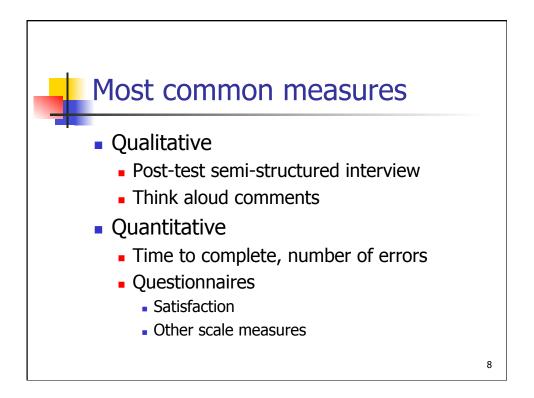
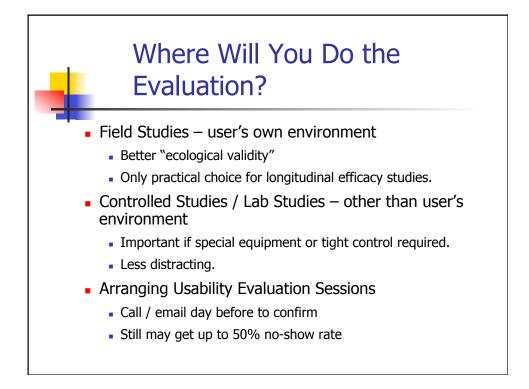
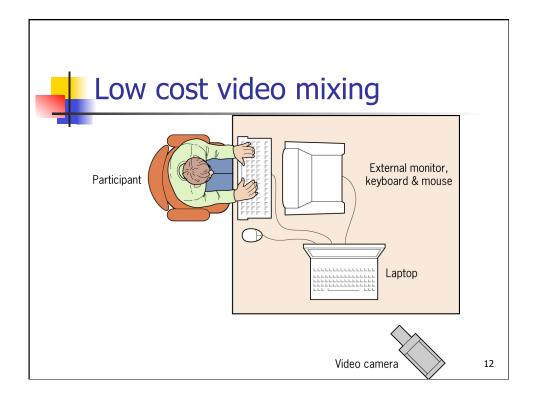


Always collect basic demographics

- Age
- Gender
- Race & Ethnicity
- Educational level
- Computer literacy
- Experience using similar applications
- If student: year, major
- Etc

