

HTML Forms

Client-side

Overview of Forms

- Form

- An HTML element that contains and organizes
- form controls such as

text boxes,
check boxes,
and buttons

that can accept information from website visitors.



Shipping Address Entry

Name:

Company:

Address Line 1:

Address Line 2:

City:

State:

Zip Code: -

Country:

Two Parts of Forms

- HTML form:
 - The user interface (client-side)
- Server-side processing:
 - The action (server-side)
 - send e-mail
 - write data to a text file
 - update a database
 - performs some other type of processing on the server

Common HTML Form Elements

- `<form>`
 - Contains the form elements on a web page
 - Container tag
- `<input>`
 - Configures a variety of form elements including text boxes, radio buttons, check boxes, and buttons
 - Stand alone tag
- `<textarea>`
 - Configures a scrolling text box
 - Container tag
- `<select>`
 - Configures a select box (drop down list)
 - Container tag
- `<option>`
 - Configures an option in the select box
 - Container tag

Sample Form HTML

```
<h1>Join Our Newsletter</h1>
<form method="post" action="some-processor.php">
    E-mail:
    <input type="text"><br>
    <input type="submit">
    <input type="reset">
</form>
```



HTML form element

```
<form method="post" action="#">  
</form>
```

Attributes

- method
 - get – default value,
form data passed in URL
 - post – more secure,
form data passed in HTTP Entity Body
- action
 - Specifies the server-side program or script that will process your form data

Input Text box

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

<input>

Accepts text information



Sample Text Box

Email:

Attributes:

- type="text" (the default)
- name="" (so the script on the server can "grab" the form data)
- id="" (to uniquely identify the element to do client-side stuff)

input Password box

- `<input>`
- Accepts text information that needs to be hidden as it is entered
- Attributes:
 - `type="password"`
 - `name`
 - `id`



A sample password box with a title "Sample Password Box" and a label "Password:" followed by a text input field. The input field contains masked characters (asterisks) and a vertical cursor line.

input Check box

- <input>
- Allows the user to select one or more of a group of predetermined items
- Attributes:
 - type="checkbox"
 - name
 - id
 - checked
 - value

Sample Check Box

Choose the browsers you use:

- ☐ Internet Explorer
- ☐ Firefox
- ☐ Opera

input Radio Button

- `<input>`
- Allows the user to select exactly one from a group of predetermined items
- Each radio button in a group is given the same name and a unique value
- Attributes:
 - `type="radio"`
 - `name`
 - `id`
 - `checked`
 - `value`

Sample Radio Buttons

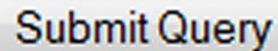
Select your favorite browser:

- ☐ Internet Explorer
- ☐ Firefox
- ☐ Opera

input Submit Button

- `<input>`
- Submits the form information
- When clicked:
 - Triggers the **action** method on the `<form>` tag
 - Sends the form data (the name=value pair for each form element) to the web server.
- Attributes:
 - type="submit"
 - name
 - id
 - value

Sample Submit Button

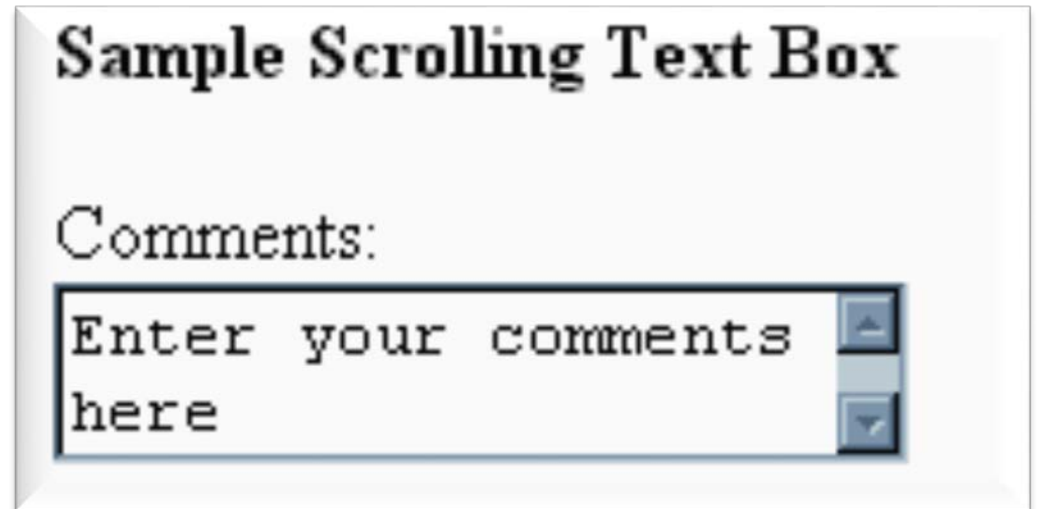


Submit Query

textarea Scrolling Text Box

```
<textarea name="comments" id="comments"></textarea>
```

