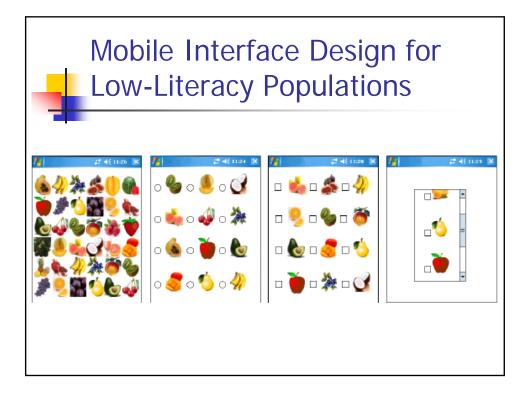
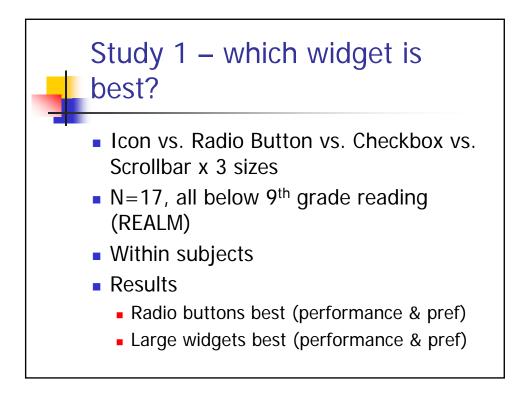


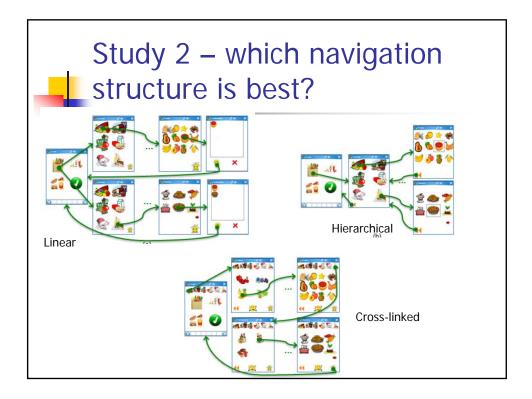




- Mobile Interface Design for Low-Literacy Populations
- Multi-Layered Interfaces to Improve Older Adults' Initial Learnability of Mobile Applications
- Kind of study?
- Methodology?
- Main findings?

