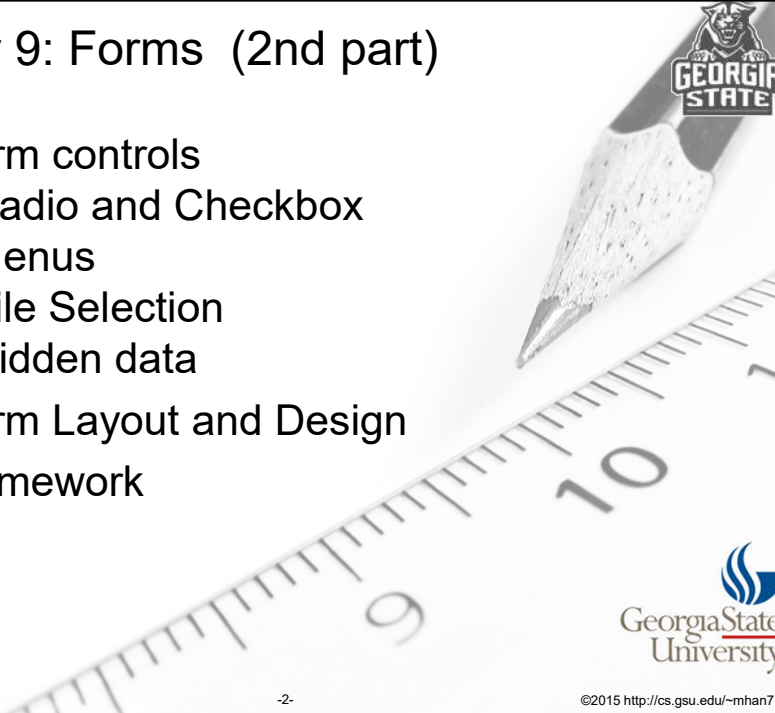# Fundamentals of Website Development
CSC 2320, Fall 2015

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The Department of Computer Science

Chapter 9: Forms (2nd part)

- Form controls
  - Radio and Checkbox
  - Menus
  - File Selection
  - Hidden data
- Form Layout and Design
- Homework

Radio and checkbox buttons

- Both checkbox and radio buttons make it simple for your visitors to choose from a number of provided options.

- A form control made up of a collection of radio buttons is appropriate when only **one option** from the group is permitted, or, in other words, when the selections are mutually exclusive.

- When checkboxes are grouped together, however, it is possible to select **as many or as few** from the group as desired.

Radio buttons	Checkbox buttons
How old are you?	What type of music do you listen to:
⦿ under 24	☑ Punk rock
○ 25 to 34	☑ Indie rock
○ 35 to 44	☐ Techno
○ 45+	☐ Rockabilly

Radio Buttons

- Radio buttons are added to a form with the **input** element with the **type** attribute set to **radio**. The **name** attribute is required. Here is the syntax for a minimal radio button:

```
<input type="radio" name="variable" />
```

- Example (Choose an age group):

```
<fieldset>
<legend>How old are you?</legend>
<ol>
  <li><label><input type="radio" name="age" value="under24"
    checked="checked" /> under 24</label></li>
  <li><label><input type="radio" name="age" value="25-34" /> 25 to 34
    </label></li>
  <li><label><input type="radio" name="age" value="35-44" /> 35 to 44
    </label></li>
  <li><label><input type="radio" name="age" value="over45" /> 45+
    </label></li>
</ol>
</fieldset>
```

Radio buttons

How old are you?
⦿ under 24
○ 25 to 34
○ 35 to 44
○ 45+

2

Checkbox Buttons

Checkboxes are added using the **input** element with its **type** set to **checkbox**.
- As with radio buttons, you create groups of checkboxes by assigning them the same **name** value.

```
<input type="checkbox" name="variable" />
```
Checkbox button

- **Example:**

```
<fieldset>
<legend>What type of music do you listen to?</legend>
<ul>
  <li><label><input type="checkbox" name="genre" value="punk"
checked="checked" /> Punk rock</label></li>
  <li><label><input type="checkbox" name="genre" value="indie"
checked="checked" /> Indie rock</label></li>
  <li><label><input type="checkbox" name="genre" value="techno"
Techno </label></li>
  <li><label><input type="checkbox" name="genre" value="rockabilly" />
Rockabilly</label></li>
</ul>
</fieldset>
```

Checkbox buttons
What type of music do you listen to:
- ☑ Punk rock
- ☑ Indie rock
- ☐ Techno
- ☐ Rockabilly

- A single checkbox also works.

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Menu

- Provides a list of choices, in a pull-down or scrolling menu, more compact than buttons or checkboxes
- Usage:

`<select>...</select>`
Menu control

`<option>...</option>`
An option within a menu

`<optgroup>...</optgroup>`
A logical grouping of options within a menu

Pull-down menus

What is your favorite 80s band?

The Cure ▾

What is your favorite 80s band?

The Cure ▾
The Cure
Cocteau Twins
Tears for Fears
Thompson Twins

Scrolling menus

What 80s bands did you listen to?

The Cure
Cocteau Twins
Tears for Fears
Thompson Twins
Everything But the Girl
Depeche Mode

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Pull-down menus

- The **select** element displays as a pull-down menu by default when no **size** is specified or if the **size** attribute is set to 1.
- Example:

```
<label for="form-fave">What is your favorite 80s band?<label>
<select name="EightiesFave" id="form-fave">
    <option>The Cure</option>
    <option>Cocteau Twins</option>
    <option>Tears for Fears</option>
    <option>Thompson Twins</option>
    <option value="EBTG">Everything But the Girl</option>
    <option>Depeche Mode</option>
    <option>The Smiths</option>
    <option>New Order</option>
</select>
```

Pull-down menus

What is your favorite 80s band?

