

3.3 HTML Forms



jungle voting booth - answered by John Rafael Uchi

- **Forms** are used to collect some data from the site visitor.
- There are different types of form controls that you can use to collect data using HTML form.

name and id




- In HTML, both the `name` and `id` attributes are used to identify elements.
- They do serve different purposes, however, as discussed below:

<code>name</code>	<code>id</code>
Associated with a form element for form submission and can be shared among multiple elements.	Uniquely identifies an HTML element within the document.
Can be repeated within a form but must be unique across different forms.	Must be unique throughout the entire HTML document.
Used to create name-value pairs for each input field when the form is submitted	Used to select specific elements.

Form elements

Tag	Type (<code>type="?"</code>)	Description	Attributes	Sample code	Preview
-----	-----------------------------------	-------------	------------	-------------	---------

<code><form></code>		<ul style="list-style-type: none"> Used to create an interactive HTML container that allows users to input and submit data to a web server. 		<pre> <form> Form items go here! </form> </pre>	
<code><label></code>		<ul style="list-style-type: none"> Used to associate a label with a form element 	<ul style="list-style-type: none"> <code>for</code> - used to associate the label with a specific form element by referencing the form element's ID 		
<code><input></code>	<div>text</div>	<ul style="list-style-type: none"> Used for items that require only one line of user input, such as search boxes or names. 	<ul style="list-style-type: none"> <code>value</code> - allows setting of an initial value for the input field, which will be displayed when the page loads. 	<pre> <form> <label for="first_name">First name: </label> <input type="text" id="first_name" name="first_name" placeholder="ex. Juan" /> </form> </pre>	<div>First name: <input type="text" value="ex. Juan"/></div>
	<div>password</div>	<ul style="list-style-type: none"> Used to create a password input field, where the entered text is masked for 	<ul style="list-style-type: none"> <code>placeholder</code> - provides a short hint or example text that guides users on the expected input before 	<pre> <form> <label for="password">Password: </label> <input type="password" id="password" name="password" /> </form> </pre>	<div>Password: <input type="password" value="....."/></div>

	security purposes.	they start typing.		
number	<ul style="list-style-type: none"> Used to create a numeric input field in a form, restricting user input to numbers. 	<ul style="list-style-type: none"> <code>disabled</code> - disables user interaction with the input field, preventing users from editing or selecting its content <code>size</code> - specifies the visible width, in characters, of an input field <code>maxlength</code> - specifies the maximum number of characters allowed in an input field <code>min</code> - specifies the minimum acceptable value that users can input or select <code>max</code> - specifies the maximum acceptable value that users can 	<pre> <form> <label for="order_amount">Order amount: </label> <input type="number" id="order_amount" name="order_amount" value="0" /> </form> </pre>	
email	<ul style="list-style-type: none"> Used to create an input field in a form specifically designed for capturing email addresses, which can trigger built-in validation for correct email format. 		<pre> <form> <label for="email_address">Email address: </label> <input type="email" id="email_address" name="email_address" placeholder="ex. juan_cruz@gmail.com" /> </form> </pre>	
range	<ul style="list-style-type: none"> Used to create a slider input field in a form, allowing users to select a 		<pre> <form> <label for="profile_pic">Notification sound: </label> <input type="range" min="0" max="100" </pre>	

	<p>value within a specified range by dragging a slider thumb.</p>	<p>input or select</p> <ul style="list-style-type: none"> <code>required</code> - enforces that the user must provide input for the field before 	<pre> step="2" value="50" id="profile_pic" name="profile_pic" /> </form> </pre>	
<p>date</p>	<ul style="list-style-type: none"> Used to create a date input field in a form, allowing users to select a date from a date picker or manually input a date in a specific format. 	<ul style="list-style-type: none"> <code>value</code> - setting the form shows an initial value for the input field, which will be displayed when the page loads. <code>required</code> - enforces that the user must provide input for the field before submitting the form 	<pre> <form> <label for="birthdate">Birthdate: </label> <input type="date" id="birthdate" name="birthdate" /> </form> </pre>	<p>Birthdate: <input type="text" value="dd/mm/yyyy"/></p>
<p>file</p>	<ul style="list-style-type: none"> Used to create a file input field in a form, enabling users to browse and select files from their local device for uploading. 	<ul style="list-style-type: none"> <code>required</code> - enforces that the user must provide input for the field before submitting the form 	<pre> <form> <label for="profile_pic">Profile picture: </label> <input type="file" id="profile_pic" name="profile_pic" /> </form> </pre>	<p>Profile picture: <input type="button" value="Choose File"/> No file chosen</p>

