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:	United States ▼

Continue   Clear All

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

```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>
```


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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>
- Accepts text information that needs to be hidden as it is entered

- Attributes:
  - type="password"
  - name
  - id

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
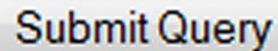
Select your favorite browser:
- ◎ Internet Explorer
- ◎ Firefox
- ◎ Opera

- <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

Sample Scrolling Text Box

Comments:

Enter your comments here
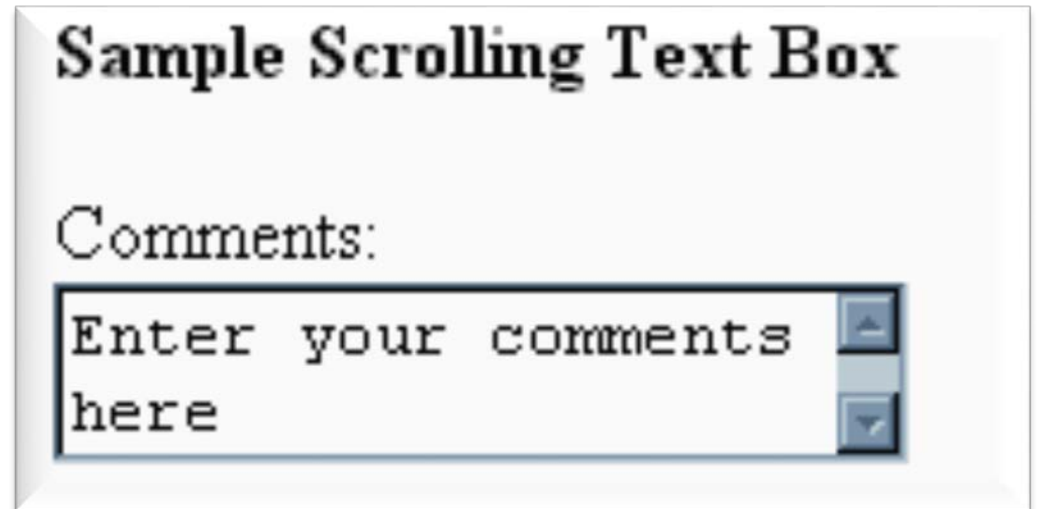
Accessibility & Forms

- 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>
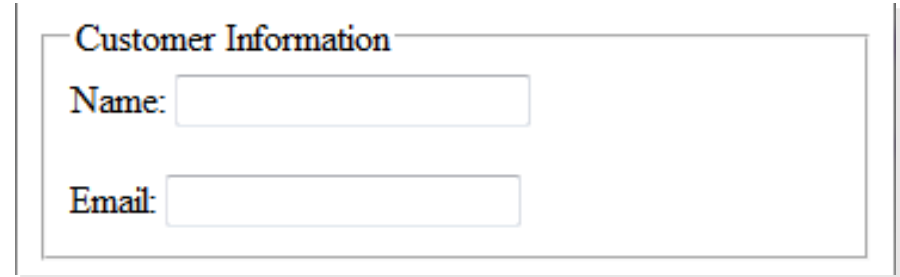
Or

\<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

- 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>
```
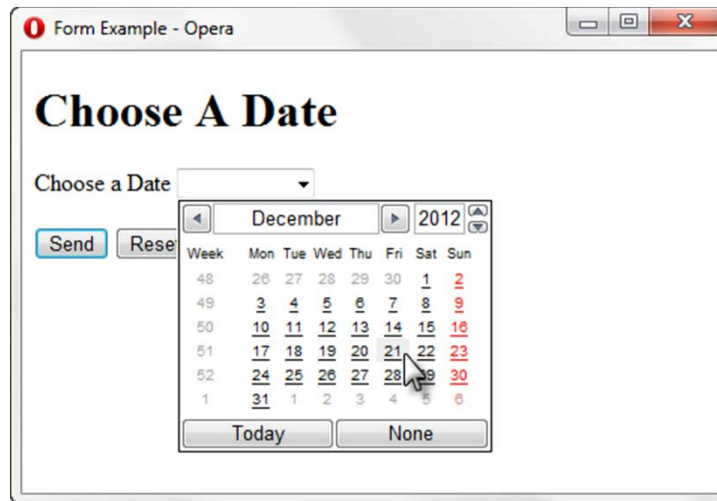
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New HTML5 Form Elements and Attributes