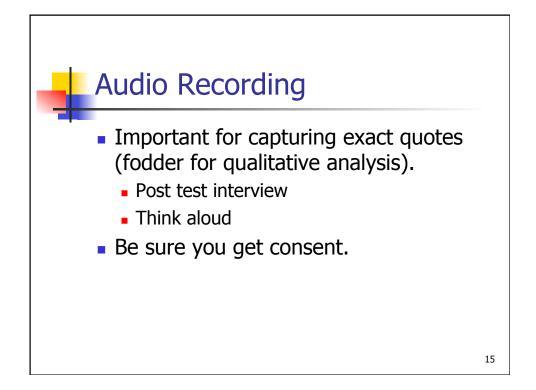


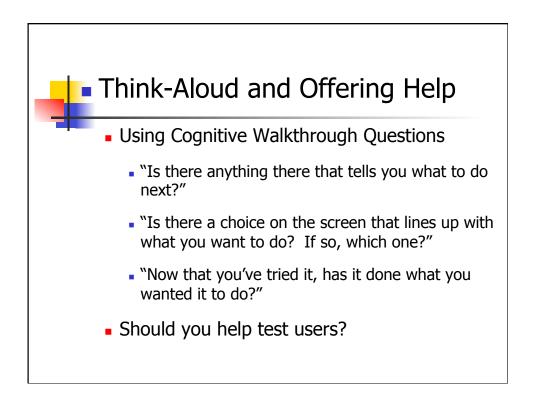


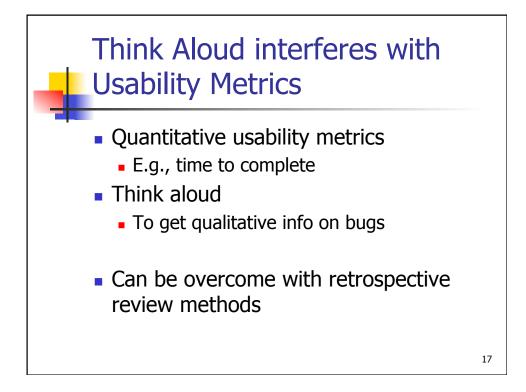


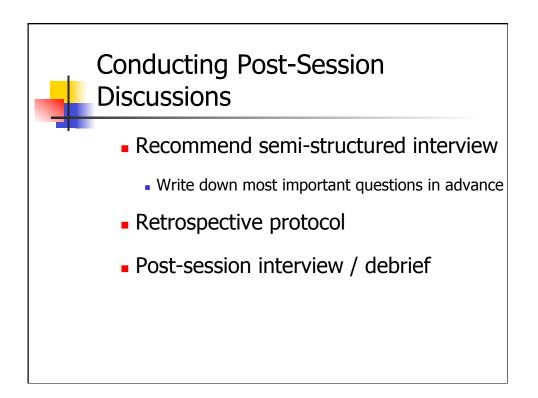


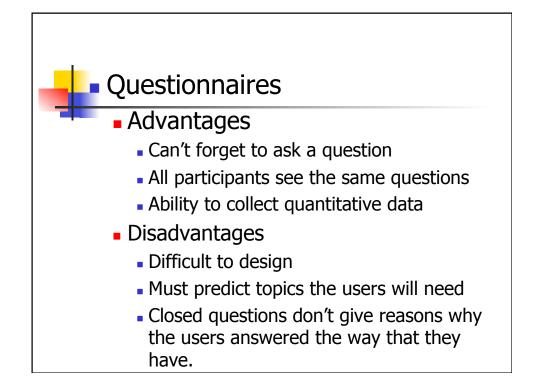


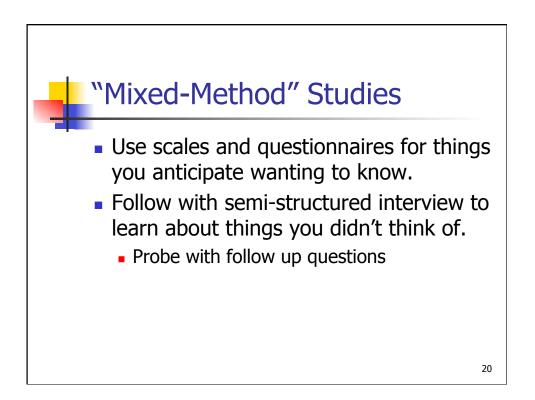


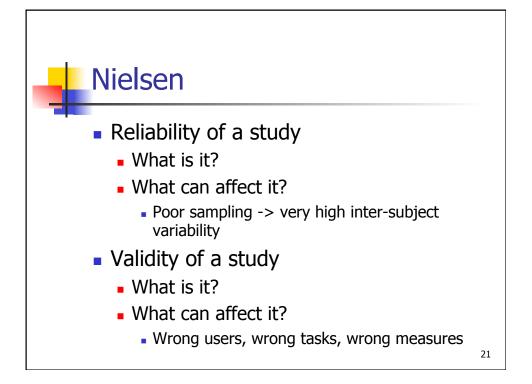


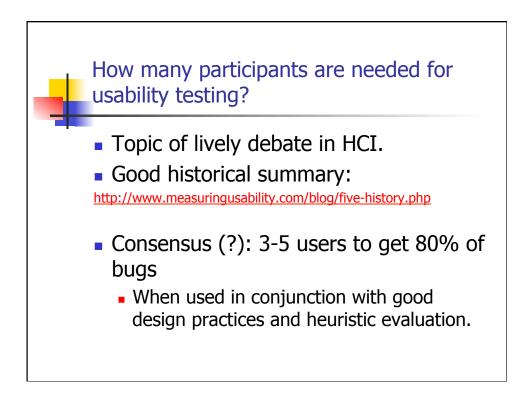


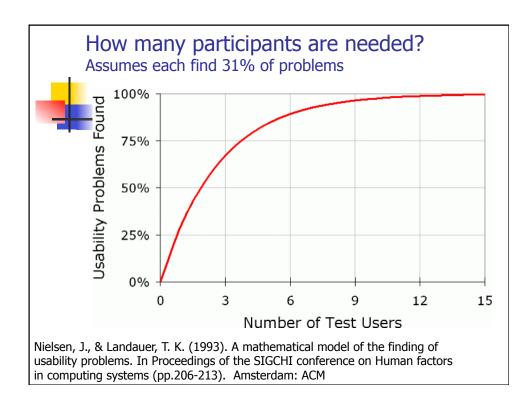


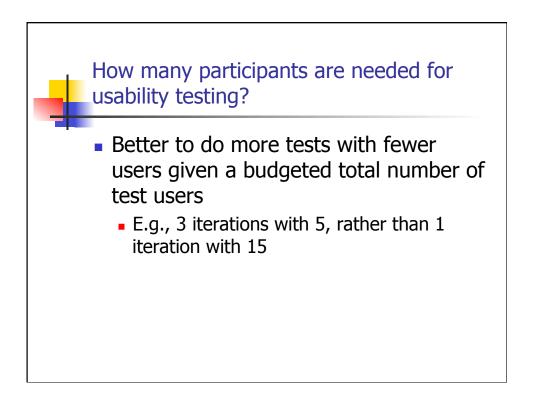












Plan <u>Everything</u>: Study Protocol

- Describe in step-by-step detail everything that you do when a test user walks in the door.
- Especially important for controlled, quantitative studies
- Helps reduce demand effects
- Helps reduce stupid mistakes



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PDA ECA Modality Study Protocol

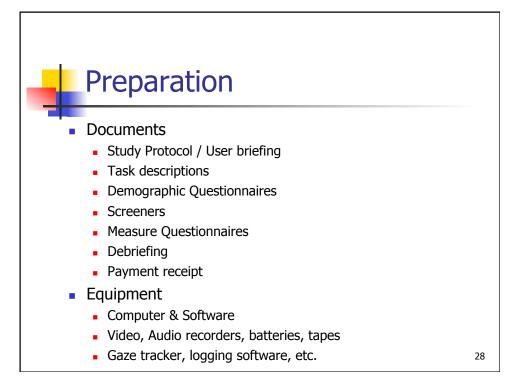
[Subject is assigned sequential ID at time appointment is made. Subject is randomized during lab setup just prior to experiment. Configure and check PDAs, make sure they are charged. Write subject ID and study configuration number on all forms]

