



"Forms elements and its
attribute"

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Values for input types

1. Text Input (`type="text"`): Used for single-line text input.
 2. Number Input (`type="number"`): Accepts only numerical input.
 3. Radio Button (`type="radio"`): Allows the user to select one option from a set.
 4. Checkbox (`type="checkbox"`): Allows the user to select one or more options.
 5. Password Input (`type="password"`): Hides the input text, typically used for passwords.
 6. Submit Button (`type="submit"`): Submits the form data.
 7. Reset Button (`type="reset"`): Resets the form fields to their default values.
- 

8. Email Input (`type="email"`): Accepts email addresses and provides validation.
9. Date Input (`type="date"`): Allows the user to select a date.
10. Time Input (`type="time"`): Allows the user to select a time.
11. Month Input (`type="month"`): Allows the user to select a month and year.
12. Week Input (`type="week"`): Allows the user to select a week and year.
13. Telephone Input (`type="tel"`): Used for telephone numbers, with input validation.
14. Search Input (`type="search"`): Provides a single-line text input for search fields.
15. URL Input (`type="url"`): Accepts a URL with input validation.
16. Image Button (`type="image"`): Uses an image as the submit button.

17. Button (**type="button"**): A button with no default behavior; can be used with JavaScript.

18. Color Input (**type="color"**): Allows the user to select a color.

19. Range Input (**type="range"**): Allows the user to select a value within a specified range.

20. File Input (**type="file"**): Allows the user to select a file to upload.

21. Hidden Input (**type="hidden"**): Invisible to the user, used to store data to be submitted.



<form> Tag Attributes

1. action Attribute

Purpose: Specifies where to send form data after submission.

Example: `action="/submit"` sends data to `/submit`.

Function: Directs the form's submission URL.

2. action="#"

Purpose: Acts as a placeholder when no server submission is needed.

Function: Prevents page navigation on form submission.

3. id Attribute

Definition: A unique identifier for an HTML element.

Usage: Links an input field with its label.

4. **for** Attribute

Definition: Associates a `<label>` with an input field.

Usage: The `for` value matches the input's `id` for proper labeling

Attributes used in the code:

1. **type**: Specifies the type of input (text, number, password, etc.).
2. **id**: Unique identifier for the input, useful for linking labels.
3. **name**: The name of the input, used to identify form data when it's submitted.
4. **value**: Predefines a value for the input or buttons (e.g., default text or button labels).
5. **min** and **max**: Specifies the minimum and maximum values for inputs like **number**, **range**, **date**, etc.
6. **action**: Specifies the URL where form data is sent when the form is submitted.
7. **for**: Links a label to an input by matching the **id** of the input.

-
8. **placeholder**: Shows temporary text inside input fields (not used in this example but useful for hints).
 9. **value="secretData"**: Predefined data for hidden inputs.

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HTML Code Example:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Input Types Practice</title>
```

```
</head>
```

```
<body>
```

```
<h2>Complete Form Example</h2>
```

```
<form action="file location">
```

```
<!-- Text input -->
```

```
<label for="name">Name:</label>
```

```
<input type="text" id="name"
```

```
name="name"><br><br>
```

```
<!-- Number input -->
```

```
<label for="age">Age:</label>
```

```
<input type="number" id="age"
```

```
name="age"><br><br>
```



<!-- Radio buttons -->

<label>Gender:</label>

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

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

<input type="radio" id="female"
name="gender" value="female"> <label
for="female">Female</label>

<!-- Checkbox -->

<label for="subscribe">Subscribe to
Newsletter:</label>

<input type="checkbox" id="subscribe"
name="subscribe">

