CMSI 370
INTERACTION DESIGN
Fall 2009

Final Review Sheet

The final exam will take place on Thursday, December 17, at 11am. It will be open book, notes, handouts, and computer — so we'll have it at the Keck lab. You can use one computer, either your own laptop or one of the Keck workstations.

Covered Material

The final covers the entire semester, including all handouts and sample code that have been distributed; in addition to the covered material from the midterm (see the Midterm Review Sheet for that), we also have:

- Chapters 6 and 7, and an overview knowledge of Chapters 8 and 9, in Shneiderman/Plaisant
- Chapter 4 in Norman
- Menu research papers
- Norman's articles on physicality and the command line as "the next UI breakthroughs"
- Direct manipulation implementation

Sample Tasks and Questions

The following represent the types of questions or tasks that you may be asked to accomplish (in addition to those listed in the Midterm Review Sheet):

- Given a proposed application, choose and justify the most appropriate interaction style/paradigm for that application
- Given two alternative user interfaces based on the same interaction style/paradigm for the same application, state which user interface is more effective and why
- Assess the quality of a menu-driven user interface based on the guidelines and principles for creating effective menus, forms, and dialogs
- Assess the quality of a direct manipulation user interface based on the guidelines and principles for creating effective direct manipulation designs
- Given some Swing or dynamic HTML code, evaluate its design based on its reusability and separation of concerns (MVC, etc.)
- Break down a user action (drag-and-drop, text field manipulation, button tracking, etc.) into a sequence of low-level input events
- Identify bugs or potential issues in some given fragment of Swing or dynamic HTML code
- Identify, describe, or compare the similarities or differences between the Swing and dynamic HTML user interface frameworks
- Answer a conceptual or simple analytic question regarding the command line and/or natural language interaction styles