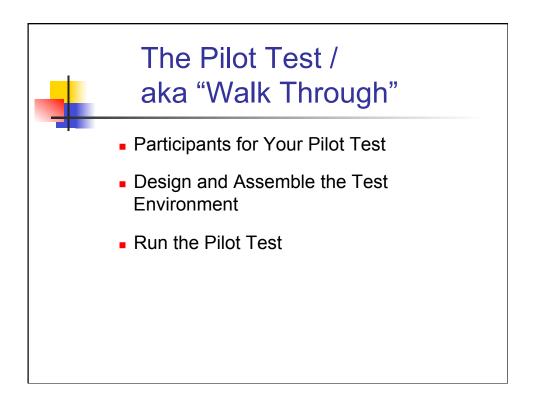
[Seat subject at desk in observation room. Experimenter stands.]

Thanks for helping out with this experiment. Let me tell you what you're going to be doing in the study. We're building an animated virtual exercise coach to help people get more exercise. This coach works on a PDA so that it is portable. **[Show PDA]** Today you will be talking to four different animated coaches, primarily so we can test how well people are able to interact with them. You will not be asked to do any exercise. You will interact with each coach for about five minutes. After each interaction we will ask you to fill out a questionnaire telling us what you thought about it. The entire study should take about 30 minutes and it pays \$10.

Are you able to help us out with this?

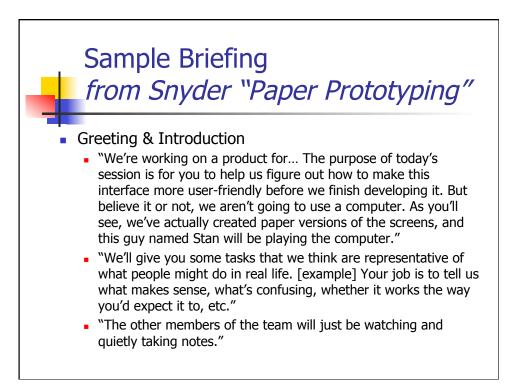
Now I need you to sign some consent forms. *[hand subject forms]* You can go ahead and read the consent forms now. *[Give subject time to read and sign consent forms.] [Collect consent forms.]*

