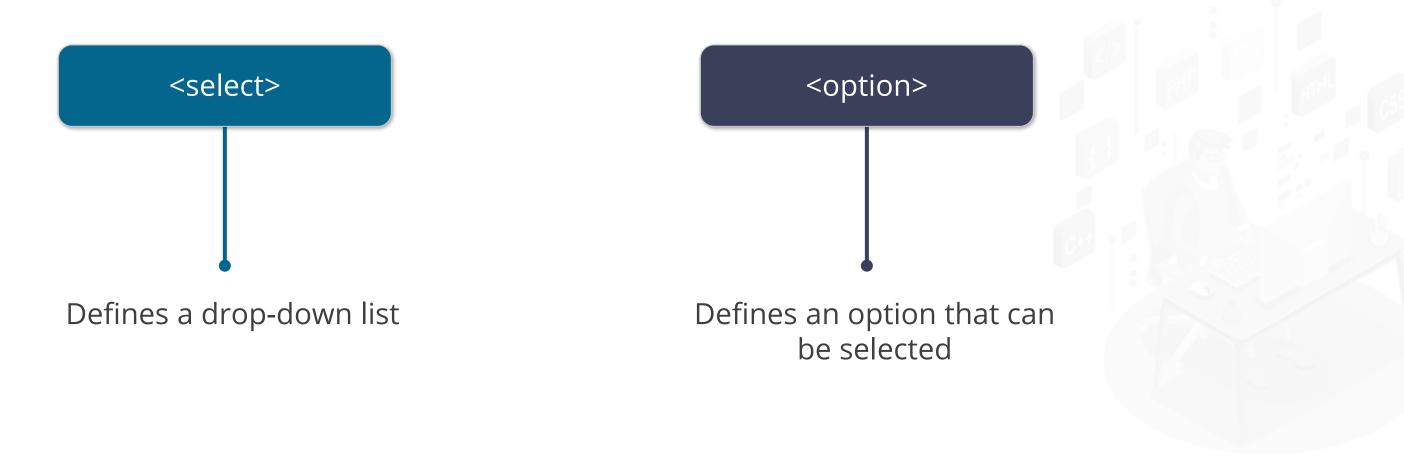
Last Name:



Select Menus

Select Menus

These are used to create drop-down lists in HTML forms. Here are the following select menu elements:



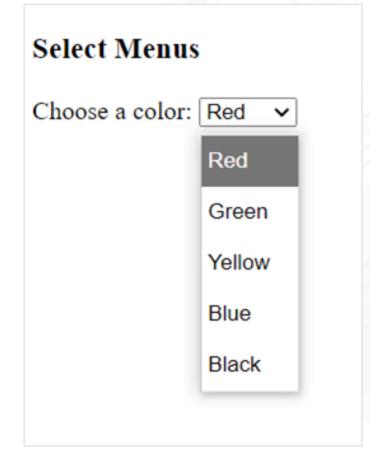
To define a pre-selected option, the user must add the selected attribute to the option.



Select Menus: Example

```
<!DOCTYPE html>
<html>
<body>
<h3>Select Menus</h3>
<form>
<label for="colors">Choose a color:</label>
<select id="colors" name="colors">
<option value="red">Red</option>
<option value="green">Green</option>
<option value="yellow">Yellow</option>
<option value="blue">Blue</option>
<option value="black">Black</option>
</select>
</form>
</body>
</html>
```

Output



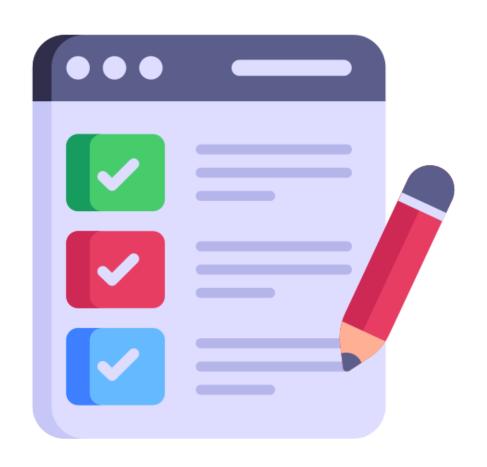


Checkboxes and Radio Buttons

Checkboxes

Checkboxes are commonly used to record inputs.