```
<label for="myDate">Choose a Date</label>
<input type="date" name="myDate" id="myDate">
```
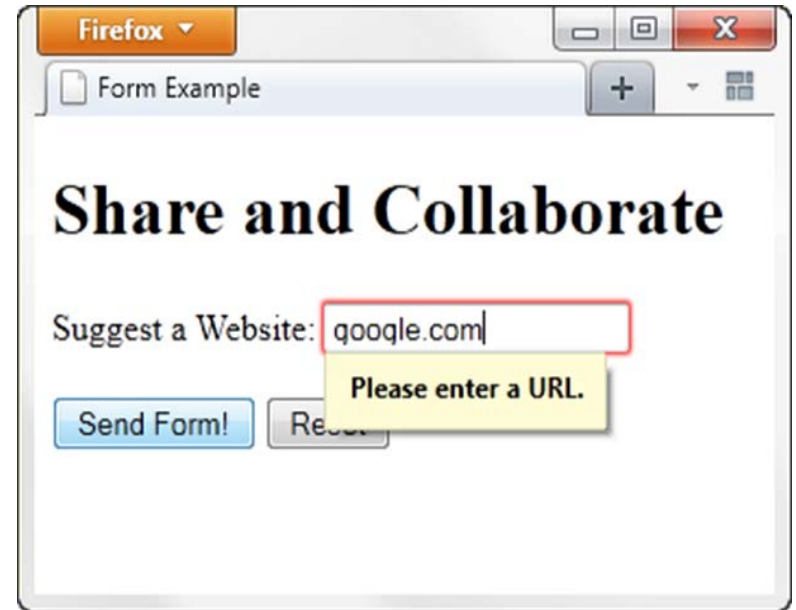
- <input>
- Accepts text information in e-mail address format

- Common Attributes:
  - type="email"
  - name
  - id
  - size
  - maxlength
  - value
  - placeholder
  - required

- <input>
- Accepts text information in URL format

- Common Attributes:
  - type="url"
  - name
  - id
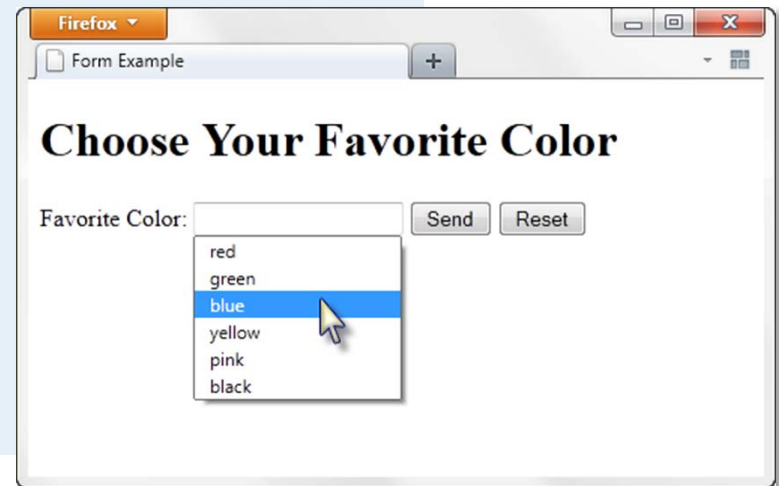 - size
  - maxlength
  - value
  - placeholder
  - required

HTML5: Telephone Number Text Box

- <input>
- Accepts text information in telephone number format

- Common Attributes:
  - type="tel"
  - name
  - id
  - size
  - maxlength
  - value
  - placeholder
  - required

```html
<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>
```
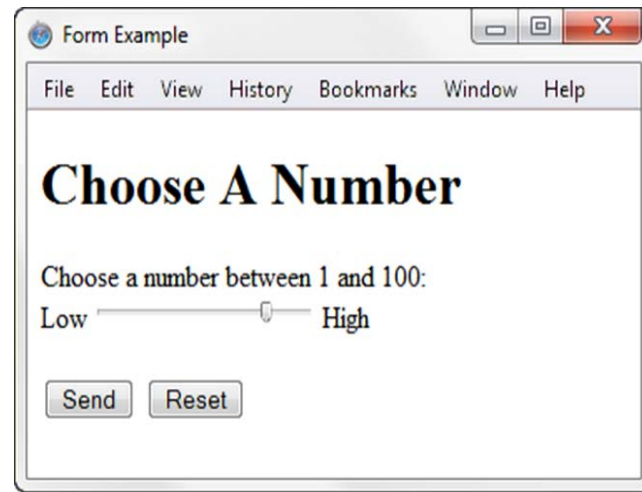
<label for="myChoice">

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

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

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