

# HTML Forms

## Definition and Usage

The `<label>` tag defines a label for several elements:

```
<input type="checkbox">  
<input type="color">  
<input type="date">  
<input type="datetime-local">  
<input type="email">  
<input type="file">  
<input type="month">  
<input type="number">  
<input type="password">
```

```
<input type="radio">  
<input type="range">  
<input type="search">  
<input type="tel">  
<input type="text">  
<input type="time">  
<input type="url">  
<input type="week">  
<meter>  
<progress>  
<select>  
<textarea>
```

## Tips and Notes

Tip: The `for` attribute of `<label>` must be equal to the `id` attribute of the related element to bind them together. A label can also be bound to an element by placing the element inside the `<label>` element.

## Proper use of labels with the elements above will benefit:

- Screen reader users (will read out loud the label, when the user is focused on the element)
- Users who have difficulty clicking on very small regions (such as checkboxes) - because when a user clicks the text within the `<label>` element, it toggles the input (this increases the hit area).

`<input type="checkbox">`

## Code

```
<!DOCTYPE html>
<html>
<body>

<h1>Show Checkboxes</h1>

<form action="/action_page.php">
  <input type="checkbox" id="vehicle1"
name="vehicle1" value="Bike">
  <label for="vehicle1"> I have a bike</label><br>
  <input type="submit" value="Submit">
</form>

</body>
</html>
```

## Output

### Show Checkboxes

☐ I have a bike

`<input type="color">`

## Code

```
<!DOCTYPE html>
<html>
<body>
<h1>Show a Color Picker</h1>

<form action="/action_page.php">
  <label for="favcolor">Select your favorite
color:</label>
  <input type="color" id="favcolor"
name="favcolor" value="#ff0000"><br><br>
  <input type="submit">
</form>

<p><b>Note:</b> type="color" is not
supported in Internet Explorer 11 or Safari 9.1
(or earlier).</p>

</body>
</html>
```

## Output

### Show a Color Picker

Select your favorite color:



Submit

**Note:** type="color" is not supported in Internet Explorer 11 or Safari 9.1 (or earlier).

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>Show a Date and Time Control</h1>
```

```
<form action="/action_page.php">
```

```
<label for="birthdaytime">Birthday (date and time):</label>
```

```
<input type="datetime-local" id="birthdaytime" name="birthdaytime">
```

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

```
</form>
```

```
<p><strong>Note:</strong> type="datetime-local" is not supported in Internet Explorer 11 or prior Safari 14.1.</p>
```

```
</body>
```

```
</html>
```

## Show a Date and Time Control

Birthday (date and time):

**Note:** type="datetime-local" is not supported in Internet Explorer 11 or prior Safari 14.1.

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>Show a Color Picker</h1>
```

```
<form action="/action_page.php">
```

```
<label for="favcolor">Select your favorite color:</label>
```

```
<input type="color" id="favcolor" name="favcolor" value="#ff0000"><br><br>
```

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

```
</form>
```

```
<p><b>Note:</b> type="color" is not supported in Internet Explorer 11 or Safari 9.1 (or earlier).</p>
```

```
</body>
```

```
</html>
```

## Show a Color Picker

Select your favorite color:

**Note:** type="color" is not supported in Internet Explorer 11 or Safari 9.1 (or earlier).

```

<!DOCTYPE html>
<html>
<body>

<h1>Show Email Fields</h1>

<h3>Show an email field (allows only one email address):</h3>
<form action="/action_page.php">
  <label for="email">Enter your email:</label>
  <input type="email" id="email" name="email">
  <input type="submit">
</form>

<h3>Show an email field (allows multiple email addresses). Separate each email
address with a comma:</h3>
<form action="/action_page.php">
  <label for="emails">Enter email addresses:</label>
  <input type="email" id="emails" name="emails" multiple>
  <input type="submit">
</form>

</body>
</html>

```

## Show Email Fields

**Show an email field (allows only one email address):**

Enter your email:

**Show an email field (allows multiple email addresses). Separate each email address with a comma:**

Enter email addresses:

```

<!DOCTYPE html>
<html>
<body>

<h1>Show File-select Fields</h1>

<h3>Show a file-select field which allows only one file to be chosen:</h3>
<form action="/action_page.php">
  <label for="myfile">Select a file:</label>
  <input type="file" id="myfile" name="myfile"><br><br>
  <input type="submit">
</form>

<h3>Show a file-select field which allows multiple files:</h3>
<form action="/action_page.php">
  <label for="myfile">Select files:</label>
  <input type="file" id="myfile" name="myfile" multiple><br><br>
  <input type="submit">
</form>

</body>
</html>

```

## Show File-select Fields

**Show a file-select field which allows only one file to be chosen:**

Select a file:  No file chosen

**Show a file-select field which allows multiple files:**

Select files:  No file chosen

```
<!DOCTYPE html>
<html>
<body>

<h1>Display a Month Input Control</h1>

<p>If the browser supports it, a date picker pops up when entering the input
field.</p>

<form action="/action_page.php">
  <label for="bdaymonth">Birthday (month and year):</label>
  <input type="month" id="bdaymonth" name="bdaymonth">
  <input type="submit">
</form>

<p><strong>Note:</strong> type="month" is not supported in Firefox, Safari or
Internet Explorer 11 and earlier versions.</p>

</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>
```

```
<h1>Display a Number Field</h1>
```

```
<form action="/action_page.php">
  <label for="quantity">Quantity (between 1 and 5):</label>
  <input type="number" id="quantity" name="quantity" min="1" max="5">
  <input type="submit">
</form>
```

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

## Display a Month Input Control

If the browser supports it, a date picker pops up when entering the input field.

