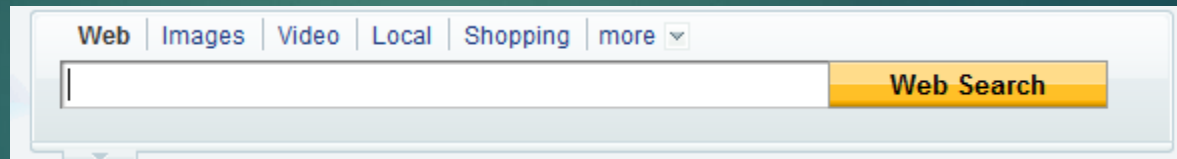


Learning Outcomes

- ▶ **Today in chapter 9, you will learn how to ...**
 - ▶ Describe common uses of forms on web pages
 - ▶ Create forms on web pages using the form, input, textarea, and select elements

Overview of Forms

- ▶ Forms are used all over the Web to
 - ▶ Accept information
 - ▶ Provide interactivity



- ▶ Types of forms:
 - ▶ Search form, Order form, Newsletter sign-up form, Survey form, Add to Cart form, and so on...

Overview of Forms (2)

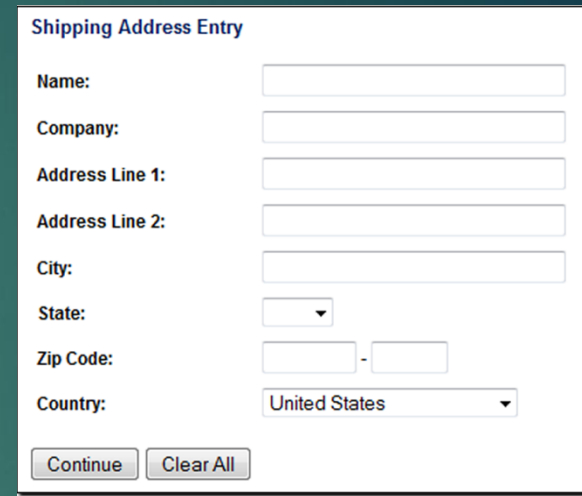
▶ Form

▶ An HTML element that contains and organizes

▶ **form controls** such as

text boxes,
check boxes,
and buttons

that can accept information from
website visitors.



The image shows a screenshot of a web form titled "Shipping Address Entry". The form contains the following fields and controls:

- Name:
- Company:
- Address Line 1:
- Address Line 2:
- City:
- State:
- Zip Code: -
- Country:

At the bottom of the form, there are two buttons: "Continue" and "Clear All".

Two Components of Using Forms

1. The HTML form

- the web page user interface

and

2. The server-side processing

Server-side processing works with the form data and sends e-mail, writes to a text file, updates a database, or performs some other type of processing on the server.

HTML Using Forms

- ▶ `<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

HTML Form Elements

<u><form></u>	Defines an HTML form for user input
<u><input></u>	Defines an input control
<u><textarea></u>	Defines a multiline input control (text area)
<u><label></u>	Defines a label for an <input> element
<u><fieldset></u>	Groups related elements in a form
<u><legend></u>	Defines a caption for a <fieldset> element
<u><select></u>	Defines a drop-down list
<u><optgroup></u>	Defines a group of related options in a drop-down list
<u><option></u>	Defines an option in a drop-down list
<u><button></u>	Defines a clickable button

Sample Form HTML

`<form>`

E-mail: `<input type="text" name="email" id="email">``
`

`<input type="submit">`

`<input type="reset">`

`</form>`



The screenshot shows a Mozilla Firefox browser window with the title 'Form Example - Mozilla Firefox'. The browser's menu bar includes 'File', 'Edit', 'View', 'History', 'Bookmarks', 'Tools', and 'Help'. The address bar shows 'Form Example'. The main content area displays a form titled 'Join Our Newsletter' in a large, bold, serif font. Below the title, there is a label 'E-mail:' followed by a text input field. At the bottom of the form, there are two buttons: 'Sign Me Up!' and 'Reset'.

