

IS 337

Quiz #7

Fall 2008

Name: _____

20 points

Open book, open Internet, closed people

Read these instructions. They're different from other quizzes!

You are expected to work on this quiz by yourself. You *can* consult written and on-line materials, just not any human being except for me.

Submit your files through KnightVision. (See the last question of the quiz.)

There's no need for a fancy Apache server with PHP. *Do this work on your own machine in your own account; do not go through a public server.*

Finish the quiz before 12:00n on Thursday, December 18.

You will be writing JavaScript and some CSS to manipulate a list of items from my Urlacher Shop.

1. [1 point] Get prepared.

- (a) Get the file `items.html` from `/home/jdfrens/quiz7/` on yardley.
- (b) You will need your own copy of `prototype.js`.
- (c) Create a `quiz7.css` file.
- (d) Create a `quiz7.js` file.

Open `items.html`, and make sure you can see a list of items from the Urlacher shop.

2. [5 points] Your client wants to alternate colors on the items in the list, and for some reason this *must* be done with JavaScript when the page is finally loaded. Write the necessary JavaScript to accomplish this.

- (a) Use the `setStyle()` method on the list item elements.
- (b) Pick the colors you want.
- (c) Remember: Prototype supports CSS 3, so picking every other list item is *really* easy if you know (or look up) the right incantation.
- (d) Use two separate loops, one for each color.

3. [6 points] Your client has decided that while alternating colors is cool, he'd like to change some other properties as well. You convince your client that using a CSS class would give him more flexibility (and put the physical formatting into the CSS where it belongs).

- (a) *Leave the alternating colors from the previous question in place (as evil as that might be).*
- (b) Define two CSS classes in the CSS file. For each class, set at least two properties other than the background color. Make sure the settings are different from the default and from each other!
- (c) Use `addClassName()` on the list-item elements to add classes to alternating list items.

4. [7 points] The “Search!” button is not part of a form and is a true `button` (instead of a `submit` or `reset` input); hence, it does nothing when you press it. Your client wants this button to highlight the items that match the search term.
- (a) Define a CSS class `highlight` which sets at least one property not set by any JavaScript or CSS that you’ve written so far.
 - (b) On the document load, observe the “Search!” button on a `click` event to trigger the highlighting search.
 - (c) The highlighting search should iterate through the list items.
 - (d) For each of the list items, see if the text in the *anchor tag* of the list item “includes” (see `String.include()`) the text from the text field. If so, add the CSS class `highlight`; *if not, remove* the class `highlight`.
 - (e) Scenarios to test:
 - Jersey
 - poster
 - Poster (no results because it’s case sensitive)
 - mansion (no results because it’s not on the list)
 - yardley (no results)
 - Two or three searches run in a row; make sure previous highlights are undone.
5. [1 point] Submit `quiz7.js` and `quiz7.css` through KnightVision. I will provide the HTML file and Prototype when I grade the assignments.