HTML Forms



- Semantic Elements
- HTML Form
- Form elements

Semantic Elements

What are Semantic Elements?

- A semantic element clearly describes its meaning to both the browser and the developer.
- Examples of non-semantic elements: <div> and Tells nothing about its content.
- Examples of semantic elements: <form>,
 , and Clearly defines its content.
- <p
- □ <footer>
- □ <nav>
- @ etc.

Elements

- <fi><fieldset> tag is used to group related elements in a form.
- <legend> tag defines a caption for the <fieldset> element.
- <label> tag defines a label for an <input> element.
- <select> element is used to create a drop-down list.
 - <optgroup> is used to group related options in a drop-down list.
 - <option> tags inside the <select> element define the available options in the list.

HTML Form

- An HTML form can contain input elements like text fields, checkboxes, radio-buttons, submit buttons and more. A form can also contain select lists, textarea, fieldset, legend, and label elements.
- The <form> tag is used to create an HTML form: <form>

input elements

</form>

- The <input> element is used to select user information.
- An <input> element can vary in many ways, depending on the type attribute. An <input> element can be of type text field, checkbox, password, radio button, submit button, and more.

The <form> tag

- The <form arguments> ... </form> tag encloses form elements (and probably other elements as well)
- The arguments to form tell what to do with the user input
 - action="url" (required)
 - Specifies where to send the data when the Submit button is clicked
 - method="get" (default)
 - Form data is sent as a URL with ?form_data info appended to the end
 - Can be used only if data is all ASCII and not more than 100 characters
 - method="post"
 - Form data is sent in the body of the URL request
 - Cannot be bookmarked by most browsers
 - target="target"
 - Tells where to open the page sent as a result of the request
 - target= _blank means open in a new window
 - target= _top means use the same window

The <input> tag

- Most, but not all, form elements use the input tag, with a type="..." argument to tell which kind of element it is
 - type can be text, checkbox, radio, password, hidden, submit, reset, button, file, or image
- Other common input tag arguments include:
 - name: the name of the element
 - id: a unique identifier for the element
 - value: the "value" of the element; used in different ways for different values of type
 - readonly: the value cannot be changed
 - disabled: the user can't do anything with this element
 - Other arguments are defined for the input tag but have meaning only for certain values of type



A text field: <input typ

<input type="text" name="textfield" value="with an initial value" />

A text field: with an initial value

A multi-line text field Hello/textarea>

A multi-line text field

Hello

A password field:

<input type="password" name="textfield3" value="secret" />

A password field:

• Note that two of these use the input tag, but one uses textarea

Buttons

- A submit button: Submit
- A reset button: Reset
- A plain button: Push Me

- submit: send data
- reset: restore all form elements to their initial state
- button: take some action as specified by JavaScript
- Note that the type is input, not "button"

The <button> Element

The <button> element defines a clickable button:

<button type="button" onclick="alert('Hello
World!')"> Click me! </button>

The result:

Click Me!

Radio buttons

```
Radio buttons:<br/>
<input type="radio" name="radiobutton" value="myValue1" />
male<br/>
<input type="radio" name="radiobutton" value="myValue2"
checked="checked" />female
```

Radio buttons:

- O male
- female
- If two or more radio buttons have the same name, the user can only select one of them at a time
 - This is how you make a radio button "group"
- If you ask for the value of that name, you will get the value specified for the selected radio button
- As with checkboxes, radio buttons do not contain any text

Labels

- In many cases, the labels for controls are not part of the control
 - <input type="radio" name="gender" value="m" />male
 - In this case, clicking on the word "male" has no effect
- A label tag will bind the text to the control
 - <label><input type="radio" name="gender" value="m" />male</label>
 - Clicking on the word "male" now clicks the radio button
- w3schools says that you should use the for attribute:
 - <label for="lname">Last Name:</label>
 <input type="text" name="lastname" id="lname" />
 - In my testing (Firefox and Opera), this isn't necessary, but it may be for some browsers
- Labels also help page readers read the page correctly
- Some browsers may render labels differently

Checkboxes

A checkbox:

```
<input type="checkbox" name="checkbox"
     value="checkbox" checked="checked">
```

A checkbox: 🗹

- type: "checkbox"
- name: used to reference this form element from JavaScript
- value: value to be returned when element is checked
- Note that there is no text associated with the checkbox
 - Unless you use a label tag, only clicking on the box itself has any effect

Drop-down menu or list

A menu or list:

```
<select name="select">
     <option value="red">red</option>
     <option value="green">green</option>
     <option value="BLUE">blue</option>
</select>
```

A menu or list: red 💠

- Additional arguments:
 - size: the number of items visible in the list (default is "1")
 - multiple
 - if set to "true" (or just about anything else), any number of items may be selected
 - if omitted, only one item may be selected
 - if set to "false", behavior depends on the particular browser

Hidden fields

<input type="hidden" name="hiddenField" value="nyah"> <-- right there, don't you see it?

A hidden field: <-- right there, don't you see it?

- What good is this?
 - All input fields are sent back to the server, including hidden fields
 - This is a way to include information that the user doesn't need to see (or that you don't want her to see)
 - The value of a hidden field can be set programmatically (by JavaScript)
 before the form is submitted

A complete example

```
<html>
<head>
<title>Get Identity</title>
<meta http-equiv="Content-Type" content="text/html;</pre>
      charset=iso-8859-1">
</head>
                                      Who are you?
<body>
<b>Who are you?</b>
                                      Name: |
<form method="post" action="">
 Name:
                                       Gender: 

Male 

Female
  <input type="text" name="textfield">
 Gender:
  <label><input type="radio" name="gender" value="m" />Male<label>
  <label><input type="radio" name="gender" value="f" />Female</label>
 </form>
</body>
</html>
```

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Thank you for your attention!