

HTML FORMS

PART I

TWO PARTS OF FORMS



HTML form:

The user interface (client-side)



Server-side processing:

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

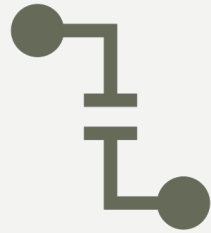
`<input>`

- Configures a variety of form elements including text boxes, radio buttons, check boxes, and buttons
- Stand alone tag

`<textarea>`

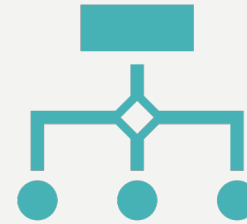
- Configures a scrolling text box
- Container tag

HTML FORM ELEMENT



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

```
<form method="post" action="form-processor.php">  
  <!-- all form elements and other HTML in here -->
```

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

SIMPLE FORM HTML

```
<h1>Join Our Newsletter</h1>
```

```
<form method="post" action="form-processor.php">
```

```
  E-mail: <input type="text"><br>
```

```
  <input type="submit" value="Sign Me Up!">
```

```
</form>
```



INPUT TEXT BOX

`<input>`

- Accepts text information

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=""`

Sample Password Box

Password:

INPUT CHECKBOX

`<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



**Only one button
can be pressed
at any time**

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"`
 - `value=""`

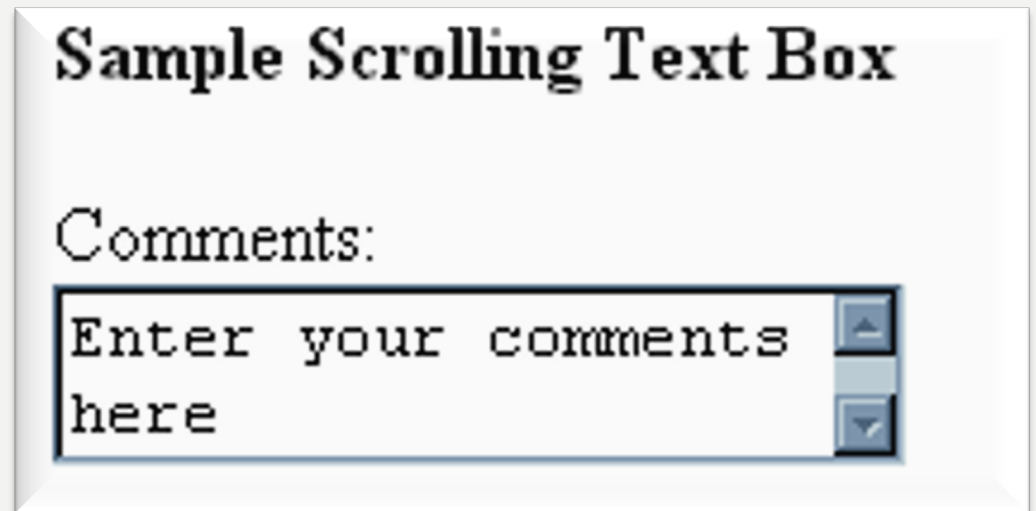
Sample Submit Button

Submit Query

TEXTAREA SCROLLING TEXT BOX

`<textarea> </textarea>`

- Configures a scrolling text box
- Attributes:
 - `name=""`
 - `id=""`



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



ACCESSIBILITY & FORMS

LABEL ELEMENT
FIELDSET ELEMENT
LEGEND ELEMENT

LABEL ELEMENT

```
<label></label>
```

- Associates a text label with a form control

```
<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
- The Legend Element
 - Container tag
 - Creates a text label within the fieldset



```
<fieldset>
```

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


```
  <label>Name: </label>
```

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

```
  <label>Email: </label>
```

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