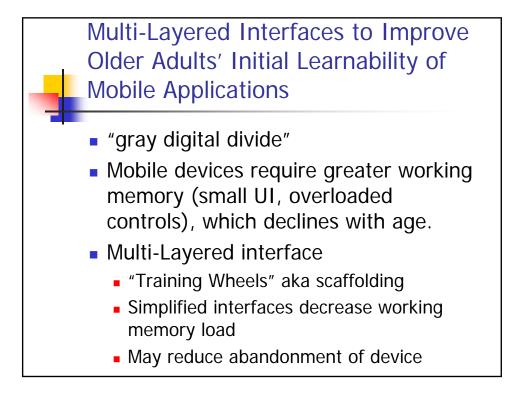


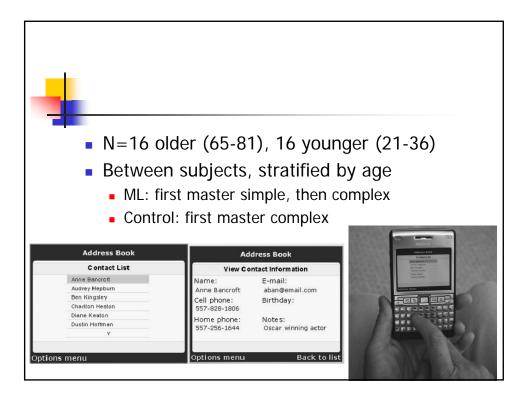


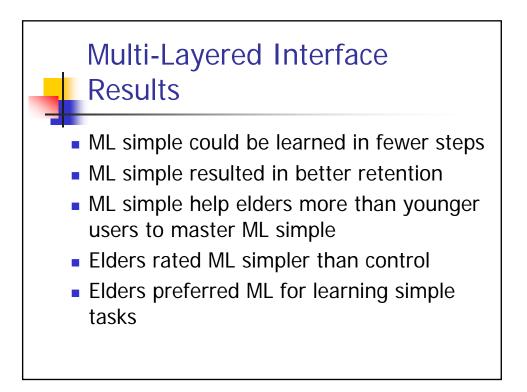


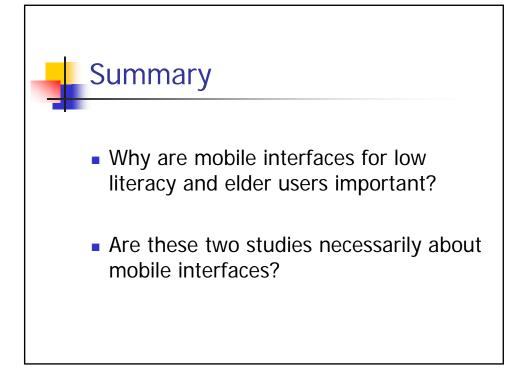


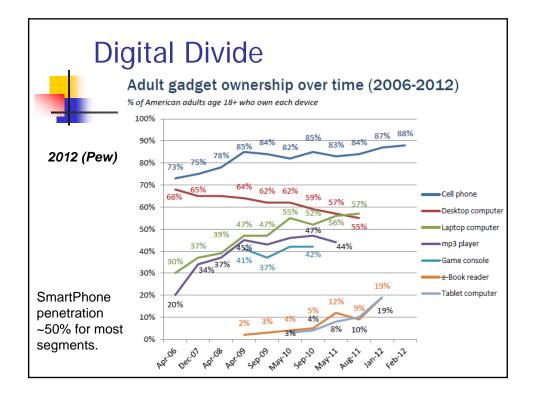
- N=19, low lit
- Users first trained on each interface
- Task = selecting a set of food items
- Results:
  - Linear is best (most tasks completed, most completed without error, recovered faster)
  - But preferred cross-linked
  - Depth of 5, breadth 5-10 best (fewest errors)
  - Always provide BACK and HOME buttons

