FORM MADE

The <form> Element

The HTML <form> element is used to create an HTML form for user input:

```
<form>
.
  form elements
.
</form>
```

The <input> Element

The HTML <input> element is the most used form element.

An <input> element can be displayed in many ways, depending on the type attribute.

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="email">
•<input type="file">
•<input type="hidden">
•<input type="image">
•<input type="image">
•<input type="month">
•<input type="number">
•<input type="number">
•<input type="radio">
•<
```

```
•<input type="search">
•<input type="submit">
•<input type="tel">
•<input type="text">
•<input type="time">
•<input type="url">
•<input type="week">
```

Input Type Text

<input type="text"> defines a single-line text input field:

Example

```
<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" name="lname">
    </form>
```

Try it Yourself »

This is how the HTML code above will be displayed in a browser:

First name:

Last name:

Input Type Password

<input type="password"> defines a password field:

Example

```
<form>
  <label for="username">Username:</label><br>
```

```
<input type="text" id="username" name="username"><br>
<label for="pwd">Password:</label><br>
<input type="password" id="pwd" name="pwd">
</form>
```

Try it Yourself »

This is how the HTML code above will be displayed in a browser:

Username:

Password:

The characters in a password field are masked (shown as asterisks or circles).

Input Type Submit

<input type="submit"> defines a button for submitting form data to a formhandler.

The form-handler is typically a server page with a script for processing input data.

The form-handler is specified in the form's action attribute:

Example

```
<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Doe"><br>
  <input type="submit" value="Submit">
  </form>
```

Try it Yourself »



If you omit the submit button's value attribute, the button will get a default text:

Example

```
<form action="/action_page.php">
    <label for="fname">First name:</label><br>
    <input type="text" id="fname" name="fname" value="John"><br>
    <label for="lname">Last name:</label><br>
    <input type="text" id="lname" name="lname" value="Doe"><br><dry>
    <input type="submit">
    </form>
```

Try it Yourself »

Input Type Reset

<input type="reset"> defines a reset button that will reset all form values to their
default values:

Example

```
<form action="/action_page.php">
    <label for="fname">First name:</label><br>
    <input type="text" id="fname" name="fname" value="John"><br>
    <label for="lname">Last name:</label><br>
    <input type="text" id="lname" name="lname" value="Doe"><br><br><input type="submit" value="Submit">
    <input type="reset" value="Reset">
    </form>
```

Try it Yourself »

First name:	
Last name:	
Submit	Reset

If you change the input values and then click the "Reset" button, the form-data will be reset to the default values.

Input Type Radio

<input type="radio"> defines a radio button.

Radio buttons let a user select ONLY ONE of a limited number of choices:

Example

Try it Yourself »

Input Type Checkbox

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

Checkboxes let a user select ZERO or MORE options of a limited number of choices.

Example

Try it Yourself »

This is how the HTML code above will be displayed in a browser:

Input Type Button

<input type="button"> defines a button:

Example

```
| <input type="button" onclick="alert('Hello World!')" value="Click
| Me!">
```

Try it Yourself »

This is how the HTML code above will be displayed in a browser:

Input Type Color

The <input type="color"> is used for input fields that should contain a color.

Depending on browser support, a color picker can show up in the input field.

Example

```
<form>
    <label for="favcolor">Select your favorite color:</label>
    <input type="color" id="favcolor" name="favcolor">
    </form>
```

Try it Yourself »

Input Type Date

The <input type="date"> is used for input fields that should contain a date.

Depending on browser support, a date picker can show up in the input field.

Example

```
<form>
  <label for="birthday">Birthday:</label>
  <input type="date" id="birthday" name="birthday">
  </form>
```

Try it Yourself »

You can also use the min and max attributes to add restrictions to dates:

Example

Try it Yourself »

Input Type Datetime-local

The <input type="datetime-local"> specifies a date and time input field, with no time zone.

Depending on browser support, a date picker can show up in the input field.

Example

```
<form>
    <label for="birthdaytime">Birthday (date and time):</label>
    <input type="datetime-local" id="birthdaytime" name="birthdaytime">
    </form>
```

Try it Yourself »

Input Type Email

The <input type="email"> is used for input fields that should contain an e-mail address.

Depending on browser support, the e-mail address can be automatically validated when submitted.

Some smartphones recognize the email type, and add ".com" to the keyboard to match email input.

Example

```
<form>
  <label for="email">Enter your email:</label>
  <input type="email" id="email" name="email">
  </form>
```

Try it Yourself »

Input Type Image

The <input type="image"> defines an image as a submit button.

The path to the image is specified in the src attribute.

Example

```
<form>
<input type="image" src="img_submit.gif" alt="Submit" width="48" heigh
t="48">
</form>
```

Try it Yourself »

Input Type File

The <input type="file"> defines a file-select field and a "Browse" button for file uploads.

Example