```
</fieldset>
```

A decorative wavy line in yellow and white on the left side of the image.

NEW HTML5 FORM ELEMENTS AND ATTRIBUTES

HTML5: EMAIL TEXT BOX

`<input>`

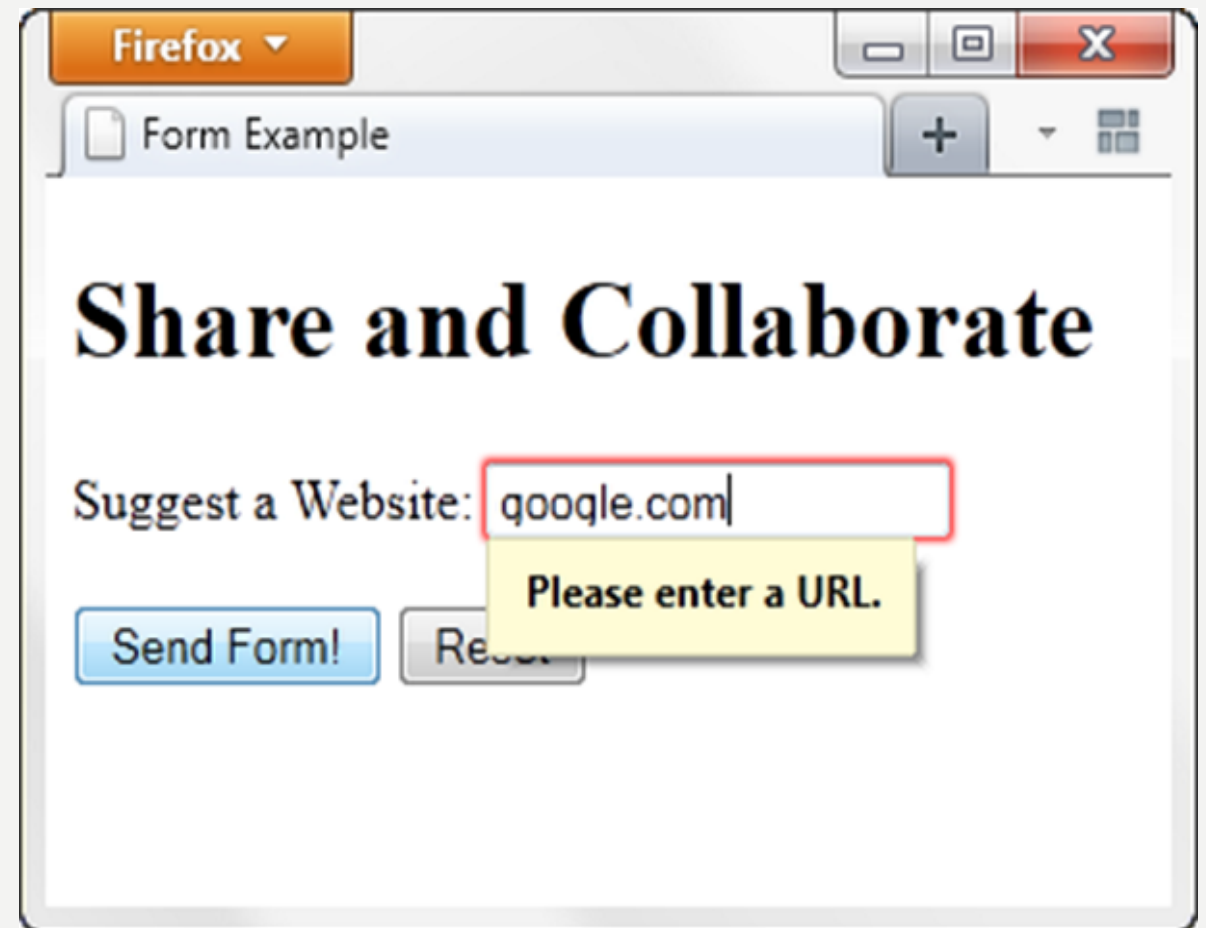
- Accepts text information in e-mail address format
- Common Attributes:
 - `type="email"`
 - `name`
 - `id`
 - `size`
 - `maxlength`
 - `value`
 - `placeholder`
 - `required`



HTML5: URL TEXT BOX

`<input>`

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



Firefox ▾

Form Example

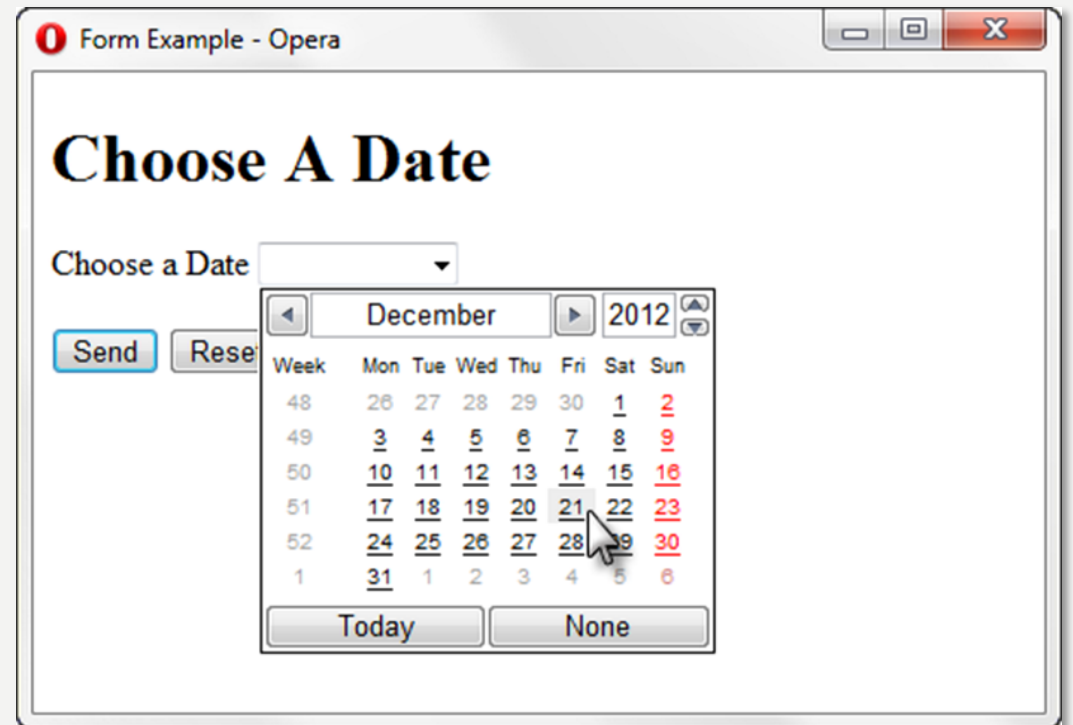
Share and Collaborate

Suggest a Website:

Please enter a URL.

