

What is HTML Form?

HTML Forms are required to collect different kinds of user inputs, such as contact details like **name, email address, phone numbers, or details like credit card information, etc.**

The <form> tag is used to create an HTML form.

```
1 <form>
2   <label>Username: <input type="text"></label>
3   <label>Password: <input type="password"></label>
4   <input type="submit" value="Submit">
5 </form>
```

Input Element

It allows you to specify various types of user input fields, depending on the type attribute. An input element can be of type **text field, password field, checkbox, radio button, submit button, reset button, file select box**

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">`

Tip: The default value of the **type** attribute is "text".

Definition and Usage of **name** in input element:

The **name** attribute specifies the name of an **<input>** element.

The **name** attribute is used to **reference elements** in a JavaScript, or to **reference form data after a form is submitted**.

Note: Only form elements with a **name** attribute will have their values passed when submitting a form.

Definition and Usage of **value** in input element:

The **value** attribute specifies the value of an **<input>** element.

The **value** attribute is used differently for different input types:

- For "button", "reset", and "submit" - it defines the text on the button
- For "text", "password", and "hidden" - it defines the initial (default) value of the input field
- For "checkbox", "radio", "image" - it defines the value associated with the input (this is also the value that is sent on submit)

Note: The **value** attribute cannot be used with **<input type="file">**.