```
<form>
    <label for="myfile">Select a file:</label>
    <input type="file" id="myfile" name="myfile">
    </form>
```

Try it Yourself »

Input Type Hidden

The <input type="hidden"> defines a hidden input field (not visible to a user).

A hidden field lets web developers include data that cannot be seen or modified by users when a form is submitted.

A hidden field often stores what database record that needs to be updated when the form is submitted.

Note: While the value is not displayed to the user in the page's content, it is visible (and can be edited) using any browser's developer tools or "View Source" functionality. Do not use hidden inputs as a form of security!

Example

```
<form>
    <label for="fname">First name:</label>
    <input type="text" id="fname" name="fname"><br>
    <input type="hidden" id="custId" name="custId" value="3487">
        <input type="submit" value="Submit">
        </form>
```

Try it Yourself »

Input Type Month

The <input type="month"> allows the user to select a month and year.

Depending on browser support, a date picker can show up in the input field.

Example

```
<form>
    <label for="bdaymonth">Birthday (month and year):</label>
    <input type="month" id="bdaymonth" name="bdaymonth">
    </form>
```

Try it Yourself »

Input Type Number

The <input type="number"> defines a numeric input field.

You can also set restrictions on what numbers are accepted.

The following example displays a numeric input field, where you can enter a value from 1 to 5:

Example

```
<form>
  <label for="quantity">Quantity (between 1 and 5):</label>
```

```
<input type="number" id="quantity" name="quantity" min="1" max="5">
</form>
```

Try it Yourself »

Input Restrictions

Here is a list of some common input restrictions:

Attribute Description Specifies that an input field should be pre-selected when the page loads (for checked type="checkbox" or type="radio") disabled Specifies that an input field should be disabled Specifies the maximum value for an input field max maxlength Specifies the maximum number of character for an input field Specifies the minimum value for an input field min pattern Specifies a regular expression to check the input value against Specifies that an input field is read only (cannot be changed) readonly required Specifies that an input field is required (must be filled out) size Specifies the width (in characters) of an input field Specifies the legal number intervals for an input field step Specifies the default value for an input field value

You will learn more about input restrictions in the next chapter.

The following example displays a numeric input field, where you can enter a value from 0 to 100, in steps of 10. The default value is 30:

Example

```
<form>
    <label for="quantity">Quantity:</label>
    <input type="number" id="quantity" name="quantity" min="0" max="100"
    step="10" value="30">
    </form>
```

Try it Yourself »

Input Type Range

The <input type="range"> defines a control for entering a number whose exact value is not important (like a slider control). Default range is 0 to 100. However, you can set restrictions on what numbers are accepted with the min, max, and step attributes:

Example

```
<form>
  <label for="vol">Volume (between 0 and 50):</label>
  <input type="range" id="vol" name="vol" min="0" max="50">
  </form>
```

Try it Yourself »

Input Type Search

The <input type="search"> is used for search fields (a search field behaves like a regular text field).

Example

```
<form>
    <label for="gsearch">Search Google:</label>
    <input type="search" id="gsearch" name="gsearch">
    </form>
```

Try it Yourself »

Input Type Tel

The <input type="tel"> is used for input fields that should contain a telephone number.

Example

```
<form>
    <label for="phone">Enter your phone number:</label>
    <input type="tel" id="phone" name="phone" pattern="[0-9]{3}-[0-9]
{2}-[0-9]{3}">
    </form>
```

Try it Yourself »

Input Type Time

The <input type="time"> allows the user to select a time (no time zone).

Depending on browser support, a time picker can show up in the input field.

Example

```
<form>
    <label for="appt">Select a time:</label>
    <input type="time" id="appt" name="appt">
    </form>
```

Try it Yourself »

Input Type Url

The <input type="url"> is used for input fields that should contain a URL address.

Depending on browser support, the url field can be automatically validated when submitted.

Some smartphones recognize the url type, and adds ".com" to the keyboard to match url input.

Example

```
<form>
    <label for="homepage">Add your homepage:</label>
    <input type="url" id="homepage" name="homepage">
    </form>
```

Try it Yourself »

Input Type Week

The <input type="week"> allows the user to select a week and year.

Depending on browser support, a date picker can show up in the input field.

Example

