

CMSI 370

INTERACTION DESIGN

Fall 2009

Assignment 1110

This assignment “re-enacts” work that is similar to what has been published in the two research papers that were given out the other day.

Not for Submission

By November 3

1. Read the menu research papers that were given out in class.
2. Check out *samplecode/menus* from your respective *homework/cmsi370* repositories and get started on the assignment.

For Submission

You should each find *samplecode/menus* in your respective *homework/cmsi370* repositories.

Menu Selection Experiment

Use *menus* to conduct an efficiency and error rate experiment among three menu styles: pull-down menus from an arbitrary location, pull-down menus from the top of the screen, and pop-up menus at or near the current mouse location.

Perform a series of menu selection tests using *menus*, gather the resulting data, and draw a conclusion about the relative efficiency and error rates of the three types of menus. A sample menu setup is included, but do feel free to change that menu to your liking (or even to test different menu fixtures).

Work on this as a group, and involve as many people as are willing to participate. Commit the data and your analysis of the data to version control.

Implementation Note As written, pull-down menus from the top of the screen can only be achieved by running *menus* on Mac OS X, with the *apple.laf.useScreenMenuBar* system property set to true (i.e., `java -Dapple.laf.useScreenMenuBar=true ...`) or any other property-setting mechanism.

How to Turn It In

Commit the results of your menu selection experiment as LaTeX source on one of your repositories (tell me which one), under *homework/cmsi370/menu-report*.