- `<textarea>` `</textarea>`
- Configures a scrolling text box
- Attributes:
 - name
 - id



Accessibility & Forms

- Label Element
- Fieldset Element
- Legend Element
- Tab index

Label element

- `<label></label>`
- Associates a text label with a form control
- Two Different Formats:

`<label>Email: <input type="text" name="email" id="email"></label>`

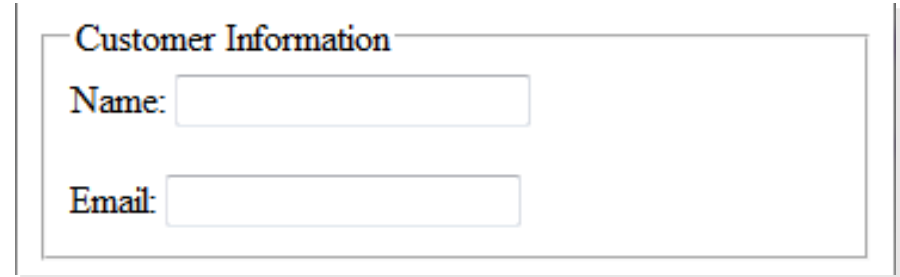
Or

`<label for="email">Email: </label>
<input type="text" name="CustEmail" id="email">`

Fieldset and Legend Elements

- The Fieldset Element

- Container tag
- Creates a visual group of form elements on a web page



A visual representation of a fieldset. It consists of a rectangular box with a thin border. Inside the box, at the top, is the text "Customer Information" in a blue, serif font. Below this text are two text input fields. The first field is preceded by the label "Name:" and the second by "Email:". Both labels are in a blue, serif font. The input fields are simple rectangular boxes with a light gray border.

- The Legend Element

- Container tag
- Creates a text label within the fieldset

```
<fieldset>
```

```
    <legend>Customer Information</legend>
```

```
    <label>
```

```
        Name:
```

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

```
    <label>
```

```
        Email:
```

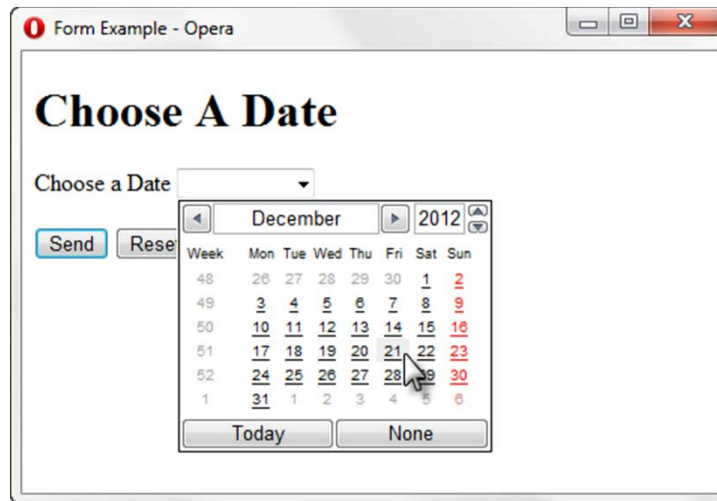
```
        <input type="text" name="email" id="email">
    </label>
```

```
</fieldset>
```

New HTML5 Form Elements and Attributes

HTML5: Calendar Control

```
<label for="myDate">Choose a Date</label>  
<input type="date" name="myDate" id="myDate">
```

