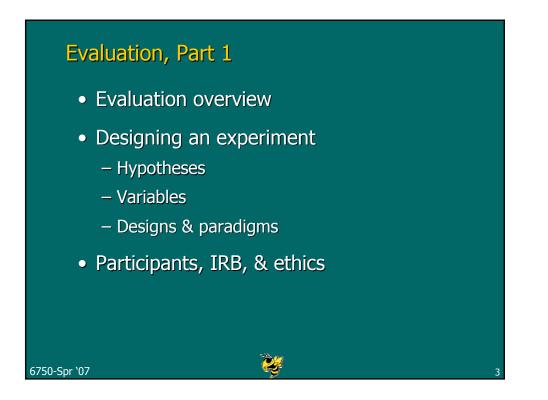
Evaluation 1

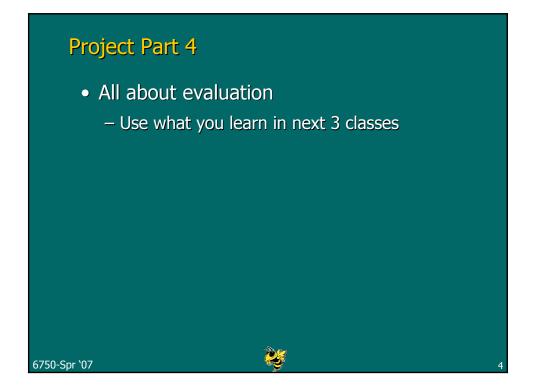
John Stasko Spring 2007

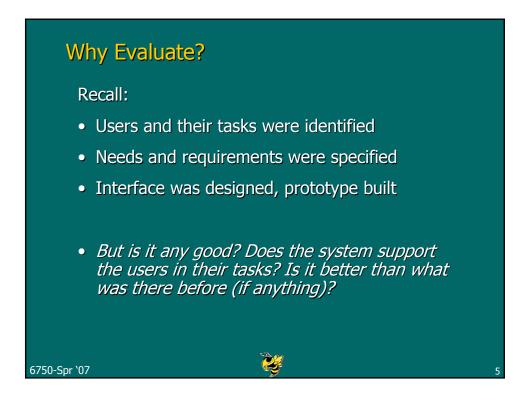
This material has been developed by Georgia Tech HCI faculty, and continues to evolve. Contributors include Gregory Abowd, Al Badre, Jim Foley, Elizabeth Mynatt, Jeff Pierce, Colin Potts, Chris Shaw, John Stasko, and Bruce Walker. Permission is granted to use with acknowledgement for non-profit purposes. Last revision: January 2007.

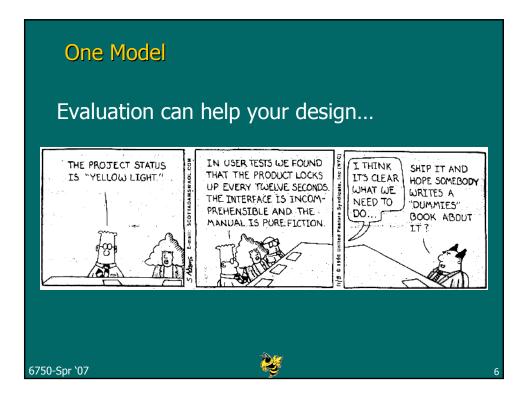
Agenda (for next 3 lectures)

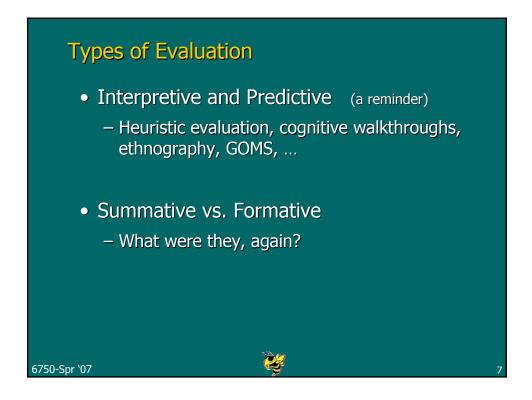
- Evaluation overview
- Designing an experiment
 - Hypotheses
 - Variables
 - Designs & paradigms
- Participants, IRB, & ethics
- Gathering data
 - Objective; Subjective data
- Analyzing & interpreting results
- Using the results in your design