HTML5: CALENDAR CONTROL

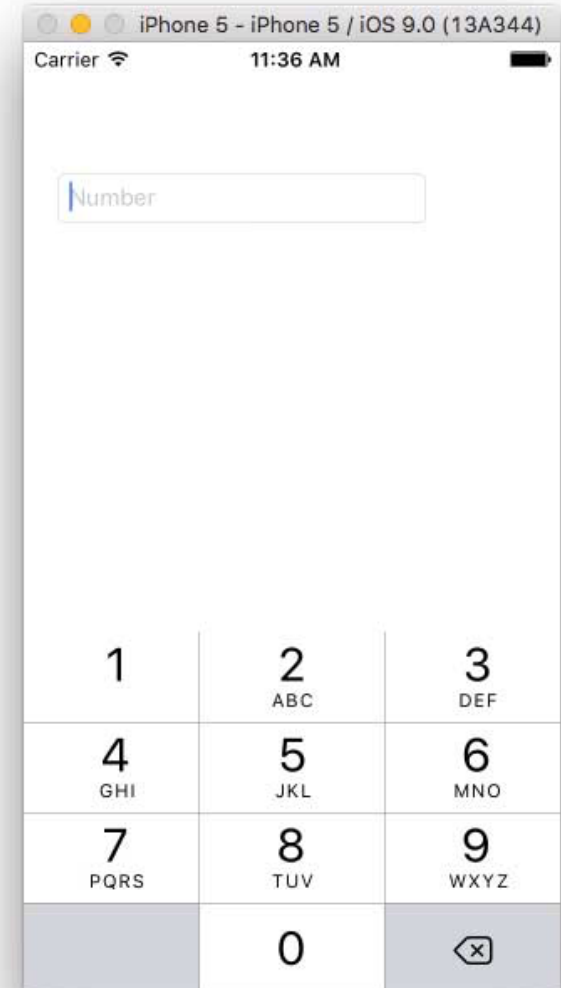
```
<label for="myDate">Choose a Date</label>  
<input type="date" name="myDate" id="myDate">
```



HTML5: TELEPHONE NUMBER TEXT BOX

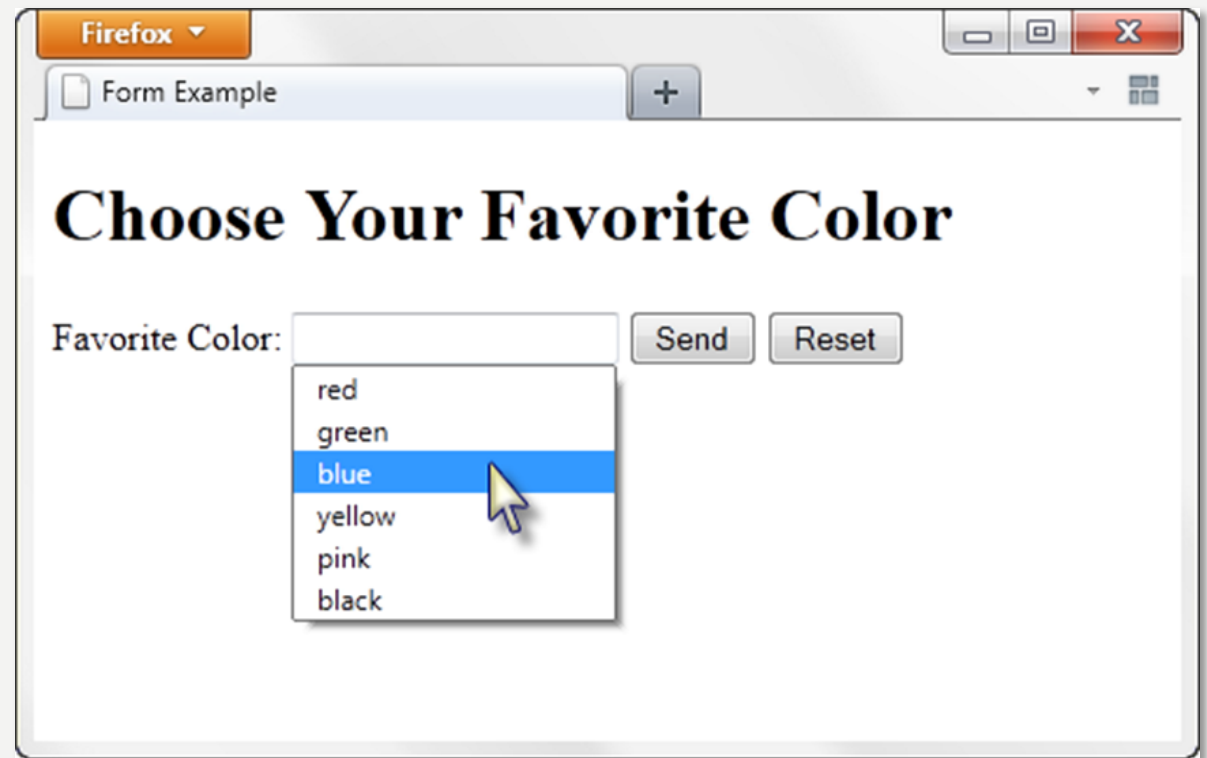
`<input>`

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



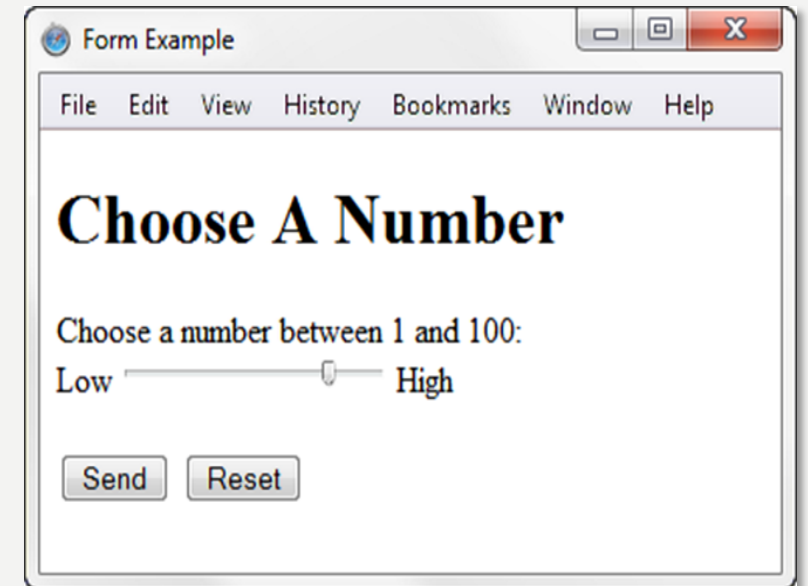
HTML5: DATALIST CONTROL

- `<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

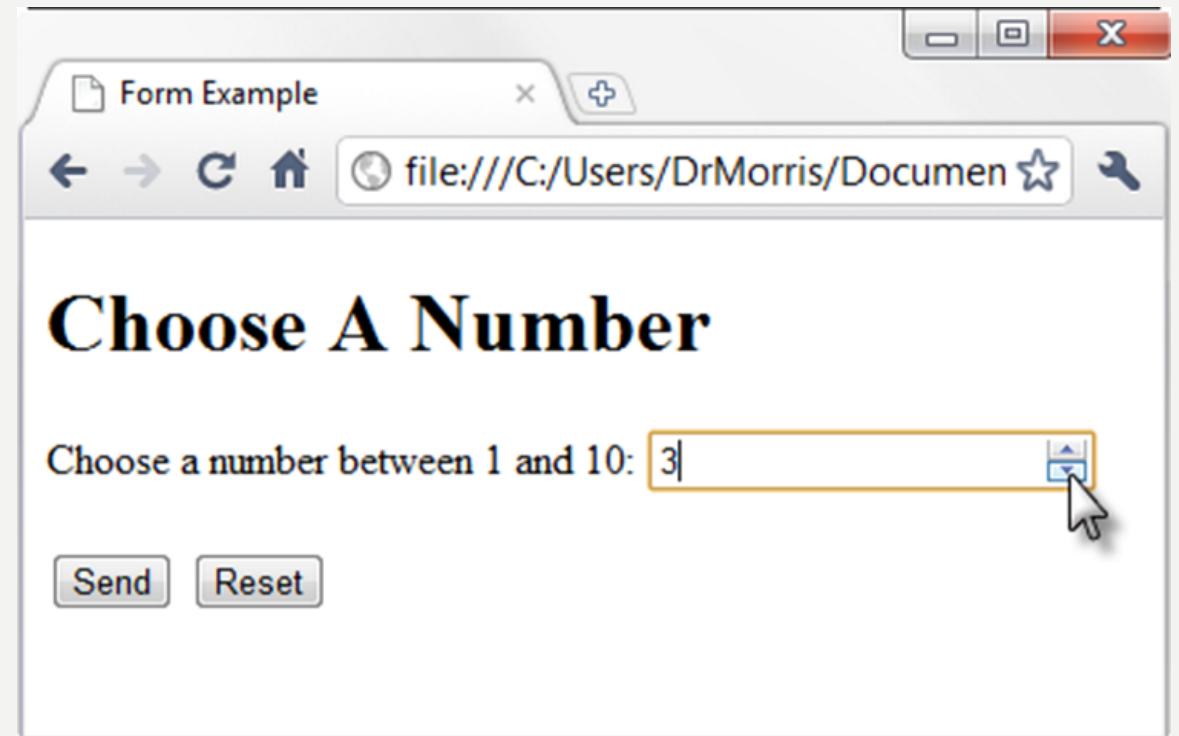
- `<label for="myChoice">`
- Choose a number between 1 and 100:`</label>
`
- Low `<input type="range" name="myChoice" id="myChoice" min="1" max="100">` High



The screenshot shows a web browser window titled "Form Example". The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Window", and "Help". The main content area displays the heading "Choose A Number" in a large, bold, black serif font. Below the heading, the text "Choose a number between 1 and 100:" is shown in a smaller black serif font. Underneath this text is a horizontal slider control. The slider has a track with a vertical line in the middle, and the word "Low" is positioned to the left of the track while the word "High" is to the right. A small, light-blue slider knob is currently positioned at the center of the track. At the bottom of the form, there are two buttons: "Send" and "Reset", both with a light gray gradient and a thin border.

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 the 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 is a text label "Choose a number between 1 and 10:" followed by a number input field. The input field contains the value "3" and has a small spinner control on its right side, which is being interacted with by a mouse cursor. At the bottom of the form, there are two buttons: "Send" and "Reset".