```
<!-- Password input -->
```

```
<label for="password">Password:</label>
```

```
<input type="password" id="password"  
name="password"><br><br>
```

```
<!-- Email input -->
```

```
<label for="email">Email:</label>
```

```
<input type="email" id="email"  
name="email"><br><br>
```

```
<!-- Date input -->
```

```
<label for="dob">Date of Birth:</label>
```

```
<input type="date" id="dob"  
name="dob"><br><br>
```



```
<!-- Time input -->
```

```
<label for="appointment">Appointment
```

```
Time:</label>
```

```
<input type="time" id="appointment"  
name="appointment"><br><br>
```

```
<!-- Month input -->
```

```
<label for="birth-month">Birth
```

```
Month:</label>
```

```
<input type="month" id="birth-month"  
name="birth-month"><br><br>
```

```
<!-- Week input -->
```

```
<label for="week">Preferred Week:</label>
```

```
<input type="week" id="week"  
name="week"><br><br>
```

```
<!-- Telephone input -->
```

```
<label for="phone">Phone:</label>
```

```
<input type="tel" id="phone"  
name="phone"><br><br>
```



```
<!-- Search input -->
```

```
<label for="search">Search:</label>
```

```
<input type="search" id="search"  
name="search"><br><br>
```

```
<!-- URL input -->
```

```
<label for="website">Website:</label>
```

```
<input type="url" id="website"  
name="website"><br><br>
```

```
<!-- Range input -->
```

```
<label for="range">Select a value  
(1-100):</label>
```

```
<input type="range" id="range"  
name="range" min="1" max="100"><br><br>
```

```
<!-- Color input -->
```

```
<label for="favcolor">Favorite
```

```
Color:</label>
```

```
<input type="color" id="favcolor"  
name="favcolor"><br><br>
```

```
<!-- File input -->
```

```
<label for="resume">Upload
```

```
Resume:</label>
```

```
<input type="file" id="resume"  
name="resume"><br><br>
```



```
<!-- Hidden input -->
```

```
<input type="hidden" name="userid"  
value="12345">
```

```
<!-- Image input -->
```

```
<input type="image"  
src="submit-button.png" alt="Submit  
Button"><br><br>
```

```
<!-- Button -->
```

```
<button type="button"  
onclick="alert('Button clicked!')">Click  
Me</button><br><br>
```

```
<!-- Submit and Reset Buttons -->
```

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

```
<input type="reset" value="Reset">
```

`</form>`

`</body>`

`</html>`

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output

Complete Form Example

Name:

Age:

Gender: ☐ Male ☐ Female

Subscribe to Newsletter: ☐

Password:

Email:

Date of Birth:

Appointment Time:

Birth Month:

Preferred Week:

Phone:

Search:

Website:

Select a value (1-100):

Favorite Color:

Upload Resume: No file chosen

Select and Option Tag

The <select> tag in HTML is used to create a drop-down list, allowing users to select one (or more) options from a list.

Key Points:

- <select>: Creates a drop-down list.
 - <option>: Defines individual options within the drop-down.
 - name: Identifies the selected value when the form is submitted.
- 

HTML Code Example:

<!DOCTYPE html>

<html>

<head>

<title>Select Tag Example</title>

</head>

<body>

<h2>Select Your Favorite Fruit</h2>

<form action="/submit">

<label for="fruits">Choose a fruit:</label>

<select id="fruits" name="fruit">

<option value="apple">Apple</option>

`<option value="banana">Banana</option>`

`<option value="orange">Orange</option>`

`<option value="grape">Grape</option>`

`</select>`

`<br><br>`

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

`</form>`

`</body>`

`</html>`



Select Your Favorite Fruit

Choose a fruit:

Apple ▼

Submit

Apple

Banana

Orange

Grape

Textarea

The `<textarea>` tag in HTML is used to create a multi-line text input field where users can enter larger amounts of text.

Key Points:

- `<textarea>`: Creates a multi-line text input area.
- `rows` and `cols`: Define the visible size of the textarea (number of rows and columns).
- `placeholder`: Displays a hint inside the textarea when it's empty.

HTML Code Example:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>textarea Example</title>
```

```
</head>
```

```
<body>
```

```
<h2>enter your comments</h2>
```

```
<form action="/submit">
```

```
<label for="comments">Comments:</label>
```

```
<br>
```

```
    <textarea id="comments" name="comments"  
    rows="4" cols="50" placeholder="Write your  
    comments here..."></textarea>
```

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

</form>

</body>

</html>

Enter Your Comments

Comments:

Write your comments here...

Submit

Button Example

The `<button>` tag in HTML is used to create a clickable button, which can be used to submit forms, reset forms,

HTML Code Example:

```
<!DOCTYPE html>

<html>

<head>

    <title>Reset Button Example</title>

</head>

<body>

    <h2>Form with Reset Button</h2>

    <form action="/submit">

        <label for="name">Name:</label><br>

        <input type="text" id="name" name="name">
```

<label for="email">Email:</label>

<input type="email" id="email"
name="email">

<!-- Submit Button -->

<button type="submit">Submit
Form</button>

<!-- Reset Button -->

<button type="reset">Reset Form</button>

</form>

</body>

</html>



Form with Reset Button

Name:

Email:

Submit Form

Reset Form

Datalist example

The `<datalist>` tag in HTML is used to provide an autocomplete feature for an input field. It allows users to select from a pre-defined list of options while still being able to enter their own text if necessary.

`<datalist>`: Defines a list of pre-defined options for an `<input>` field.

`<option>`: Represents individual choices in the autocomplete list.

`list` attribute on `<input>`: Links the input field with the `<datalist>` to enable autocomplete.



HTML Code Example:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Datalist Example</title>
```

```
</head>
```

```
<body>
```

```
<h2>Enter or Select a Programming  
Language</h2>
```

```
<form action="/submit">
```

```
  <label for="language">Choose a  
language:</label>
```

```
<input list="languages" id="language"
name="language" placeholder="Type or select">
```