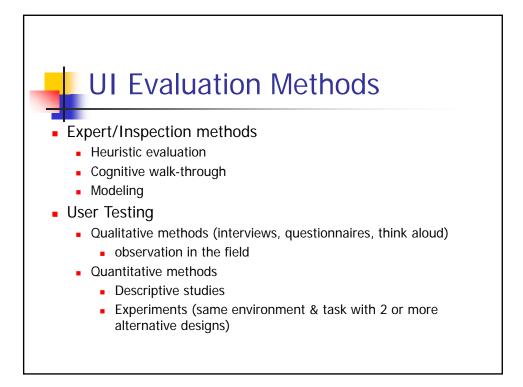


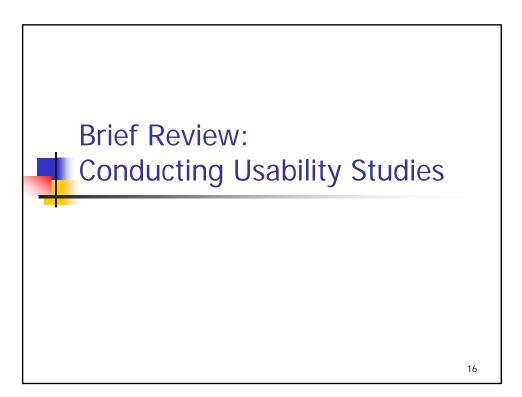


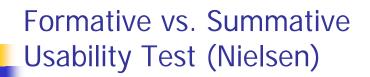




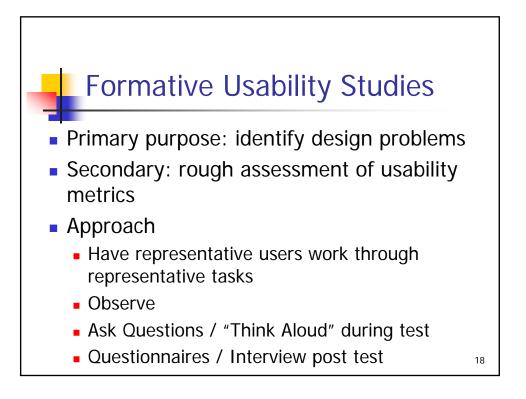


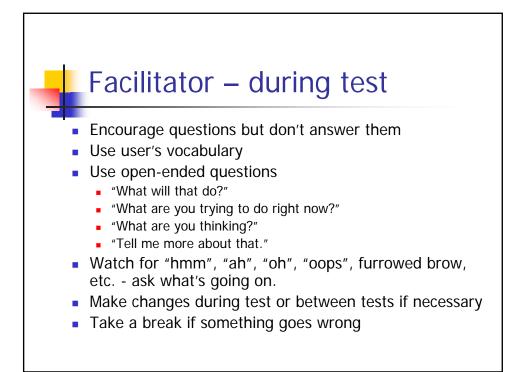


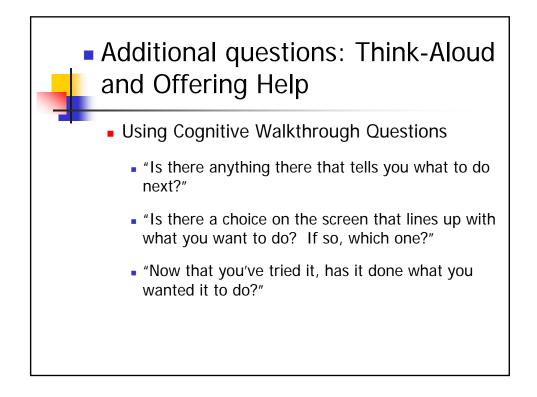




- Formative
  - Informs design in progress
  - What aspects of design are good/bad?
  - E.g., "think aloud" study
- Summative
  - Characterize a finished product, overall quality of an interface
  - E.g., comparative evaluation experiment

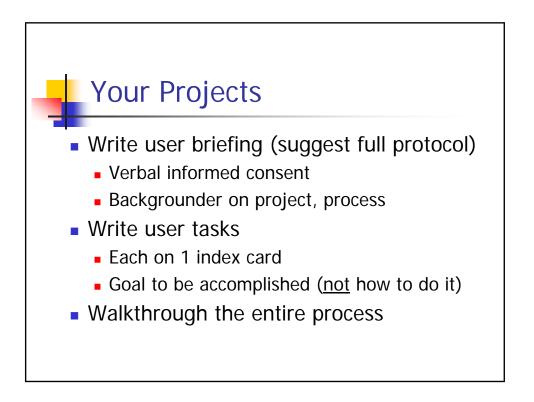


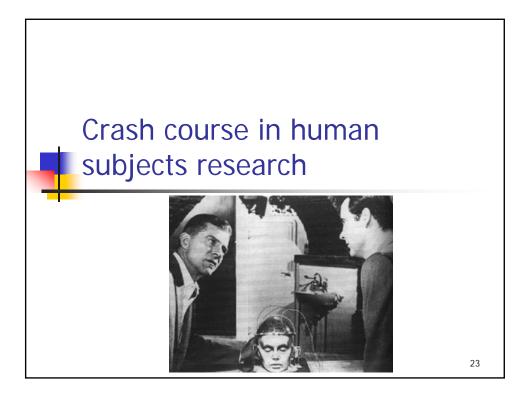


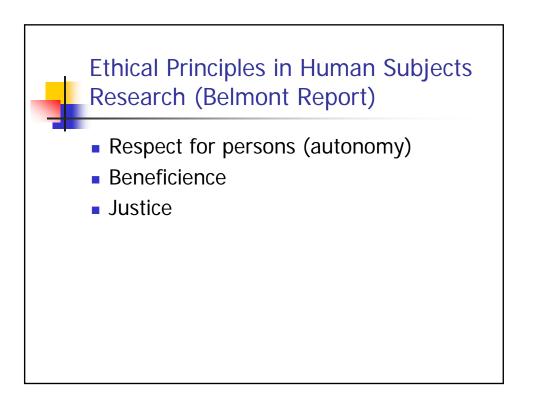




- Spend a few minutes immediately after the test meeting with the testing team, discussing results, clarifying problems, and writing down prioritized problems.
- Correct significant problems that can be fixed before the next test.

