

# HTML Forms

Part 1

# 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

# Simple Form HTML

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

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

```
    E-mail:
```

```
    <input type="text"><br>
```

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

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

```
</form>
```



# 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, in here -->
```

```
</form>
```

# Input Text box

`<input>`

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

- 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)



**Sample Text Box**

Email:

# 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 containing masked characters (asterisks).

**Sample Password Box**

Password:

# 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



**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**

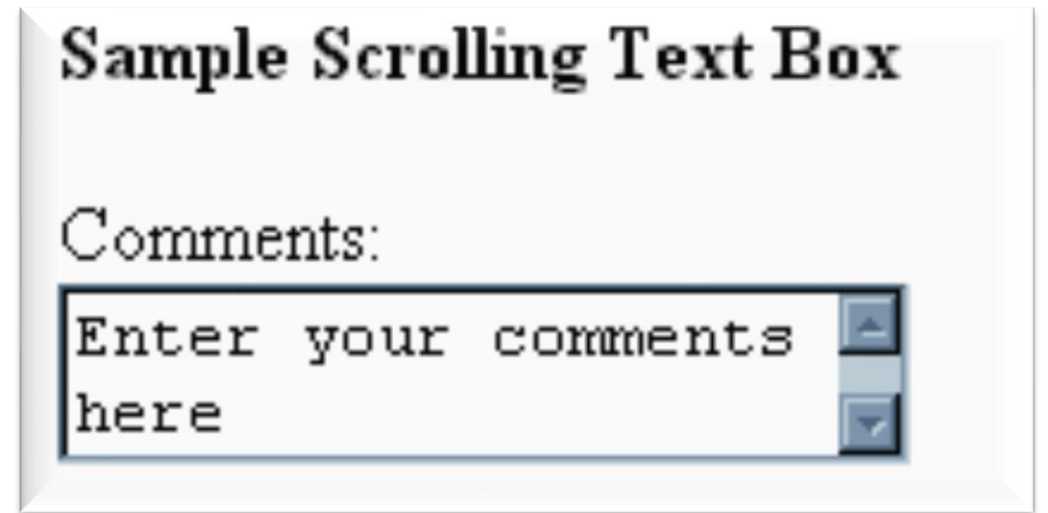
A rectangular button with a light gray background and a thin black border. The text "Submit Query" is centered on the button in a dark gray, sans-serif font.

# 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

# 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">
```