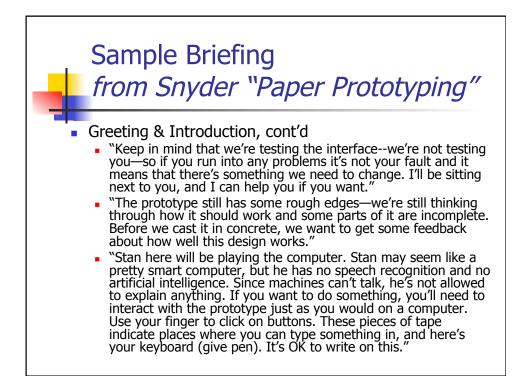


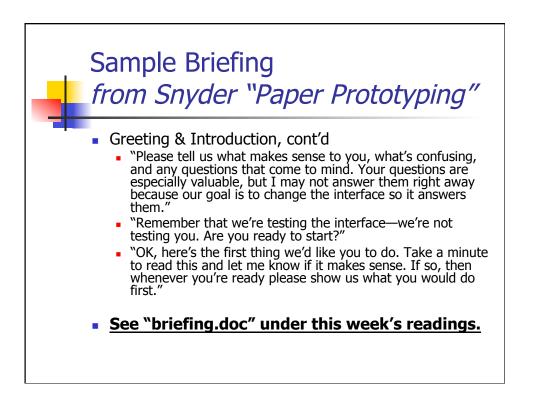


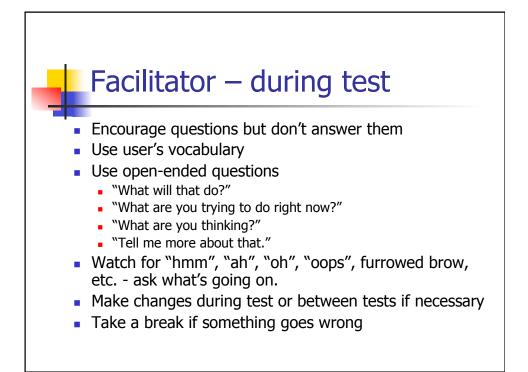
Paper Prototyping: Conducting the test

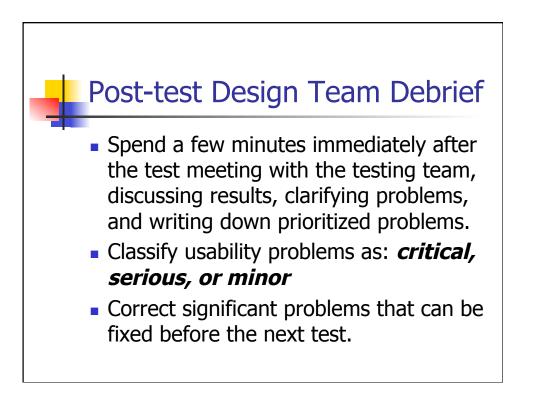
- Need at least two people
 - Computer usually sits across from user
 - Facilitator
 - Talks to user, explains purpose of study and interface, hands him/her tasks, <u>constantly</u> <u>encourages user to talk about what he/she is</u> <u>thinking about</u>, asks user for clarification, etc.
- Others: observers
 - When any issue/problem arises writes them down (ideally on separate index cards)







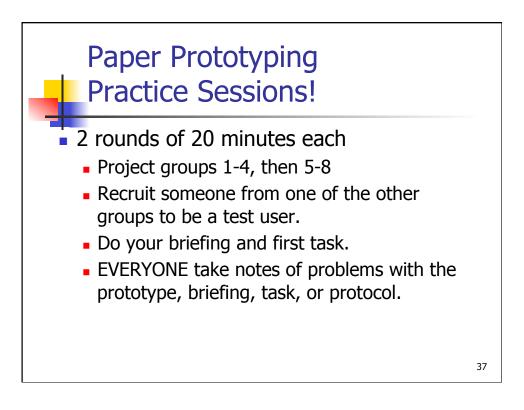


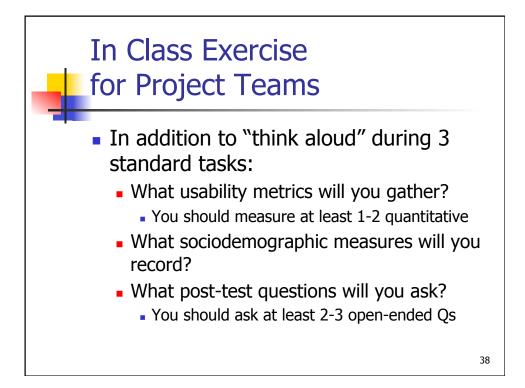


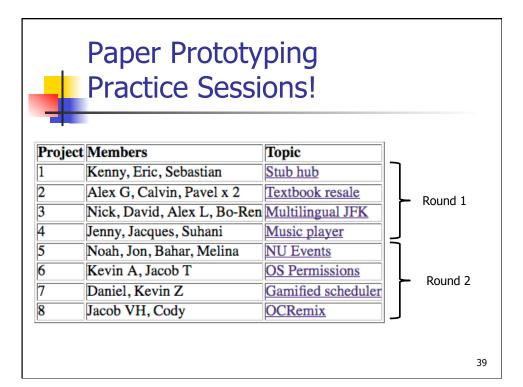
Your Projects

Write user briefing (suggest full protocol)