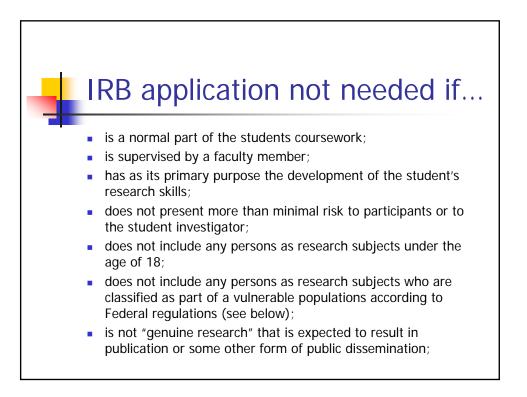






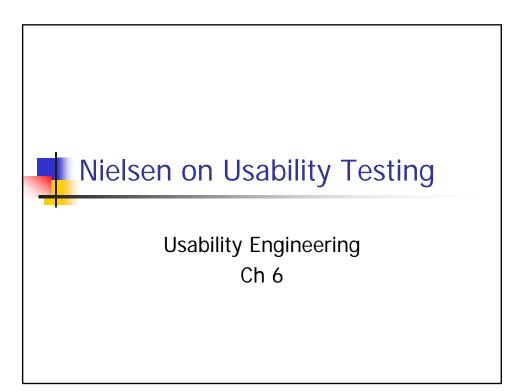
12

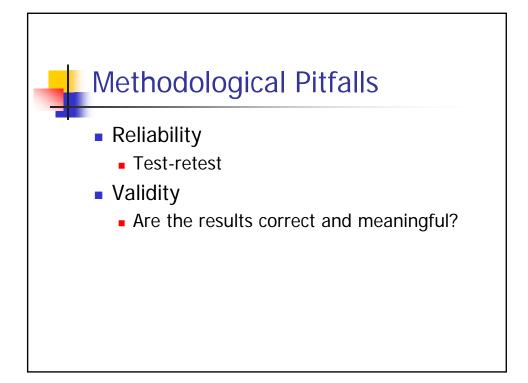


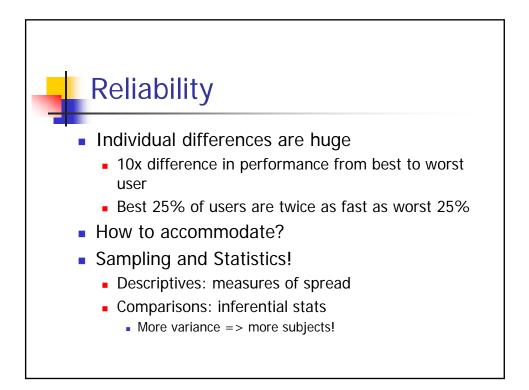


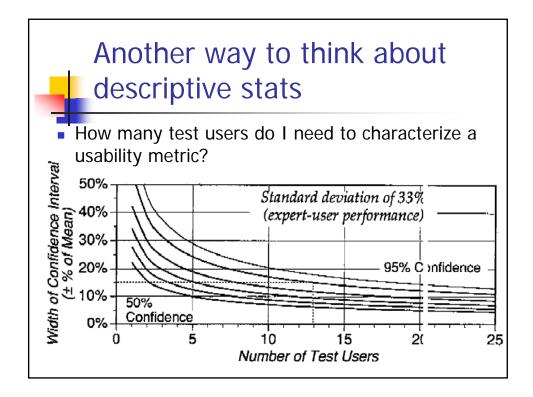
## You should obtain verbal consent – Example:

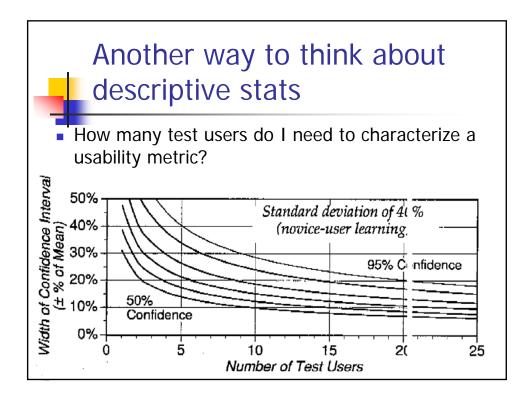
"Hi, we're designing a *XYZ. Explanation of XYZ.* We are conducting a study to find out what people think about this. We will not record or publish any information with your name. This is for a course we're taking in Human-Computer Interaction from Prof. Bickmore in the College of Computer and Information Science. Your participation is voluntary and you can stop anytime and ask that your data not be used. It should take about 30 minutes and we will compensate you with a can of Red Bull. Can you help us out with this?"

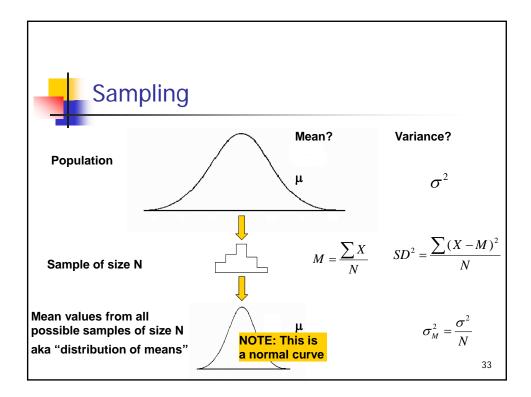


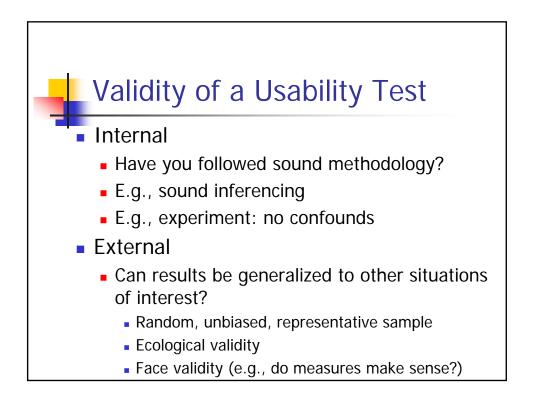


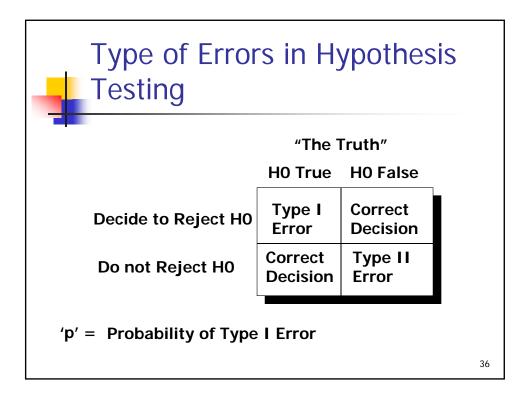


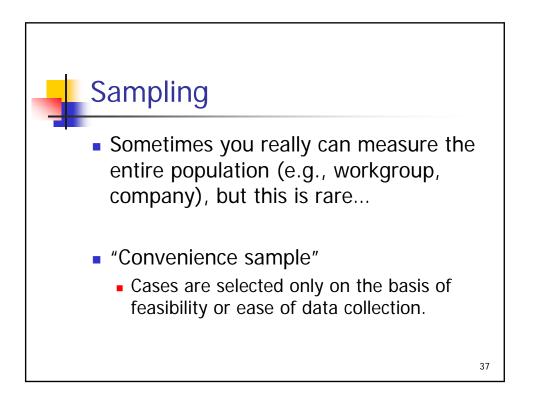


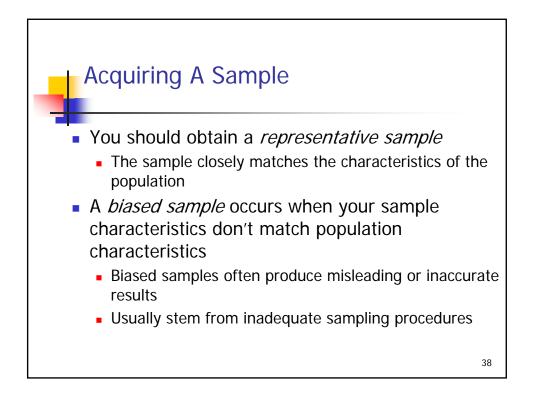


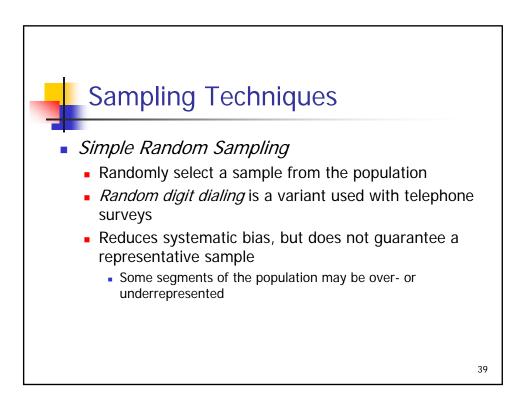


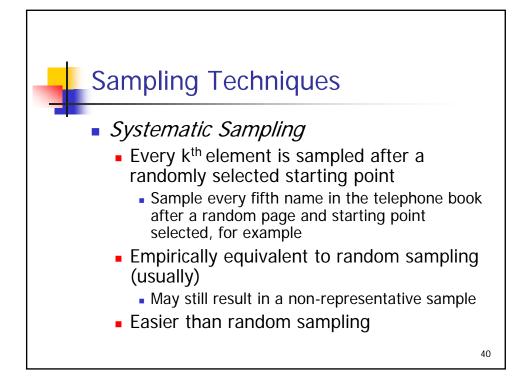


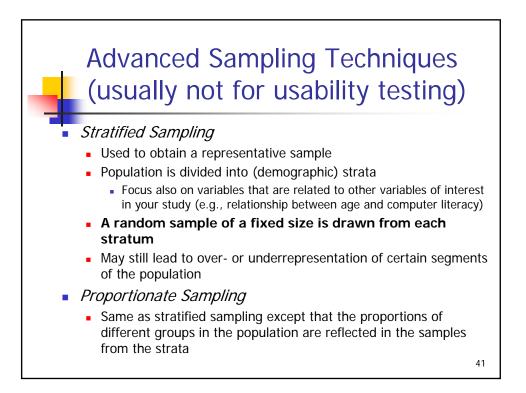


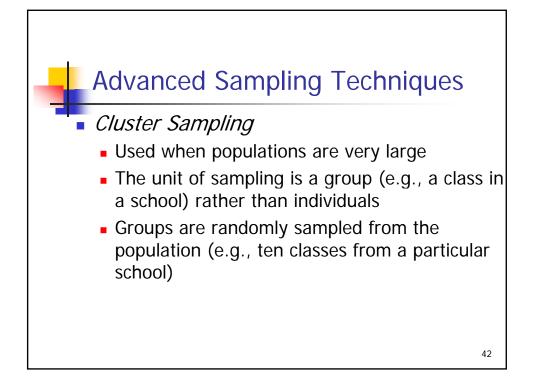


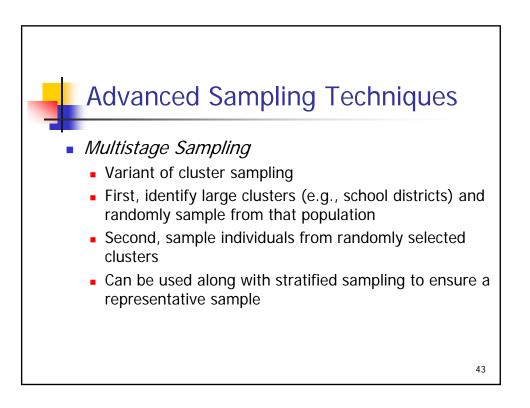


