Announcements

- Project due date
  - Project 2A due Wednesday at 10pm
  - 1-1-1 rule by Thursday night at 10pm
- Extra credit due dates
  - Labs 8/9: Friday night at 10pm
  - Living Computer Museum
    - New quiz for anyone who got lost on the way to the museum—15 extra credit points
    - Only for students who registered for the tour

Extra credit due dates

Labs 8/9: Friday night at 10pm
Living Computer Museum

New quiz for anyone who got lost on the way to the museum—15 extra credit points
Only for students who registered for the tour

11/16/2009
D.A. Clements, MLIS, UW Information School

Objectives

- Set up a form with HTML
  - Add form inputs:
    - Text fields
    - Radio buttons
    - Check boxes
    - Select menus
    - Submit buttons
- Add JavaScript
  - Event Handlers

A short form: Movie Picker

```
<form id="picker" method="post" action="">
  <p>
    <label for="movie">Enter movie name:</label>
    <input type="text" name="movie" id="movie" />
  </p>
  
  <p>
    Choose movie format:
    <input type="radio" name="format" id="dvd" value="dvd" />
    <label for="dvd">DVD</label>
    <input type="radio" name="format" id="vhs" value="vhs" />
    <label for="vhs">VHS</label>
  </p>

  <input type="button" name="cart" id="cart" value="Add to cart" />
</form>
```

Test the Movie Picker form

- The form pops up but won't really do anything because
  - It's the pure HTML
  - No client-side or server-side scripts to put data into a database or manipulate it in any way

11/16/2009
D.A. Clements, MLIS, UW Information School
A short form: Markup

```html
<form id="picker" method="post" action="">
  <p>
    <label for="movie">Enter movie name:</label>
    <input type="text" name="movie" id="movie" />
  </p>
  <p>
    Choose movie format:
    <input type="radio" name="format" id="dvd" value="dvd" />
    <label for="dvd">DVD</label>
    &nbsp;<input type="radio" name="format" id="vhs" value="vhs" />
    <label for="vhs">VHS</label>
  </p>
  <input type="button" name="cart" id="cart" value="Add to cart" />
</form>
```

Form tags

```html
<form id="picker" method="post" action="#">
  <p>
    <label for="movie">Enter movie name:</label>
    <input type="text" name="movie" id="movie" />
  </p>
  <p>
    Choose movie format:
    <input type="radio" name="format" id="dvd" value="dvd" />
    <label for="dvd">DVD</label>
    &nbsp;<input type="radio" name="format" id="vhs" value="vhs" />
    <label for="vhs">VHS</label>
  </p>
  <input type="button" name="cart" id="cart" value="Add to cart" />
</form>
```

Input tags

```html
<form id="picker" method="post" action="#">
  <p>
    <label for="movie">Enter movie name:</label>
    <input type="text" name="movie" id="movie" />
  </p>
  <p>
    Choose movie format:
    <input type="radio" name="format" id="dvd" value="dvd" />
    <label for="dvd">DVD</label>
    &nbsp;<input type="radio" name="format" id="vhs" value="vhs" />
    <label for="vhs">VHS</label>
  </p>
  <input type="button" name="cart" id="cart" value="Add to cart" />
</form>
```

Inputs and Labels

```html
<form id="picker" method="post" action="#">
  <p>
    <label for="movie">Enter movie name:</label>
    <input type="text" name="movie" id="movie" />
  </p>
  <p>
    Choose movie format:
    <input type="radio" name="format" id="dvd" value="dvd" />
    <label for="dvd">DVD</label>
    &nbsp;<input type="radio" name="format" id="vhs" value="vhs" />
    <label for="vhs">VHS</label>
  </p>
  <input type="button" name="cart" id="cart" value="Add to cart" />
</form>
```
Button inputs

<!-- HTML code for the movie picker form -->

Select boxes

<!-- HTML code for the select boxes form -->

Submit buttons

<!-- HTML code for the submit buttons form -->

Submit buttons and form tags

<!-- HTML code for the submit buttons and form tags form -->

Events Cause Processing

<!-- HTML code for the event processing example -->

Test the Smileys form

<!-- HTML code for the test smileys form -->
Emoticons = Emotional Icons

:-)  Smile or Happy  :-p  "Raspberry" or 'tongue in cheek'
:-O  Frown or Sad  :-/  Doubtful or confused
:-D  Laughter  :-(  Frown or Sad
:-C  Very, very sad  :|  Blank
D:-  Annoyed, scared  O:O:O  Surprised or shocked

Asian Emoticons

(^_^)  Laughing  (???)  Joyful
(>_<)>  Troubled  (???)  Surprised
(^_~)  Troubled  (#^#)  Shy
(ToT)  Crying  ("^"^)  Infatuation
m(___)m  Apologising  (??;)  Worried
(^^;)  Shy  (^^^^)  Joyful
(???)  Grinning  (^??)  Laughing

Asian Emoticons

(^_~)  Laughing  (???)  Joyful
(>_<)>  Troubled  (??;)  Surprised
(^_~)  Troubled  (#^#)  Shy
(ToT)  Crying  ("^"^)  Infatuation
m(___)m  Apologising  (??;)  Worried
(^^;)  Shy  (^^^^)  Joyful
(???)  Grinning  (^??)  Laughing

Asian Emoticons

(^_~)  Laughing  (???)  Joyful
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(^_~)  Troubled  (#^#)  Shy
(ToT)  Crying  ("^"^)  Infatuation
m(___)m  Apologising  (??;)  Worried
(^^;)  Shy  (^^^^)  Joyful
(???)  Grinning  (^??)  Laughing

Try the Viking Names form

- Another form powered by JavaScript
Summary

- Set up a form with HTML
  - Add form inputs:
    - Text fields
    - Radio buttons
    - Check boxes
    - Select menus
    - Submit buttons
- Add JavaScript
  - Event Handlers

Objectives

- Understand how a larger project is built from the basic programming concepts
- Understand how to declare multiple functions
- Understand how to call functions from:
  - Event handlers
  - Other functions

Passing Values to Functions

- Definition syntax
  
```javascript
function name(param) {
    //statement body
    x = x * param;
}
```

- Call syntax
  
```javascript
onclick="name(argument)"
```