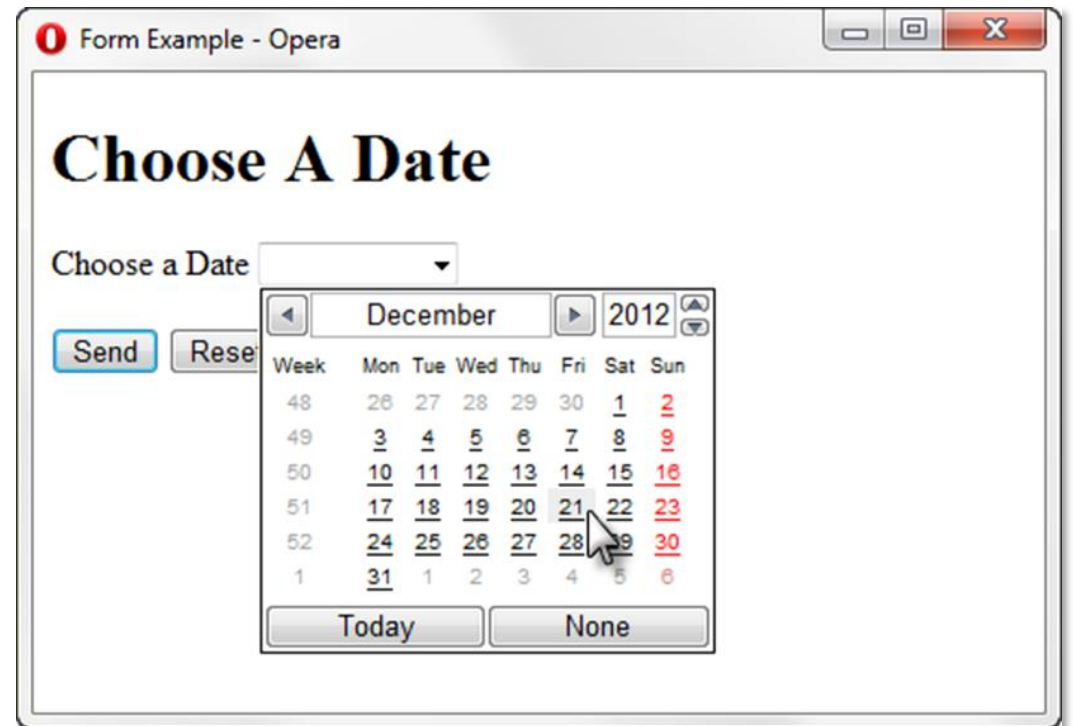
```
</fieldset>
```

# 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>`

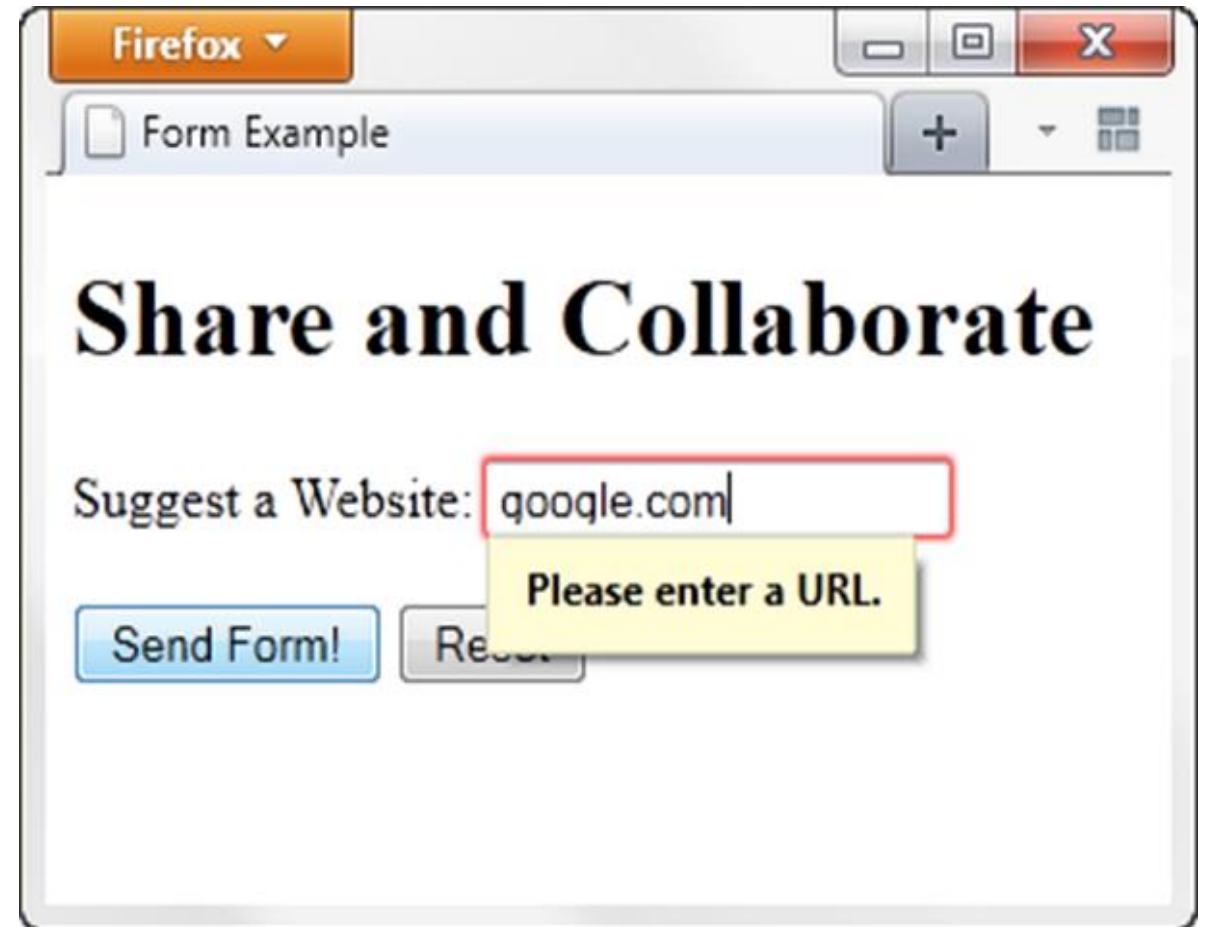
- Accepts text information in e-mail address format
- Common Attributes:
  - `type="email"`
  - `name`
  - `id`
  - `size`
  - `maxlength`
  - `value`
  - `placeholder`
  - `required`

The screenshot shows a Firefox browser window with a single tab titled 'Form Example'. The page content includes a heading 'Join Our Newsletter' in a large, bold, black serif font. Below the heading is a form with the label 'E-mail:' followed by a text input field. The input field contains the text 'Dr. Morris'. A red rectangular border highlights the input field. A yellow tooltip box with a black border and a drop shadow is positioned over the bottom right of the input field, containing the text 'Please enter an email address.' in a bold, black, sans-serif font. Below the input field is a 'Sign Me Up' button, which is partially obscured by the tooltip. The browser's address bar is empty, and the status bar at the bottom is not visible.