A checkbox allows one or more selections from a list.





Checkboxes: Example

The **<input type="checkbox">** defines a checkbox.

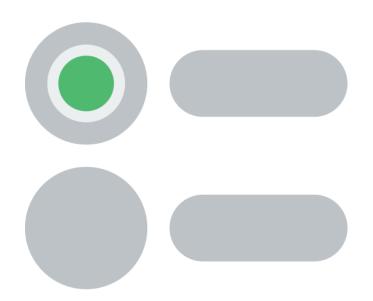
```
<!DOCTYPE html>
<html>
<body>
<form>
Choose languages you know:
<br>
<input type="checkbox" name="HTML"</pre>
value="yes">HTML<br>
<input type="checkbox" name="C#"</pre>
value="yes">C#<br>
<input type="checkbox" name="Java"</pre>
value="yes">Java<br>
</form>
</body>
</html>
```



Radio Buttons

Radio buttons allow choosing one option.

A radio button is defined with the **<input type="radio">**.

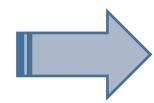




Radio Buttons: Example

```
<!DOCTYPE html>
<html>
<body>
<form>
Select the right option:
<br>>
<input type="radio" name="male"</pre>
value="male">Male<br>
<input type="radio" name="female"</pre>
value="female">Female<br>
      </form>
</body>
</html>
```

Output



Select the right option:

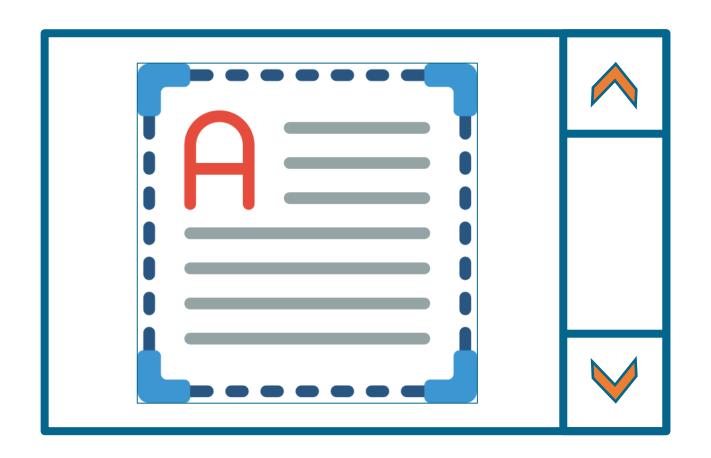
- O Male
- O Female

Text Areas, Buttons, and Iframes

Text Areas

The **<textarea>** tag defines multi-line text input control.

This element is used to collect the user inputs.

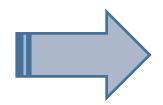




Text Areas: Example

```
<!DOCTYPE html>
<html>
<body>
<h2>The textarea element</h2>
<form>
<textarea id="message" name="message" rows="4"
cols="50">
Our world is an amazing place. Let's keep our
planet neat and clean. Remember to use trash
bins and maintain hygiene in your surroundings.
</textarea>
<br>
</form>
</body>
</html>
```

Output:

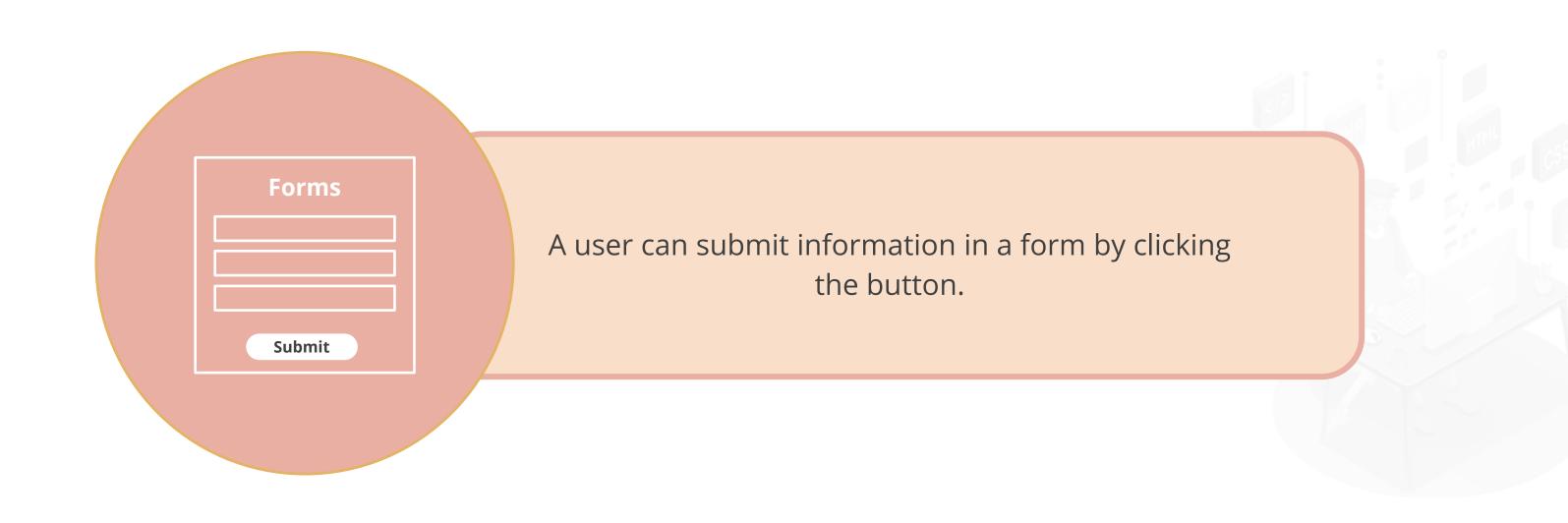


The textarea element

A text area can hold 🕏 an unlimited number

Button Tag

The button tag is used to create a button within a clickable form.

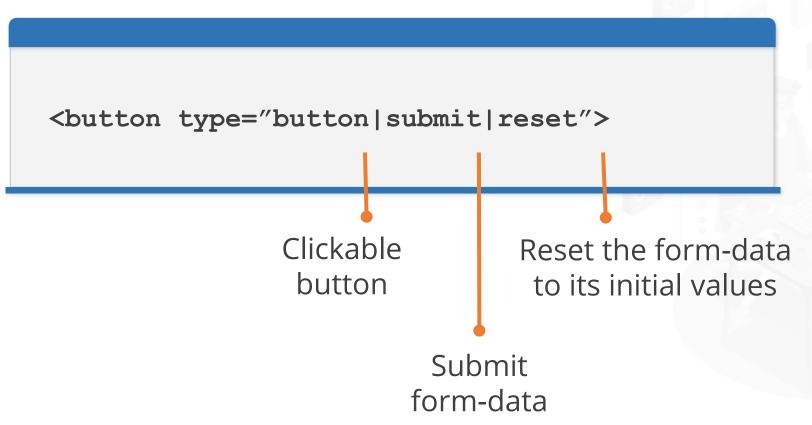


Button Tag

The **<button>** tag is used for control.



Syntax:



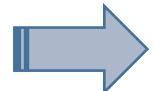
Button Tag: Example

```
<!DOCTYPE html>
<html>
<body>
<h2>Buttons</h2>
<form>
<label for="fname">First Name:</label><br>
<input type="text" id="fname" name="fname"><br>
<label for="lname">Last Name:</label><br>
<input type="text" id="lname"</pre>
name="lname"><br><br><br>
<button type="submit"</pre>
value="Submit">Submit</button>
<button type="reset"</pre>
value="Reset">Reset</button>
</form>
</body>
</html>
```

Output

Buttons

First Name:



Last Name:	

Submit Reset

Iframes

An iframe allows multiple HTML documents to be displayed independently.

Each window shows a separate HTML page or web page. The syntax is as follows:



iframe src="url"
title="description"></iframe>

Iframes: Example

```
<!DOCTYPE html>
<html>
<body>
<h2>Iframes </h2>
<iframe src="" height="200" width="300"
title="Iframes">
</iframe>
</body>
</html>
```







Key Takeaways

- Input components are contained within the **<form>** element.
- The POST method is used to communicate data to a server.
- The GET method is used to obtain data from a given resource.
- Input text refers to the text that the user has entered in the text field.
- The select tag is used for the selected option that needs to be selected.
- The **<textarea>** tag defines multi-line text input control.



Thank You