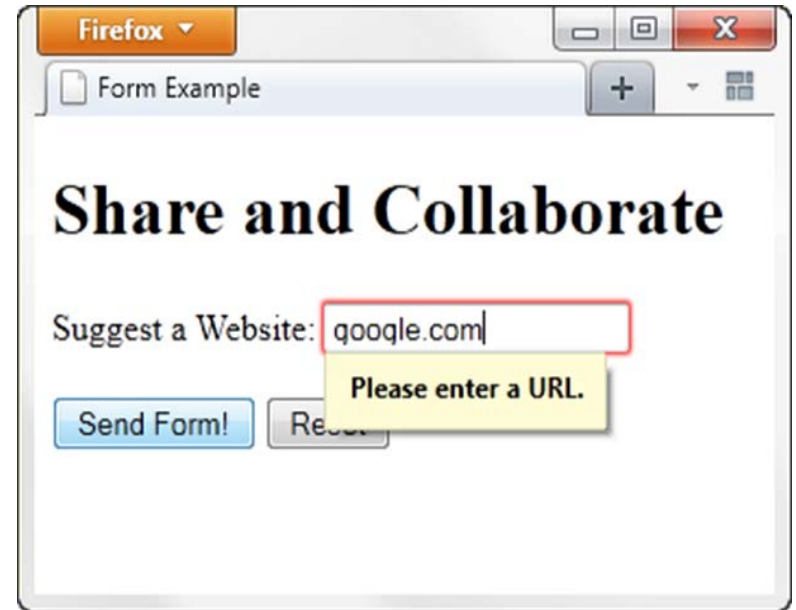


HTML5: Email Text Box

- `<input>`
- Accepts text information in e-mail address format
- Common Attributes:
 - `type="email"`
 - `name`
 - `id`
 - `size`
 - `maxlength`
 - `value`
 - `placeholder`
 - `required`



- `<input>`
- Accepts text information in URL format
- Common Attributes:
 - `type="url"`
 - `name`
 - `id`
 - `size`
 - `maxlength`
 - `value`
 - `placeholder`
 - `required`

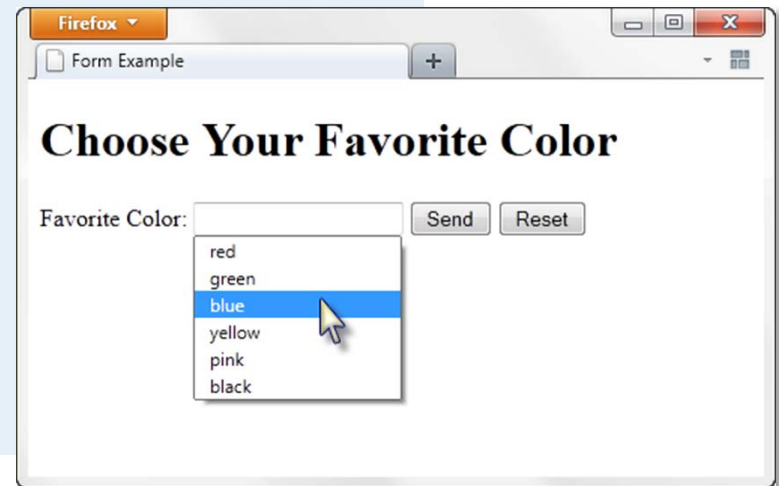


HTML5: Telephone Number Text Box

- `<input>`
- Accepts text information in telephone number format
- Common Attributes:
 - `type="tel"`
 - `name`
 - `id`
 - `size`
 - `maxlength`
 - `value`
 - `placeholder`
 - `required`

HTML5: Datalist Control

```
<label for="color">Favorite Color:</label>
<input type="text" name="color" id="color"
list="colors" >
<datalist id="colors">
  <option value="red">
  <option value="green">
  <option value="blue">
  <option value="yellow">
  <option value="pink">
  <option value="black">
</datalist>
```

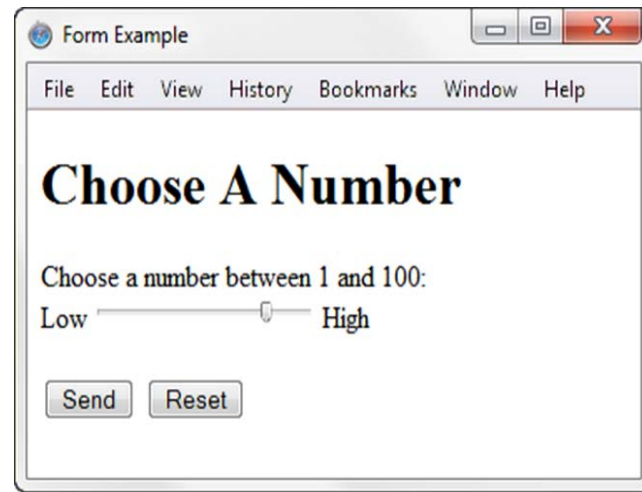


HTML5: Slider Control

`<label for="myChoice">`

Choose a number between 1 and 100:`</label>
`

Low `<input type="range" name="myChoice" id="myChoice"`
`min="1" max="100">` High



HTML5: Spinner Control

```
<label for="myChoice">Choose a number between 1 and 10:</label>  
<input type="number" name="myChoice" id="myChoice"  
      min="1" max="10">
```



The screenshot shows a web browser window with a single tab titled 'Form Example'. The address bar displays a file path: 'file:///C:/Users/DrMorris/Documen'. The main content area features a heading 'Choose A Number' in a large, bold, black serif font. Below the heading, there is a text label 'Choose a number between 1 and 10:' followed by a text input field containing the number '3'. To the right of the input field is a small blue spinner control with up and down arrows. A mouse cursor is hovering over the spinner. At the bottom of the form, there are two buttons: 'Send' and 'Reset'.