```
<form>
    <label for="week">Select a week:</label>
    <input type="week" id="week" name="week">
    </form>
```

Try it Yourself »

NOTE:- AS I KNOW THAT ALWAYS USE "Id" IN <input> tag.

HTML Form Attributes

The action attribute defines the action to be performed when the form is submitted.

Usually, the form data is sent to a file on the server when the user clicks on the submit button.

In the example below, the form data is sent to a file called "action_page.php". This file contains a server-side script that handles the form data:

form action="_	' ">

</form>

The Target Attribute

The target attribute specifies where to display the response that is received after submitting the form.

The target attribute can have one of the following values:

Value	Description
_blank	The response is displayed in a new window or tab
_self	The response is displayed in the current window
_parent	The response is displayed in the parent frame
_top	The response is displayed in the full body of the window
framename	The response is displayed in a named iframe

Example

Here, the submitted result will open in a new browser tab:

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

HTML Form Elements

This chapter describes all the different HTML form elements.

The HTML <form> Elements

The HTML <form> element can contain one or more of the following form elements:

- •<input>
- •<label>
- •<select>
- •<textarea>
- •<button>
- •<fieldset>
- •<legend>
- •<datalist>
- •<output>
- •<option>
- •<optgroup>

The <select> Element

The <select> element defines a drop-down list:

```
<form action="/action_page.php">
<label for="cars">Choose a car:</label>
<select id="cars" name="cars">
<option value="volvo">Volvo</option>
<option value="saab">Saab</option>
<option value="fiat" selected>Fiat</option>
<option value="audi">Audi</option>
</select>
<input type="submit">
</form>
```

Allow Multiple Selections:

Use the multiple attribute to allow the user to select more than one value:

Example

```
<option value="audi">Audi</option>
</select>
```



The <textarea> Element

The <textarea> element defines a multi-line input field (a text area):

Example

```
<textarea name="message" rows="10" cols="30">
The cat was playing in the garden.
</textarea>
```

Try it Yourself »

The rows attribute specifies the visible number of lines in a text area.

The cols attribute specifies the visible width of a text area.

This is how the HTML code above will be displayed in a browser:

You can also define the size of the text area by using CSS:

Example

```
<textarea name="message" style="width:200px; height:600px;">
The cat was playing in the garden.
</textarea>
```

Try it Yourself »

The <button> Element

The <button> element defines a clickable button:

Example

```
<button type="button" onclick="alert('Hello World!')">Click Me!
</button>
```

Try it Yourself »

This is how the HTML code above will be displayed in a browser:

Note: Always specify the type attribute for the button element. Different browsers may use different default types for the button element.

The <fieldset> and <legend> Elements

The <fieldset> element is used to group related data in a form.

The <legend> element defines a caption for the <fieldset> element.

Example

Try it Yourself »

First name:	
Last name:	
Submit	

The <datalist> Element

The <datalist> element specifies a list of pre-defined options for an <input> element.

Users will see a drop-down list of the pre-defined options as they input data.

The list attribute of the <input> element, must refer to the id attribute of the <datalist> element.

Example

Try it Yourself »

The <output> Element

The <output> element represents the result of a calculation (like one performed by a script).

Example

Perform a calculation and show the result in an <output> element:

```
<form action="/action_page.php"
  oninput="x.value=parseInt(a.value)+parseInt(b.value)">
  0
  <input type="range" id="a" name="a" value="50">
  100 +
    <input type="number" id="b" name="b" value="50">
    =
    <output name="x" for="a b"></output>
    <br><br><br><input type="submit">
  </form>
```

HTML Input Attributes

This chapter describes the different attributes for the HTML <input> element.

The value Attribute

The input value attribute specifies an initial value for an input field:

Example

Input fields with initial (default) values:

```
<form>
    <label for="fname">First name:</label><br>
    <input type="text" id="fname" name="fname" value="John"><br>
    <label for="lname">Last name:</label><br>
        <input type="text" id="lname" name="lname" value="Doe">
        </form>
```

Try it Yourself »

The readonly Attribute

The input readonly attribute specifies that an input field is read-only.

A read-only input field cannot be modified (however, a user can tab to it, highlight it, and copy the text from it).

The value of a read-only input field will be sent when submitting the form!

Example

A read-only input field:

Try it Yourself »

The disabled Attribute

The input disabled attribute specifies that an input field should be disabled.

A disabled input field is unusable and un-clickable.

The value of a disabled input field will not be sent when submitting the form!

Example

A disabled input field:

```
<form>
    <label for="fname">First name:</label><br>
    <input type="text" id="fname" name="fname" value="John" disabled><br
>
    <label for="lname">Last name:</label><br>
    <input type="text" id="lname" name="lname" value="Doe">
    </form>
```

Try it Yourself »

The size Attribute

The input size attribute specifies the visible width, in characters, of an input field.

The default value for size is 20.

Note: The size attribute works with the following input types: text, search, tel, url, email, and password.

Example

Set a width for an input field:

```
<form>
    <label for="fname">First name:</label><br>
    <input type="text" id="fname" name="fname" size="50"><br>
     <label for="pin">PIN:</label><br>
        <input type="text" id="pin" name="pin" size="4">
        </form>
```

Try it Yourself »

The maxlength Attribute

The input maxlength attribute specifies the maximum number of characters allowed in an input field.

Note: When a maxlength is set, the input field will not accept more than the specified number of characters. However, this attribute does not provide any feedback. So, if you want to alert the user, you must write JavaScript code.

Example

Set a maximum length for an input field:

```
<form>
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" size="50"><br>
  <label for="pin">PIN:</label><br>
  <input type="text" id="pin" name="pin" maxlength="4" size="4">
  </form>
```

Try it Yourself »

The min and max Attributes

The input min and max attributes specify the minimum and maximum values for an input field.

The min and max attributes work with the following input types: number, range, date, datetime-local, month, time and week.

Tip: Use the max and min attributes together to create a range of legal values.

Example

Set a max date, a min date, and a range of legal values:

The multiple Attribute

The input multiple attribute specifies that the user is allowed to enter more than one value in an input field.

Try it Yourself »

The multiple attribute works with the following input types: email, and file.

Example

A file upload field that accepts multiple values:

```
<form>
    <label for="files">Select files:</label>
    <input type="file" id="files" name="files" multiple>
    </form>
```

Try it Yourself »

The pattern Attribute

The input pattern attribute specifies a regular expression that the input field's value is checked against, when the form is submitted.

The pattern attribute works with the following input types: text, date, search, url, tel, email, and password.

Tip: Use the global <u>title</u> attribute to describe the pattern to help the user.

Tip: Learn more about <u>regular expressions</u> in our JavaScript tutorial.

Example

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

```
<form>
    <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">
    </form>
```

Try it Yourself »

The placeholder Attribute

The input placeholder attribute specifies a short hint that describes the expected value of an input field (a sample value or a short description of the expected format).

The short hint is displayed in the input field before the user enters a value.

The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

Example

An input field with a placeholder text:

```
<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}">
  </form>
```

Try it Yourself »

The required Attribute

The input required attribute specifies that an input field must be filled out before submitting the form.

The required attribute works with the following input types: text, search, url, tel, email, password, date pickers, number, checkbox, radio, and file.

Example

A required input field:

```
<form>
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" required>
    </form>
```

Try it Yourself »

The step Attribute

The input step attribute specifies the legal number intervals for an input field.

Example: if step="3", legal numbers could be -3, 0, 3, 6, etc.

Tip: This attribute can be used together with the max and min attributes to create a range of legal values.

The step attribute works with the following input types: number, range, date, datetime-local, month, time and week.

Example

An input field with a specified legal number intervals:

```
<form>
  <label for="points">Points:</label>
  <input type="number" id="points" name="points" step="3">
  </form>

Try it Yourself »
```

Note: Input restrictions are not foolproof, and JavaScript provides many ways to add illegal input. To safely restrict input, it must also be checked by the receiver (the server)!

The autofocus Attribute

The input autofocus attribute specifies that an input field should automatically get focus when the page loads.

Example

Let the "First name" input field automatically get focus when the page loads:

```
<form>
    <label for="fname">First name:</label><br>
    <input type="text" id="fname" name="fname" autofocus><br>
     <label for="lname">Last name:</label><br>
        <input type="text" id="lname" name="lname">
        </form>
```

Try it Yourself »

The height and width Attributes

The input height and width attributes specify the height and width of an <input type="image"> element.

Tip: Always specify both the height and width attributes for images. If height and width are set, the space required for the image is reserved when the page is loaded. Without these attributes, the browser does not know the size of the image, and cannot reserve the appropriate space to it. The effect will be that the page layout will change during loading (while the images load).

Example

Define an image as the submit button, with height and width attributes:

```
<form>
    <label for="fname">First name:</label>
    <input type="text" id="fname" name="fname"><br>
    <label for="lname">Last name:</label>
    <input type="text" id="lname" name="lname"><br>
    <input type="image" src="img_submit.gif" alt="Submit" width="48" he ight="48">
    </form>
```

Try it Yourself »

The list Attribute

The input list attribute refers to a <datalist> element that contains pre-defined options for an <input> element.

Example

An <input> element with pre-defined values in a <datalist>:

Try it Yourself »

The autocomplete Attribute

The input autocomplete attribute specifies whether a form or an input field should have autocomplete on or off.

Autocomplete allows the browser to predict the value. When a user starts to type in a field, the browser should display options to fill in the field, based on earlier typed values.

The autocomplete attribute works with <form> and the following <input> types: text, search, url, tel, email, password, datepickers, range, and color.

Example

An HTML form with autocomplete on, and off for one input field:

Try it Yourself »

Tip: In some browsers you may need to activate an autocomplete function for this to work (Look under "Preferences" in the browser's menu).