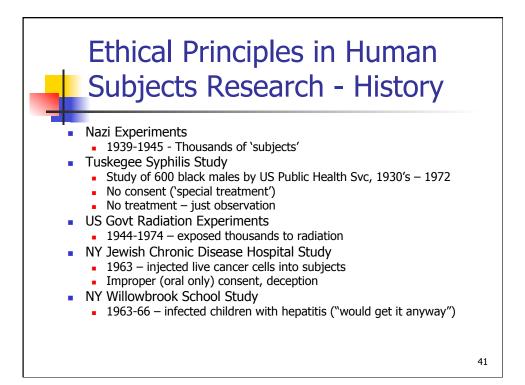
- Verbal informed consent
- Backgrounder on project, process
- Computer practices
- Write user tasks
 - Each on 1 index card
 - Goal to be accomplished (not how to do it)
- Walkthrough the entire process



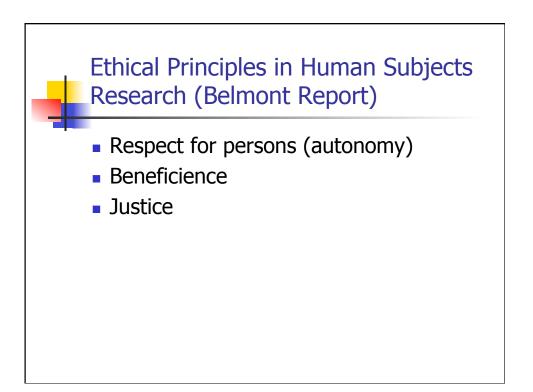






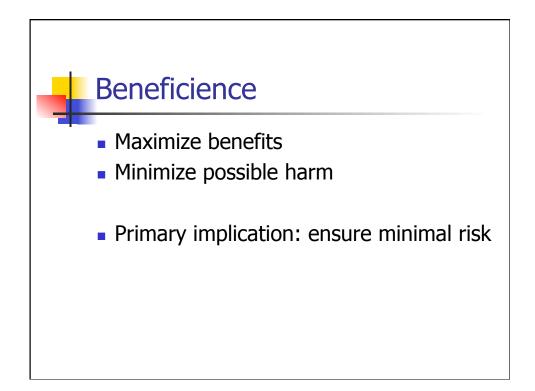






Respect for Persons aka Autonomy

- Individuals should be treated as autonomous agents
- Persons with diminished autonomy may need special protections
- Primary implication: informed consent

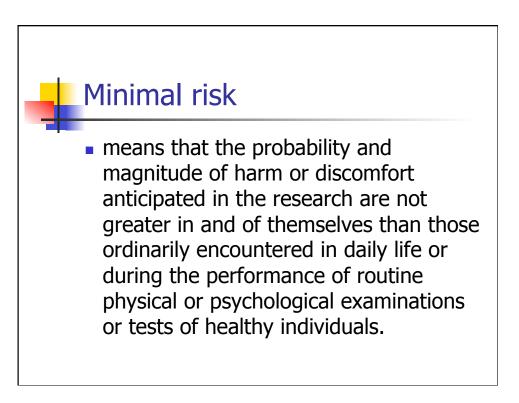


Justice

- Treat subjects fairly
- Risks vs. benefits must be equitably distributed across population
- Primary implication: don't experiment on one group for results to be primarily applied to another.







But, cannot gather "sensitive" information...

- 1) Relating to sexual attitudes, preferences or practices;
- 2) Relating to use of alcohol, drugs or other addictive products;
- 3) Pertaining to Illegal conduct;
- 4) That if released could reasonable damage an individual's financial standing, employability, or reputation within the community;
- 5) That would normally be recorded in a patient's medical record and the disclosure of which could reasonably lead to social stigmatization or discrimination;
- 6) Pertaining to an individual's psychological well-being or mental health;
- 7) Genetic Information.



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?"

