HTML5 and CSS3, Chapter 7

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Source code from book

http://www.aharrisbooks.net/haio/

Forms

- Forms are used to provide input from the user.
- ▶ This section of the book shows how to build forms.
- ▶ In order to *do* something with the data, we need a programming language.
- ▶ In Part IV we use Javascript on the client to do something.
- ▶ in Part V we use PHP on the server to do something.
- Consider this part a reference for later.

Types of forms

- Text boxes
- Password boxes
- ► Text areas
- Select lists
- Check boxes
- Radio buttons
- Buttons
- Labels
- Fieldsets and legends

Basic elements of a form

```
<h1>A basic form</h1>
<form action = "">
  <h2>Form elements go here</h2>
  <h3>Other HTML is fine, too.</h3>
  >
    <input type = "text"</pre>
        value = "googoo" />
 </form>
>
  Note this code is slightly improved from book
 version. I've placed the input
  element inside the form
 tag. Thanks to Jim for the catch!
```

Organizing a form with fieldsets

```
<h1>Sample Form with a Fieldset</h1>
<form action = "">
 <fieldset>
   <legend>Personal Data</legend>
   >
     <label>Name</label>
     <input type = "text" />
   >
     <label>Address</label>
     <input type = "text" />
   <q>>
     <label>Phone</label>
     <input type = "text" />
   </fieldset>
</form>
```

Fieldsets

- ▶ Not necessary, but group parts of a form.
- Legend identifies the entire form.
- Label identifies each input form.
- Can use paragraphs to group labels and inputs.
- ► Label tag can have a for attribute to connect with a specific input.

A standard text form

```
<form action = "">

        <label>Name</label>
        <input type = "text"
            id = "txtName"
            value = "Jonas"/>

</form>
```

Text form attributes

- type: determines the general type of input.
 - text
 - password
 - etc.
- id: when we deal with the data, the program has to know the name (identifier) of the data.
- value: default value.
- size: number of characters displayed.
- maxlength: largest number of characters allowed.

Password

```
<fieldset>
    <legend>Enter a password</legend>

        <label>Type password here</label>
        <input type = "password"
            id = "pwd"
                value = "secret" />

        </fieldset>
```

- Replaces visible text characters with asterisks.
- Provices no security except for people looking over your shoulder.
- SSL (Secure Socket Layer) provides real security.

Multi-line text input

```
>
 <label>
   Please enter the sum total of
    Western thought. Be brief.
 </label>
>
 <textarea id = "txtAnswer"</pre>
           rows = "10"
            cols = "40"></textarea>
```

- ▶ It needs an id
- Specify the size with rows and cols.
- ▶ The content goes between the tags.
- Whitespace between the tags goes in the output.



Drop-down selections

```
<label>What is your favorite color?</label>
<select id = "selColor">
 <option value = "#ff0000">Red</option>
 <option value = "#00ff00">Green</option>
 <option value = "#0000ff">Blue</option>
 <option value = "#00ffff">Cyan</option>
 <option value = "#ff00ff">Magenta</option>
 <option value = "#ffff00">Yellow</option>
 <option value = "#000000">Black</option>
  <option value = "#ffffff">White</option>
</select>
```

- Saves screen space.
- Limits input.
- ▶ The value can be different from what the user sees.



Check boxes

```
>
  <input type = "checkbox"</pre>
         id = "chkPeace"
         value = "peace" />
  World peace
>
  <input type = "checkbox"</pre>
         id = "chkHarmony"
         value = "harmony" />
  Harmony and brotherhood
>
  <input type = "checkbox"</pre>
         id = "chkCash"
         value = "cash" />
  Cash
4□ > 4□ > 4 = > 4 = > = | 900
```

This all seems inconsistent

- Forms are inconsistent:
 - Sometimes the value of a form element is visible to the users, sometimes not.
 - Sometimes the text the user sees is inside the tag, sometimes not.
- The standards for HTML evolved over time.
- It's difficult to change a pattern that has thousands or millions of uses.
- It's best to consult an example any time you have to use one of thses.

Radio buttons

```
<input type = "radio"</pre>
>
              name = "radPrice"
              id = "rad100"
              value = "100" />Too much
                                              <input type = "radio"</pre>
>
              name = "radPrice"
              id = "rad200"
              value = "200" />Way too much
                                             <input type = "radio"</pre>
>
              name = "radPrice"
              id = "rad5000"
              value = "5000"
              checked = "checked" />
       You've got to be kidding.
```

Radio buttons

- Only one can be checked at a time.
- They have to be in a group.
- ▶ They have to be the same name!
 - This creates the group.
- ▶ You can have more than one group, just use different names.
- ▶ One of them has to be checked.

Other buttons

```
<legend>
    input-style buttons
  </legend>
  <input type = "button"</pre>
         value = "input type = button" />
  <input type = "submit" />
  <input type = "reset" />
</fieldset>
<fieldset>
  <legend>button tag buttons</legend>
  <button type = "button">
    button tag
  </button>
  <br/>button>
    <img src = "clickMe.gif"</pre>
         alt = "click me" />
  </button>
```

Button tags vs. button attributes

- ▶ The type determines the style.
- ▶ The caption goes in the block.
- You can incorporate other elements.

New form input types

- ▶ date
- ▶ time
- datetime
- datetime-local
- week
- ▶ month
- color
- number
- range
- search
- email
- ▶ tel
- ▶ url