

Reading/writing an entire file

URL?name=value&name=value...

http://example.com/student_login.php?username=xenia&sid=12
34567

- query string: a set of parameters passed from a browser to a web server
 - often passed by placing name/value pairs at the end of a URL
- □ PHP code on the server can examine and utilize the value of parameters

Web Data

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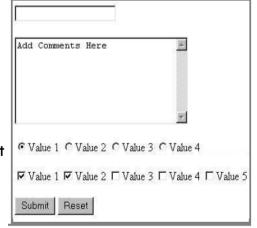
- Most interesting web pages revolve around data
 - examples: Google, IMDB, Digg, Facebook, YouTube, Rotten Tomatoes
 - can take many formats: text, HTML, XML, multimedia
- □ Many of them allow us to access their data
- □ Some even allow us to submit our own new data
- Most server-side web programs accept parameters that guide their execution

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HTML forms

- form: a group of UI controls that accepts information from the user and sends the information to a web server
- the information is sent to the server as a query string

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HTML form: <form>

```
<form action="destination URL">
  form controls
</form>
HTML
```

- required action attribute gives the URL of the page that will process this form's data
- when form has been filled out and **submitted**, its data will be sent to the action's URL

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7 Form controls

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Form example

 Wrap the form's controls in a block element such as div

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Form controls: <input>

```
<!-- 'q' happens to be the name of Google's required
parameter -->
<input type="text" name="q" value="Colbert Report" />
<input type="submit" value="Booyah!" />

Colbert Report

Booyah!

input element is used to create many UI controls
 an inline element that MUST be self-closed

name attribute specifies name of query parameter to pass to server
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```

Form controls: <input> (cont.)

```
<!-- 'q' happens to be the name of Google's required
parameter -->
<input type="text" name="q" value="Colbert Report" />
<input type="submit" value="Booyah!" />
HTML
Colbert Report

Booyah!
```

- type can be button, checkbox, file, hidden, password, radio, reset, submit, text, ...
- value attribute specifies control's initial text

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Text boxes: <textarea>

```
<textarea rows="4" cols="20">
Type your comments here.
</textarea>

HTML

Type your comments
here.
```

- □ initial text is placed inside textarea tag (optional)
- required rows and cols attributes specify height/width in characters
- optional read only attribute means text cannot be modified

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Text fields: <input>

```
cinput type="text" size="10" maxlength="8" /> NetID <br/>cinput type="password" size="16" /> Password
cinput type="submit" value="Log In" />
HTML
```



- □ input attributes: disabled, maxlength, readonly, size, value
- □ size attribute controls onscreen width of text field
- maxlength limits how many characters user is able to type into field

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Check boxes: <input>

□ none, 1, or many checkboxes can be checked at same time

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Radio buttons: <input>

- grouped by name attribute (only one can be checked at a time)
- must specify a value for each one or else it will be sent as value on

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Drop down lists: <select>,

<option>

<select name="favoritecharacter">
 <option>Frodo</option>
 <option>Bilbo</option>
 <option selected="selected">Gandalf</option>
 <option>Galandriel</option>
 </select>
HTML

- □ option element represents each choice
- select optional attributes: disabled, multiple, size
- optional selected attribute sets which one is initially chosen

Text labels: <1 abe1>

<label><input type="radio" name="cc" value="visa"
 checked="checked" /> Visa</label>
 <label><input type="radio" name="cc" value="mastercard" />
 MasterCard</label>
 <label><input type="radio" name="cc" value="amex" />
 American Express</label>
 HTML

- associates nearby text with control, so you can click text to activate control
- a can be used with checkboxes or radio buttons
- □ label element can be targeted by CSS style rules

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Using: <select> for lists

- optional multiple attribute allows selecting multiple items with shift- or ctrl-click
- must declare parameter's name with [] if you allow multiple selections
- option tags can be set to be initially selected

Option groups: <optgroup>

□ What should we do if we don't like the bold italic?

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