```
<datalist id="languages">
```

```
<option value="JavaScript">
```

```
<option value="Python">
```

```
<option value="Java">
```

```
<option value="C++">
```

```
<option value="Ruby">
```

```
</datalist>
```

```
<br><br>
```

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

```
</form>
```



`</body>`

`</html>`

Enter or Select a Programming Language

Choose a language:

Submit

JavaScript

Python

Java

C++

Ruby

<fieldset> and <legend> Tags:

- **<fieldset>**: The **<fieldset>** tag is used to group related elements in a form, creating a visual boundary around them. It helps organize complex forms and makes them more readable and accessible.
- **<legend>**: The **<legend>** tag is used to provide a title or caption for the **<fieldset>**, giving users context about the group of fields inside it.

HTML Code Example:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Fieldset and Legend Example</title>
```

```
</head>
```

```
<body>
```

```
<h2>Personal Information Form</h2>
```

```
<form action="/submit">
```

```
  <!-- Fieldset with Legend -->
```

```
    <fieldset>
```

```
      <legend>Personal Details</legend>
```

```
      <label for="name">Name:</label>
```

```
<input type="text" id="name"
name="name"><br><br>

<label for="email">Email:</label>

<input type="email" id="email"
name="email"><br><br>

<label for="phone">Phone:</label>

<input type="tel" id="phone"
name="phone">

</fieldset>

<br><br>

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

</form>
```

</body>

</html>

Personal Information Form

Personal Details

Name:

Email:

Phone:

Submit

Common Input Attributes:

1. **disabled**: Disables the input, preventing user interaction.
 2. **max**: Specifies the maximum value for numeric or date inputs.
 3. **maxlength**: Limits the number of characters allowed in a text input.
 4. **min**: Specifies the minimum value for numeric or date inputs.
 5. **pattern**: Specifies a regular expression the input's value must match.
 6. **readonly**: Makes the input field non-editable but still sends its value with the form.
 7. **required**: Ensures the field must be filled out before submitting the form.
 8. **value**: Sets the default value of the input.
- 

9. **size**: Specifies the visible width of the input in characters.
10. **placeholder**: Provides a short hint that appears in the input field before the user types.

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HTML Code Example:

<!DOCTYPE html>

<html>

<head>

<title>Input Attributes Example</title>

</head>

<body>

<h2>Form with Various Input Attributes</h2>

<form action="/submit">

```
<!-- Disabled Input -->
```

```
<label for="username">Username  
(disabled): </label>
```

```
<input type="text" id="username"  
name="username" value="JohnDoe"  
disabled><br><br>
```

```
<!-- Max and Min for Number Input -->
```

```
<label for="age">Age (min 18, max  
60): </label>
```

```
<input type="number" id="age" name="age"  
min="18" max="60" required><br><br>
```

```
<!-- Maxlength and Placeholder for Text Input
-->
```

```
<label for="bio">Short Bio (max 100
characters):</label>
```

```
<input type="text" id="bio" name="bio"
maxlength="12" placeholder="Enter your bio
here..." size="50"><br><br>
```

```
<!-- Readonly Input -->
```

```
<label for="readonly-field">Readonly
Field:</label>
```

```
<input type="text" id="readonly-field"
name="readonly-field" value="Cannot change
this" readonly><br><br>
```



<!-- Required Field -->

<label for="password">Password
(required): </label>

<input type="password" id="password"
name="password" required>

<!-- Value and Placeholder -->

<label for="phone">Phone (default value,
with placeholder):</label>

<input type="tel" id="phone" name="phone"
value="+1-" placeholder="Enter your phone
number">

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

</form>

</body>

</html>



Form with Various Input Attributes

Username (disabled):

Age (min 18, max 60):

Short Bio (max 100 characters):

Readonly Field:

Password (required):

Phone (default value, with placeholder):

Pattern attribute

An input field that can contain only three letters (no numbers or special characters)

```
<label for="country_code">Country  
code:</label>
```

```
<input type="text" id="country_code"  
name="country_code" pattern="[A-Za-z]{3}"  
title="Three letter country code"><br><br>  
<input type="submit" value="Submit">
```



The input pattern attribute

The pattern attribute specifies a regular expression that the input element's value is checked against.

Country code:

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Phone Number Submission Form

`<label for="phone">Enter a phone
number:</label>`

`<input type="tel" id="phone" name="phone"
placeholder="123-45-678"
pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}">

`

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

The input placeholder attribute

The placeholder attribute specifies a short hint that describes the expected value of an input field.

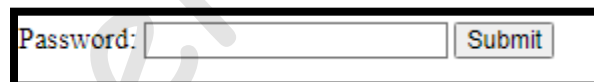
Enter a phone number:

A form with a password field that must contain
8 or more characters

```
<label for="pwd">Password:</label>
```

```
<input type="password" id="pwd" name="pwd"  
pattern=".{8,}" title="Eight or more  
characters">
```

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



The screenshot shows a web form with a label "Password:" followed by a text input field. To the right of the input field is a "Submit" button. The entire form is enclosed in a black rectangular border.

password field

<p>A form with a password field that must contain 8 or more characters that are of at least one number, and one uppercase and lowercase letter:</p>

<form action="/action_page.php">

<label for="pwd">Password:</label>

<input type="password" id="pwd" name="pwd" pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}" title="Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters">

<input type="submit"></form>



The input pattern attribute

A form with a password field that must contain 8 or more characters that are of at least one number, and one uppercase and lowercase letter:

Password:

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