# HTML5: URL Text Box

`<input>`

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



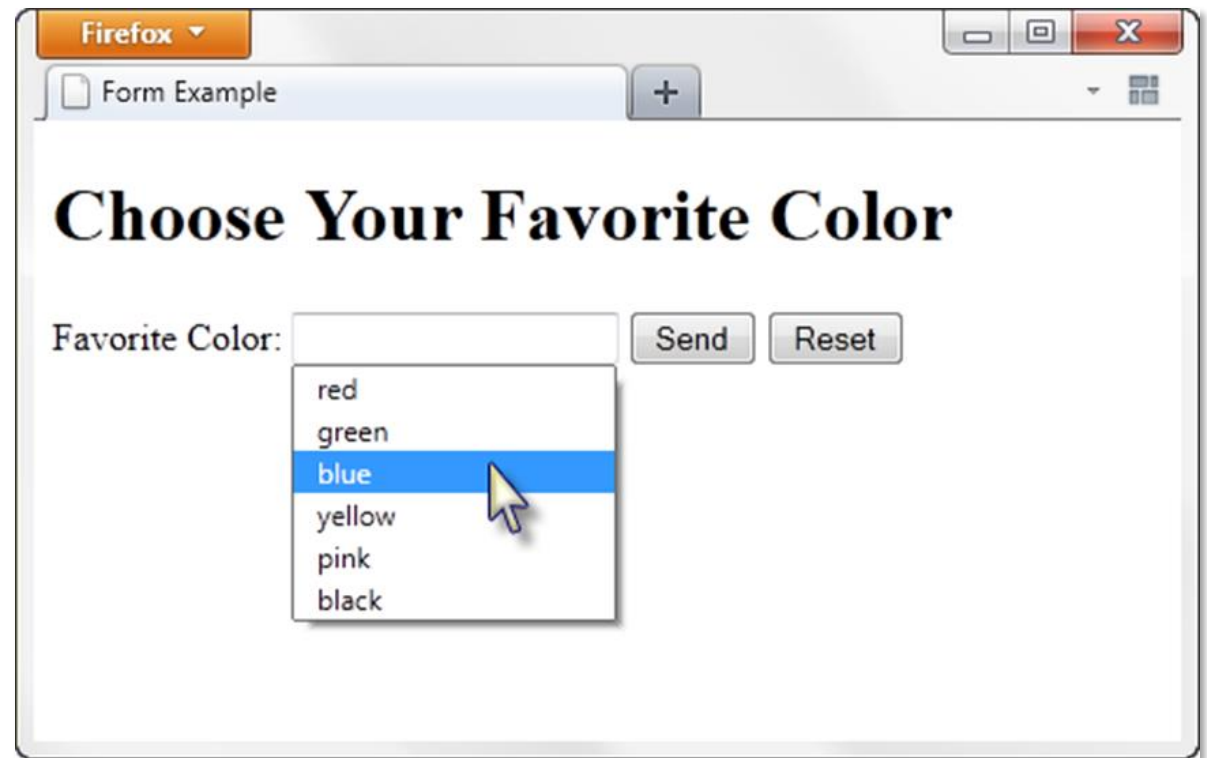
# HTML5: Telephone Number Text Box

`<input>`

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

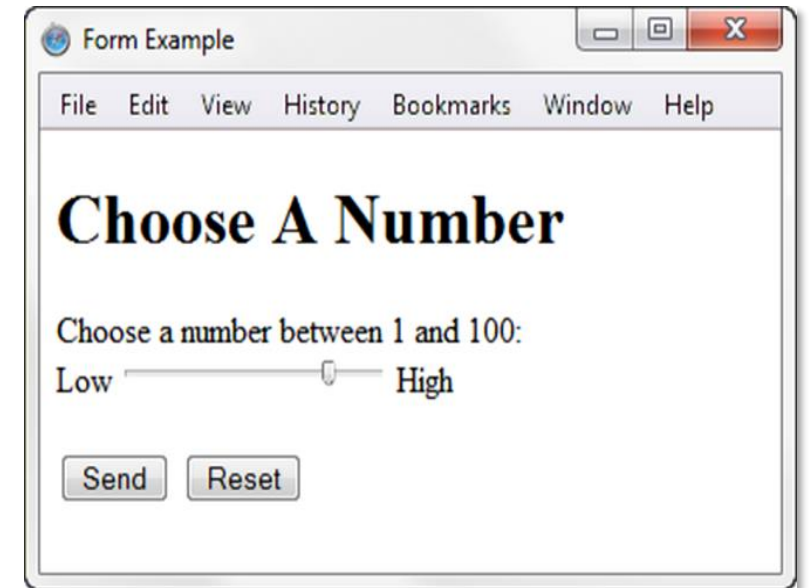
# HTML5: Datalist Control

- `<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><br>`
- 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 positioned on the track, slightly to the right of the center. At the bottom of the form, there are two buttons: "Send" and "Reset", both with a light gray background 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">`