checkbox	<ul style="list-style-type: none"> Used to create a checkbox input field in a form, allowing users to select one or multiple options from a set of choices. 	<ul style="list-style-type: none"> checked - sets the form element to be pre-selected or checked by default when the page loads. 	<pre> <form> <input type="checkbox" name="black" value="black" /> Black <input type="checkbox" name="red" value="red" /> Red <input type="checkbox" name="pink" value="pink" /> Pink </form> </pre>	<input checked="" type="checkbox"/> Black <input type="checkbox"/> Red <input type="checkbox"/> Pink
radio	<ul style="list-style-type: none"> Used to create a radio button input field in a form, allowing users to select only one option from a set of mutually exclusive choices. 		<pre> <form> <input type="radio" name="color" value="black" checked /> Black <input type="radio" name="color" value="red" /> Red <input type="radio" name="color" value="pink" /> Pink </form> </pre>	<input checked="" type="radio"/> Black <input type="radio"/> Red <input type="radio"/> Pink
submit	<ul style="list-style-type: none"> Used to create a submit button in a form, allowing users to submit the form data to a web server for processing. 	<ul style="list-style-type: none"> value - defines the text displayed on the button. 	<pre> <form> <label for="first_name">First name: </label> <input type="text" id="first_name" name="first_name" placeholder="ex. Juan" />
 <label for="last_name">Last name: </label> <input </pre>	<div> First name: <input type="text"/> ex. Juan Last name: <input type="text"/> ex. de la Cruz <input type="submit" value="Submit"/> </div>

			<pre>type="text" id="last_name" name="last_name" placeholder="ex. de la Cruz" />
 <input type="submit" /> </form></pre>	
	reset	<ul style="list-style-type: none">Used to create a reset button in a form, allowing users to clear or reset the form's input fields back to their default or initial values.	<pre><form> <label for="first_name">First name: </label> <input type="text" id="first_name" name="first_name" placeholder="ex. Juan" />
 <label for="last_name">Last name: </label> <input type="text" id="last_name" name="last_name" placeholder="ex. de la Cruz" />
 <input type="reset" /> </form></pre>	<div>First name: <input type="text" value="ex. Juan"/></div> <div>Last name: <input type="text" value="ex. de la Cruz"/></div> <div><input type="button" value="Reset"/></div>
<select>		<ul style="list-style-type: none">Used to create a dropdown list or a list box in a form, providing users with a set of	<pre><form> <select name="dropdown"> <option disabled selected>Select one</option> <option value="black">Black</option> <option value="red">Red</option></pre>	<div>Select one ▼</div> <div>Select one</div> <div>Black</div> <div>Red</div> <div>Pink</div>

		options to choose from.		<div><option</div> <div>value="pink">Pink</option></div> <div></select></div> <div></form></div>	
<div><option></div>		<ul style="list-style-type: none"> Used to define an individual option within a <div><select></div> element, presenting a selectable choice for users in a dropdown list. 	<ul style="list-style-type: none"> <div>selected</div> - indicates that the option is pre-selected or the default choice when the dropdown list is initially displayed <div>disabled</div> - prevents the option from being selected or interacted with, making it unavailable for selection in the dropdown list. 		
<div><textarea></div>		<ul style="list-style-type: none"> Used to create a multiline text input field in a form, allowing users to enter and edit longer blocks of text. 	<ul style="list-style-type: none"> <div>value</div> - allows setting of an initial value for the input field, which will be displayed when the page loads. <div>placeholder</div> - provides a short hint or example text that guides 	<div><form></div> <div><label</div> <div>for="description">Description:</div> <div></label></div> <div><textarea</div> <div>id="description"</div> <div>rows="2"</div> <div>cols="20"</div> <div>name="description"</div> <div>placeholder="Write a paragraph describing yourself"</div> <div>></textarea></div> <div></form></div>	<div> <div>Description:</div> <div>Write a paragraph describing yourself</div> </div>

			<p>users on the expected input before they start typing.</p> <ul style="list-style-type: none"> • <code>disabled</code> - disables user interaction with the input field, preventing users from editing or selecting its content • <code>rows</code> - sets the visible height of the multiline text input field by specifying the number of visible rows. • <code>cols</code> - sets the visible width of the multiline text input field by specifying the number of visible columns. 	
--	--	--	---	--

Guidelines to creating forms

- Forms are essential in web development because they enable user interaction and data input, allowing websites to collect valuable information from users.
- They facilitate various user interactions, such as submitting login credentials, signing up for services, and submitting feedback or inquiries
- As such, it is important that forms are carefully designed with the following key guidelines in mind:

- **Use proper form structure.** Enclose form elements within the `<form>` tag, providing a coherent container for user input.
 - **Label your form elements.** Use `<label>` tags to associate descriptive labels with each input field for better accessibility and user guidance.
 - **Select appropriate input types:** Choose suitable `<input>` types (`text`, `email`, `number`, etc.) based on the data you want users to input.
 - **Implement validation:** Apply validation (`size`, `min`, `max`, etc.) to ensure data submitted is accurate, valid, and secure.
 - **Include default values:** Use the `value` attribute to set initial/default values for input fields.
 - **Utilize placeholders:** Add helpful `placeholder` text to give users hints about the expected format or content of input fields.
 - **Include clear instructions:** Provide concise and clear instructions near the form to guide users effectively.
-

Additional Material

- [References](#)
 - [W3Schools](#)