HTML form element

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

Input Text box

- `<input>`
- Accepts text information

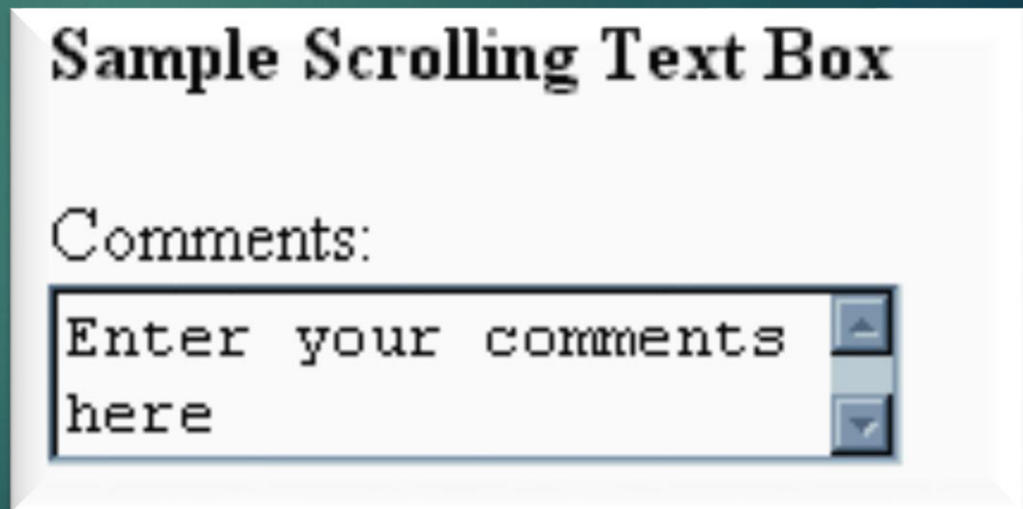
- Attributes:
 - `type="text"`
 - `name`
 - `id`
 - `size`
 - `maxlength`
 - `value`

Sample Text Box

Email:

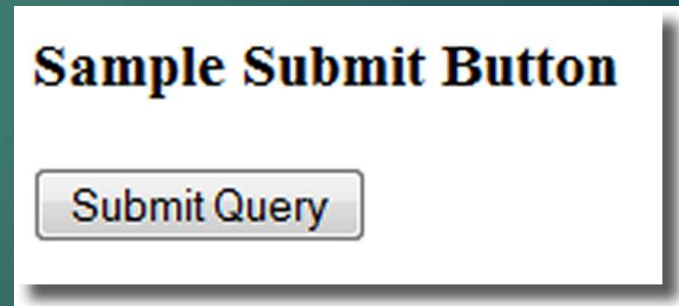
textarea Scrolling Text Box

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



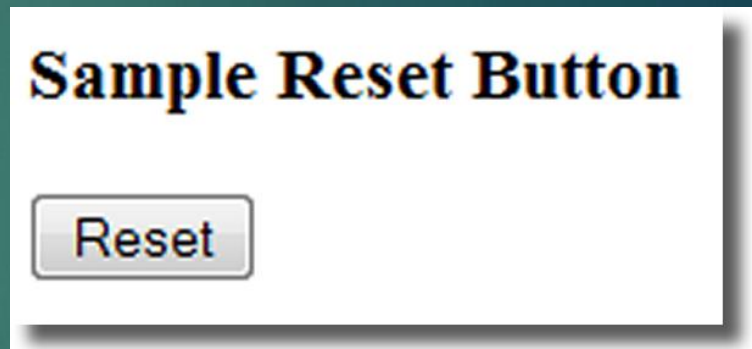
input Submit Button

- ▶ `<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`



input Reset Button

- ▶ `<input>`
- ▶ Resets the form fields to their initial values
- ▶ Attributes:
 - ▶ `type="reset"`
 - ▶ `name`
 - ▶ `id`
 - ▶ `value`



Hands-On Practice

The image shows a web browser window titled "Contact Form". The window contains a contact form with the following elements:

- Title:** Contact Form
- Header:** **Contact Us**
- Form Fields:**
 - First Name:
 - Last Name:
 - E-mail:
 - Comments:
- Buttons:** Contact, Reset