The Cure

What is your favorite 80s band?

The Cure
The Cure
Cocteau Twins
Tears for Fears
Thompson Twins
Everything But the Girl
Depeche Mode
The Smiths
New Order

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Scrolling menus

- To make the menu display as a scrolling list, simply specify the number of lines you'd like to be visible using the **size** attribute.
- Example:

```
<label f0r="EightiesBands">What 80s bands did you listen to?</label>
<select name="EightiesBands" size="6" multiple="multiple"
f0r="EightiesBands">
    <option>The Cure</option>
    <option>Cocteau Twins</option>
    <option selected="selected">Tears for Fears</option>
    <option selected="selected">Thompson Twins</option>
    <option value="EBTG">Everything But the Girl</option>
    <option>Depeche Mode</option>
    <option>The Smiths</option>
    <option>New Order</option>
</select>
```

Scrolling menus

What 80s bands did you listen to?

The Cure
Cocteau Twins
Tears for Fears
Thompson Twins
Everything But the Girl
Depeche Mode

- The **multiple** attribute allows users to make more than one selection from the scrolling list. Also note that pull-down menus do not allow multiple selections
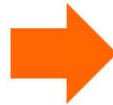
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Grouping menu options

- You can use the **optgroup** element to create conceptual groups of options. The required label attribute in the **optgroup** element provides the heading for the group.
- Example:

```
<select name="icecream" multiple="multiple">
<optgroup label="traditional">
     <option>vanilla</option>
     <option>chocolate</option>
</optgroup>
<optgroup label="fancy">
  <option>Super praline</option>
  <option>Nut surprise</option>
  <option>Candy corn</option>
</optgroup>
</select>
```

traditional
vanilla
chocolate
fancy
Super praline
Nut surprise
Candy corn

File selection control

- The file selection control makes it possible for users to select a document from the hard drive to be submitted with the form data. It is added to the form using our old friend the **input** element with its **type** set to **file**.

```
<input type="file" />
```
File selection field

- Example:

```
<form action="/client.php" method="post" enctype="multipart/form-data">
  <p><label for="form-photo">Send a photo to be used as your online icon (optional):</label><br />
  <input type="file" name="photo" size="28" id="form-photo" /></p>
</form>
```

Send a photo to be used as your online icon (optional):

Browse...

Hidden controls

- Information need to be sent together with other data, but not visible to user
- Use the **input** element with the **type** set to **hidden**. Purpose is to pass a name/value pair to the server when submitting a form.
- Example:

```
<input type="hidden" name="success-link" value="http://www.example.com/
littlechair_thankyou.html" />
```

Form Layout and Design

- Use CSS to alter the font, size, color of form labels and controls, similar to other elements

- Aligning forms is challenging

HTML Review: Forms

Element and attributes	Description
button	Generic input button
name="text"	Supplies a unique variable name for the control
value="text"	Specifies the value to be sent to the server
type="submit|reset|button"	The type of custom button
fieldset	Groups related controls and labels
form	Form element
action="url"	Location of forms processing program (required)
id="text"	Gives the form a unique name ("id reference")
method="get|post"	The method used to submit the form data
enctype="content type"	The encoding method, generally either applicati coded (default) or multipart/form-data
textarea	Multi-line text entry field
cols="number"	The width of the text area in characters
disabled="disabled"	Disables the control so it cannot be selected
name="text"	Supplies a unique variable name for the control
readonly="readonly"	Makes the control unalterable by the user
rows="number"	The height of the text area in text lines

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HTML Review: Forms

input	Creates a variety of controls, based on the type value
type="text|password|checkbox|radio|submit|reset|file|hidden|image button"	The type of input
checked="checked"	Preselects a checkbox or radio button
disabled="disabled"	Disables the control so it cannot be selected
maxlength="number"	The maximum number of characters that can be entered into a text, password, or file text field
name="text"	Supplies a unique variable name for the control
readonly="readonly"	Makes the control unalterable by the user
size="number"	The character width of a text, password, or file field
value="text"	Specifies the value to be sent to the server
label	Attaches information to controls
for="text"	Identifies the associated control by its id reference

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HTML Review: Forms

legend	Assigns a caption to a fieldset
optgroup	Defines a group of options
label="text"	Supplies label for a group of option
disabled="disabled"	Disables the option so it cannot be selected
option	An option within a select menu control
disabled="disabled"	Disables the option so it cannot be selected
label="text"	Supplies an alternate label for the option
selected="selected"	Preselects the option
value="text"	Supplies an alternate value for the option
select	Pull-down menu or scrolling list
disabled="disabled"	Disables the control so it cannot be selected
multiple="multiple"	Allows multiple selctions in a scrolling list
name="text"	Supplies a unique variable name for the control
readonly="readonly"	Makes the control unalterable by the user
size="number"	The height of the scrolling list in text lines

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Homework

- Reading through Chapter 9
- Assignment 3:
  - Finish exercise 9-1 on page 159-160
  - Name your html file: assignment3.html
  - **Due date, Wednesday, Oct 7th .**
  - Don't forget include your images or others if you used them in your html codes packages
  - Send to TA by email as a LastNameFirstName_AS3.zip package

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