

**HTML PROGRAMMING**



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Forms



# Forms



The HTML **<form>** element defines a form that is used to collect user input.

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

An HTML form contains **form elements**.

Form elements are different types of input elements, like text fields, checkboxes, radio buttons, submit buttons, and more.

# The <input> Element

The <input> element is the most important form element.

The <input> element can be displayed in several ways, depending on the **type** attribute.

<input type="text">	Defines a one-line text input field
<input type="radio">	Defines a radio button (for selecting one of many choices)
<input type="submit">	Defines a submit button (for submitting the form)

# Text Input

`<input type="text">` defines a one-line input field for **text input**:

`<form>`

**First name :**

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

**Last name :**

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

`</form>`



# OUTPUT

First name:

Last name:



# Radio Button Input

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

Radio buttons let a user select ONE of a limited number of choices.

```
<form>  
  <input type="radio" name="gender" value="male" > Male  
  <input type="radio" name="gender" value="female"> Female  
  <input type="radio" name="gender" value="other"> Other  
</form>
```



# OUTPUT

- Male
- Female
- Other



# The Submit Button

**<input type="submit">** defines a button for **submitting** the form data to a **form-handler**.

**<form>**

**First name:**

**<input type="text" name="firstname">**

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

**</form>**



# OUTPUT

---

First name:



# Input Type Checkbox

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

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

```
<form>
<input type="checkbox" name="vehicle1" value="Bike">I have a bike
<br>
<input type="checkbox" name="vehicle2" value="Car">I have a car
<br>
<input type="checkbox" name="vehicle2" value="Vehicle">Vehicle
</form>
```



## OUTPUT

- I have a bike
- I have a car
- Vehicle



## Input Type Password

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

**<form>**

**User name:**

**<input type="text" name="name">**

**User password:**

**<input type="password" name="password">**

**</form>**



# OUTPUT

User name:

User password:

## Input Type Reset

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

```
<form>
```

First name:

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

Last name:

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

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

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

```
</form>
```



# OUTPUT

First name:

Last name:



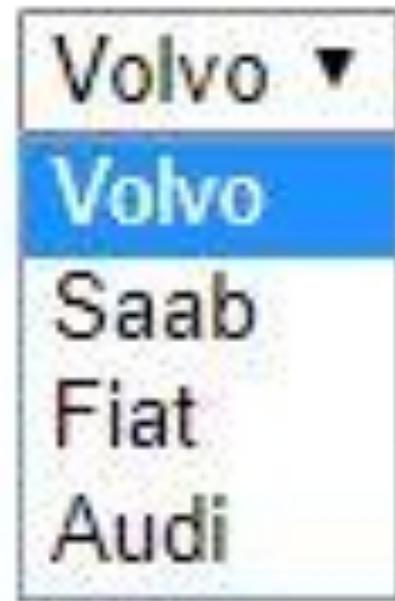
# The <select> Element

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

```
<form>
  <select name="cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
    <option value="fiat">Fiat</option>
    <option value="audi">Audi</option>
  </select>
  <input type="submit">
</form>
```



## OUTPUT



# The <textarea> Element

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

```
<form>
```

```
  <textarea name="message" rows="10" cols="30">
```

```
    This is text inside textarea...
```

```
  </textarea>
```

```
</form>
```



# OUTPUT

This is text inside  
textarea...

## <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.



```
<form>  
  <input list="browsers" name="browser">  
  <datalist id="browsers">  
    <option value="Internet Explorer">  
    <option value="Firefox">  
    <option value="Chrome">  
    <option value="Opera">  
    <option value="Safari">  
  </datalist>  
  <input type="submit">  
</form>
```



# OUTPUT

- Internet Explorer**
- Firefox
- Chrome
- Opera
- Safari



# HTML5 Input Types

HTML5 added several new input types:

- color
- date
- datetime-local
- email
- month
- number
- range
- search
- tel
- time
- url
- week



# Input Type Color

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

```
<form>
```

Select color:

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

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

```
</form>
```



# OUTPUT

Select color:



Submit



## Input Type Date

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

```
<form>
```

Birthday:

```
    <input type="date" name="bday">
```

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

```
</form>
```



# OUTPUT

Birthday:



## Input Type Email

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

**<form>**

**E-mail:**

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

**<input type="submit">**

**</form>**



## OUTPUT

E-mail:

Submit



# Input Type Number

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

You can also set restrictions on what numbers are accepted.

**<form>**

**Quantity (between 1 and 5):**

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



## OUTPUT

---

Quantity (between 1 and 5):

# Input Restrictions

<form>

Quantity:

```
<input type="number" name="quantity"  
min="0" max="100" step="10" value="30">
```

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

</form>



## OUTPUT

Quantity:

# HTML Input Attributes



## The value Attribute

The **value** attribute specifies the initial value for an input field.

```
<form action="">  
First name:<br>  
<input type="text" name="firstname" value="John">  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>
```



**First name:**

John

**Last name:**



## The readonly Attribute

The **readonly** attribute specifies that the input field is read only (cannot be changed):

```
<form action="">  
First name:<br>  
<input type="text" name="firstname" value ="malik" readonly>  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>
```



# OUTPUT

First name:

Last name:



# The disabled Attribute

The **disabled** attribute specifies that the input field is disabled.

A disabled input field is unusable and un-clickable, and its value will not be sent when submitting the form.

```
<form action="">
```

First name:

```
<input type="text" name="firstname" value ="malik" disabled>
```

Last name:

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

```
</form>
```



# OUTPUT

First name:

Last name:



# The size Attribute

The **size** attribute specifies the size (in characters) for the input field:

<form>

First name:<br>

<input type="text" name="firstname" size="40">

Last name:

<input type="text" name="lastname">

</form>



First name:

demo

Last name:



# The maxlength Attribute

The **maxlength** attribute specifies the maximum allowed length for the input field:

```
<form>  
First name:<br>  
<input type="text" name="firstname" maxlength="10">  
<br>  
Last name:<br>  
<input type="text" name="lastname">  
</form>
```



First name:

Last name:



# The multiple Attribute

The **multiple** attribute specifies that the user is allowed to enter more than one value in the <input> element.

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

<**form**>

Select images: <input type="file" name="img" multiple>  
<input type="submit">

</**form**>



Select images:  2 files

# The placeholder Attribute

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

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

```
<form>
  <input type="text" name="fname" placeholder="First name"><br>
</form>
```



First name



# The required Attribute

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

```
<form>  
  Username: <input type="text" name="username" required>  
  <input type="submit">  
</form>
```



# OUTPUT

Username:

Submit



## The step Attribute

The **step** attribute specifies the legal number intervals for an <input> element.

```
<form>
  <input type="number" name="points" step="3">
</form>
```



# OUTPUT



A screenshot of a digital interface. In the center is a white input field with a blue border, containing the number "6". To the right of the input field is a small control panel with two arrows pointing up and down, likely for adjusting the value.



\*\*\*\*\*



### Personal Details

Name:

Password:

E-mail id:

Gender:  Male  Female

Contact#:

### Educational Qualification

Degree:

Engineering:

Hobbies:  Playing chess  Reading Books

### Address

Attach Resume  No file chosen

**SUBMIT** 