HTML Forms

Client-side

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

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.

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 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

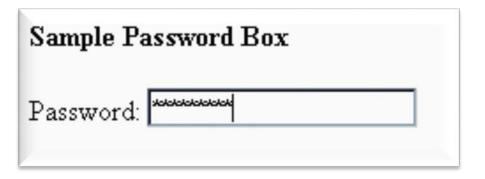


Attributes:

- 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
 - \circ id



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
- o 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

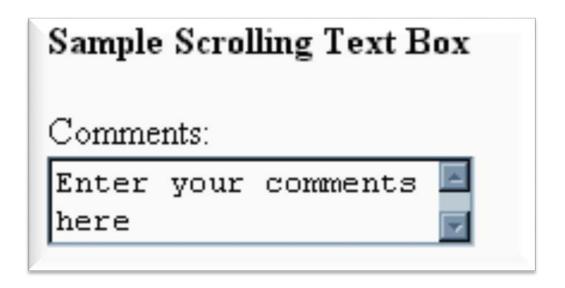
Sample Submit Button

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:

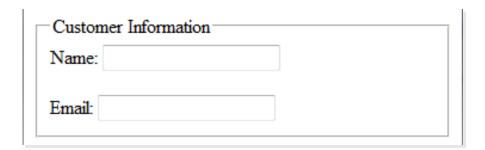
```
<label>Email: <input type="text" name="email" id
="email"></label>
```

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



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

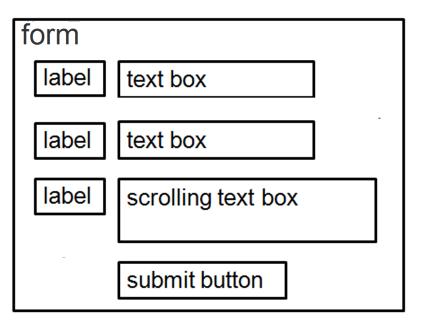
<fieldset>

<legend>Customer Information</legend>

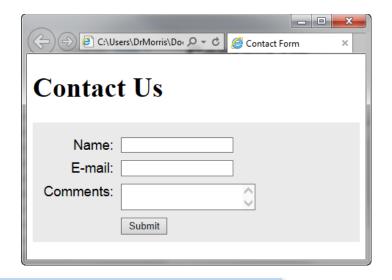
```
<label>
  Name:
    <input type="text" name="name" id="name">
  </label><br>
<label>
  Email:
    <input type="text" name="email" id="email">
  </label>
```

tabindex attribute

- Attribute that can be used on form controls and anchor tags
- Modifies the default tab order
- Assign a numeric value
- <input type="text" name="CustEmail" id="CustEmail"
 tabindex="1">



Using CSS to Style a Form

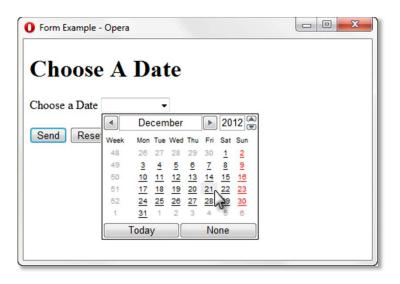


```
form { background-color: #eaeaea;
font-family: Arial, sans-serif; padding: 10px; }
label { float: left; width: 100px; clear: left; text-align: right;
padding-right: 10px; margin-top: 10px; }
input, textarea { margin-top: 10px; display: block; }
#mySubmit { margin-left: 110px; }
```

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



HTML5: URL Text Box

- <input>
- Accepts text information in URL format

Common Attributes:

- type="url"
- name
- o 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

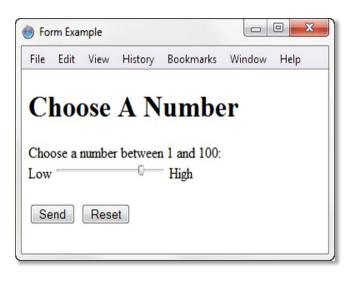
```
<label for="color">Favorite Color:</label>
 <input type="text" name="color" id="color"</pre>
 list="colors" >
<datalist id="colors">
   <option value="red">
   <option value="green">
   <option value="blue">
   <option value="yellow">
                                           Form Example
     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

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