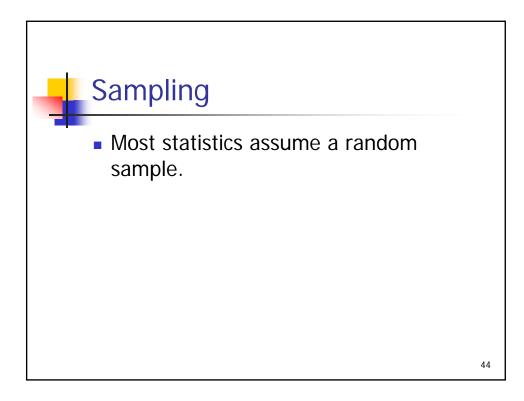


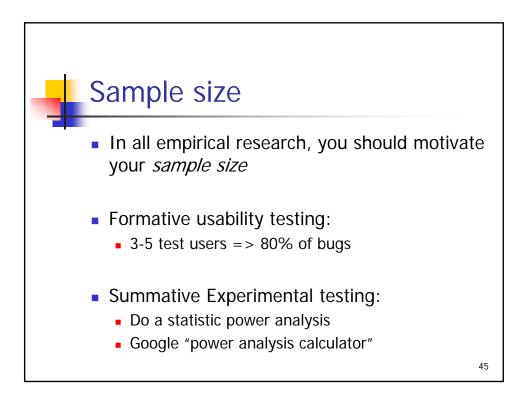


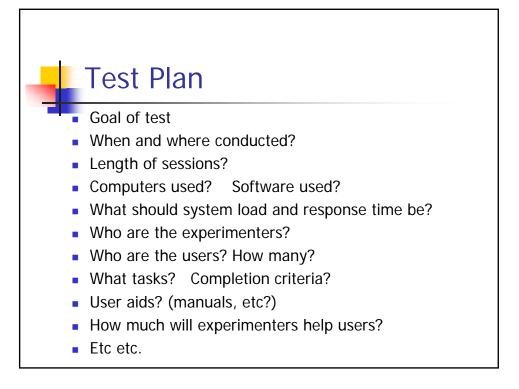


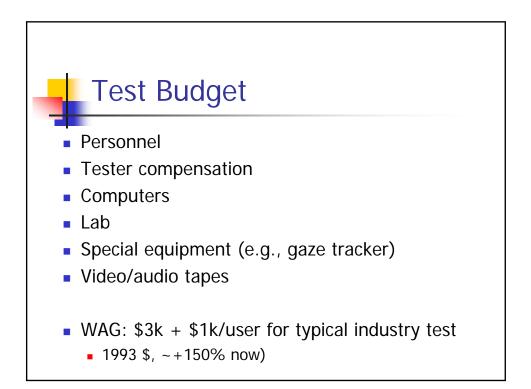


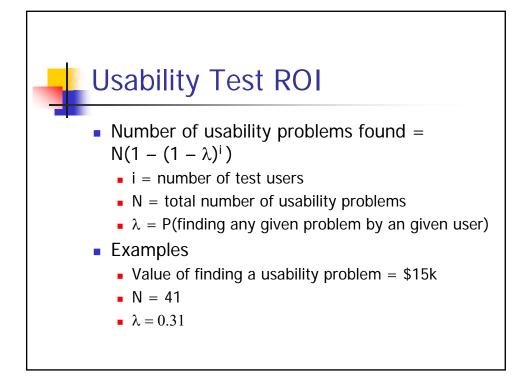


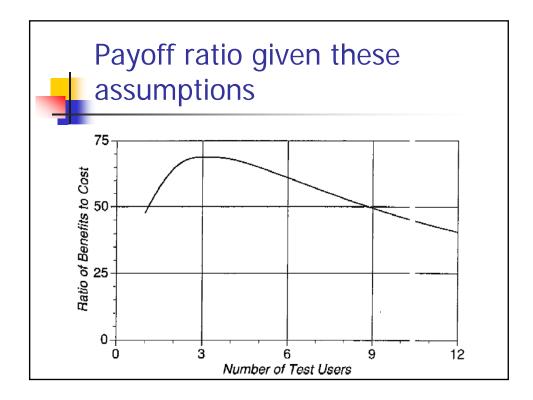


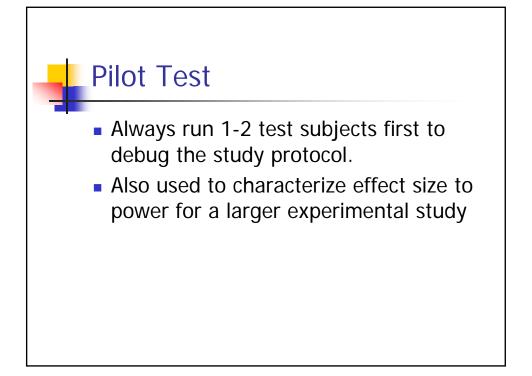


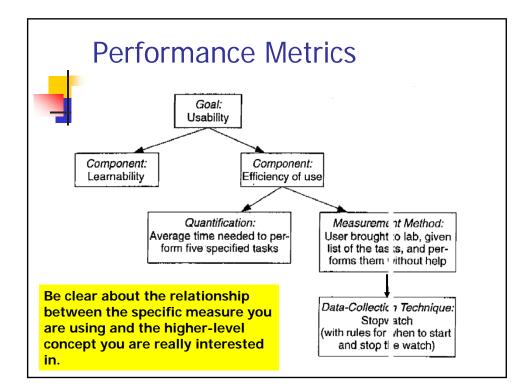






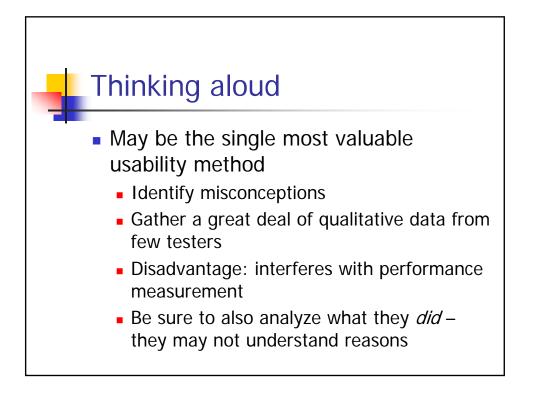


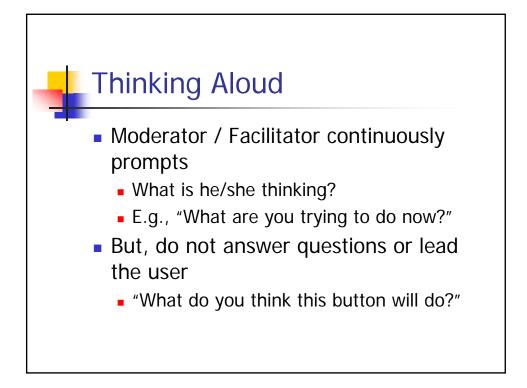


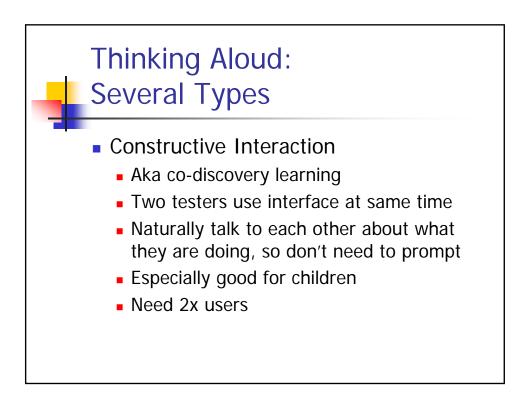




- Time to complete a task
- Number of tasks completed
- Time spent recovering from errors
- Number of errors
- Number of commands/functions used
  - Absolute or Unique
- Frequency of help use; time using
- Proportion who say they would use the product over a competitor's
- Etc.







## Thinking Aloud: Several Types

- Retrospective Testing
  - Video record the test session
  - Review the video with the user afterwards
  - Good when users are scarce
  - Disadvantage: takes at least 2x time to test