Birthday (month and year):

**Note:** type="month" is not supported in Firefox, Safari or Internet Explorer 11 and earlier versions.

## Display a Number Field

Quantity (between 1 and 5):

```
<!DOCTYPE html>
<html>
<body>
```

```
<h1>Display a Password Field</h1>
```

```
<form action="/action_page.php">
  <label for="email">Email:</label>
  <input type="email" id="email" name="email"><br><br>
  <label for="pwd">Password:</label>
  <input type="password" id="pwd" name="pwd" minlength="8"><br><br>
  <input type="submit">
</form>
```

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

```
<!DOCTYPE html>
<html>
<body>
```

```
<h1>Display Radio Buttons</h1>
```

```
<form action="/action_page.php">
  <p>Please select your favorite Web language:</p>
  <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="submit" value="Submit">
</form>
```

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

## Display a Password Field

Email:

Password:

Submit

## Display Radio Buttons

Please select your favorite Web language:

☐ HTML

☐ CSS

Submit

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>Display a Search Field</h1>
```

```
<form action="/action_page.php">
```

```
  <label for="gsearch">Search Google:</label>
```

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

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

```
</form>
```

```
</body>
```

```
</html>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>Display a Telephone Input Field</h1>
```

```
<form action="/action_page.php">
```

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

```
  <input type="tel" id="phone" name="phone" placeholder="123-45-678" pattern="
```

```
[0-9]{3}-[0-9]{2}-[0-9]{3}" required><br><br>
```

```
  <small>Format: 123-45-678</small><br><br>
```

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

```
</form>
```

```
</body>
```

```
</html>
```

## Display a Search Field

Search Google:

Submit

## Display a Telephone Input Field

Enter a phone number:

Format: 123-45-678

Submit



```
<!DOCTYPE html>
<html>
<body>
<h1>Show a Time Input Control</h1>
<p>If the browser supports it, a time picker pops up when entering the input
field.</p>
<form action="/action_page.php">
  <label for="appt">Select a time:</label>
  <input type="time" id="appt" name="appt">
  <input type="submit">
</form>
<p><strong>Note:</strong> type="time" is not supported in Internet Explorer 11
or prior Safari 14.1.</p>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>

<h1>Display a URL Input Field</h1>

<form action="/action_page.php">
  <label for="homepage">Add your homepage:</label>
  <input type="url" id="homepage" name="homepage"><br><br>
  <input type="submit">
</form>
</body>
</html>
```

## Show a Time Input Control

If the browser supports it, a time picker pops up when entering the input field.

Select a time:

**Note:** type="time" is not supported in Internet Explorer 11 or prior Safari 14.1.

## Display a URL Input Field

Add your homepage:

```

<!DOCTYPE html>
<html>
<body>
<h1>Display a Week Input Control</h1>
<p>If the browser supports it, a date picker pops up when entering the input field.</p>
<form action="/action_page.php">
  <label for="week">Select a week:</label>
  <input type="week" id="week" name="week">
  <input type="submit">
</form>
<p><strong>Note:</strong> type="week" is not supported in Firefox, Safari or Internet Explorer 11 and earlier versions.</p>
</body>
</html>

```

```

<!DOCTYPE html>
<html>
<body>
<h1>The meter element</h1>
<p>The meter element is used to display a gauge:</p>
<label for="disk_c">Disk usage C:</label>
<meter id="disk_c" value="2" min="0" max="10">2 out of 10</meter><br>
<label for="disk_d">Disk usage D:</label>
<meter id="disk_d" value="0.6">60%</meter>
<p><strong>Note:</strong> The meter tag is not supported in Edge 12 (or earlier).</p>
</body>
</html>

```

## Display a Week Input Control



If the browser supports it, a date picker pops up when entering the input field.

Select a week:

**Note:** type="week" is not supported in Firefox, Safari or Internet Explorer 11 and earlier versions.

## The meter element

The meter element is used to display a gauge:

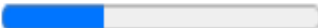
Disk usage C:   
 Disk usage D: 

**Note:** The meter tag is not supported in Edge 12 (or earlier).

```
<!DOCTYPE html>
<html>
<body>
<h1>The progress element</h1>
<label for="file">Downloading progress:</label>
<progress id="file" value="32" max="100"> 32% </progress>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>
<h1>The select element</h1>
<p>The select element is used to create a drop-down list.</p>
<form action="/action_page.php">
  <label for="cars">Choose a car:</label>
  <select name="cars" id="cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
    <option value="opel">Opel</option>
  </select>
  <br><br>
  <input type="submit" value="Submit">
</form>
<p>Click the "Submit" button and the form-data will be sent to a page on the
server called "action_page.php".</p>
</body>
</html>
```

## The progress element

Downloading progress: 

## The select element

The select element is used to create a drop-down list.

Choose a car:

Click the "Submit" button and the form-data will be sent to a page on the server called "action\_page.php".

```
<!DOCTYPE html>
<html>
<body>
<h1>The textarea element</h1>
<form action="/action_page.php">
<label for="w3review">Review of W3Schools:</label>
<textarea id="w3review" name="w3review" rows="4" cols="50">
  At w3schools.com you will learn how to make a website. They offer free
  tutorials in all web development technologies.
</textarea>
<br><br>
<input type="submit" value="Submit">
</form>
<p>Click the "Submit" button and the form-data will be sent to a page on the
server called "action_page.php".</p>
</body>
</html>
```

## The textarea element

At w3schools.com you will learn how to make a website. They offer free tutorials in all web development technologies.

Review of W3Schools:

Click the "Submit" button and the form-data will be sent to a page on the server called "action\_page.php".