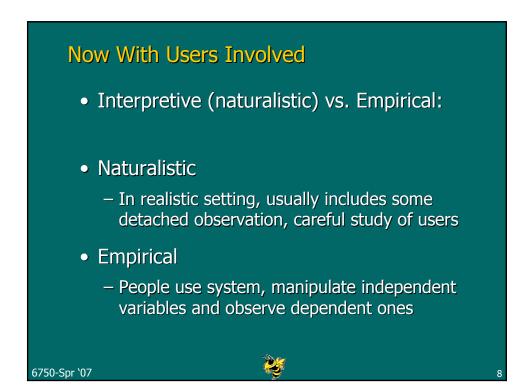


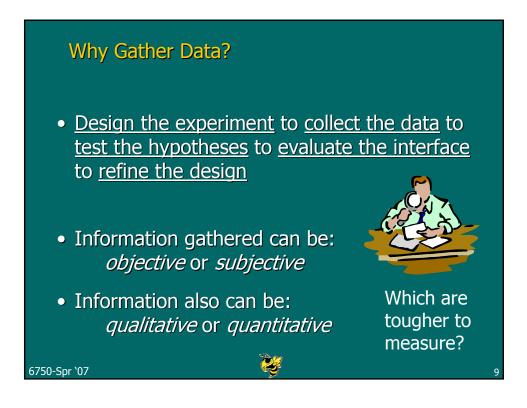


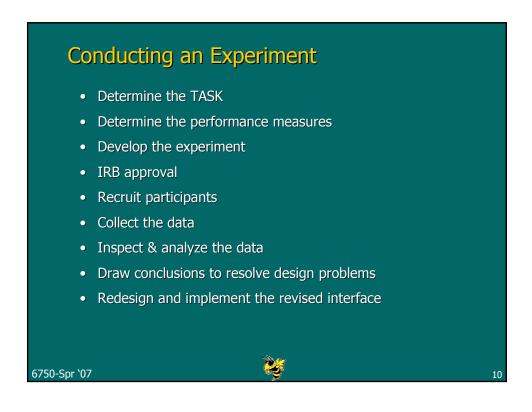


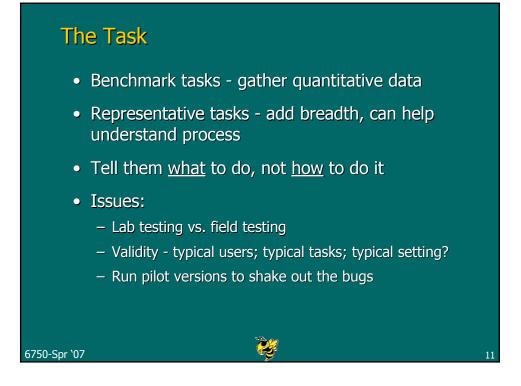


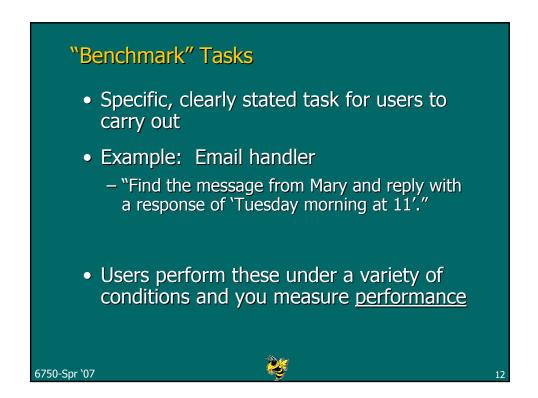












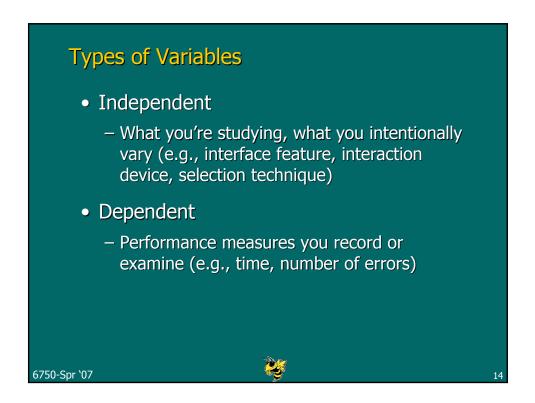
Defining Performance

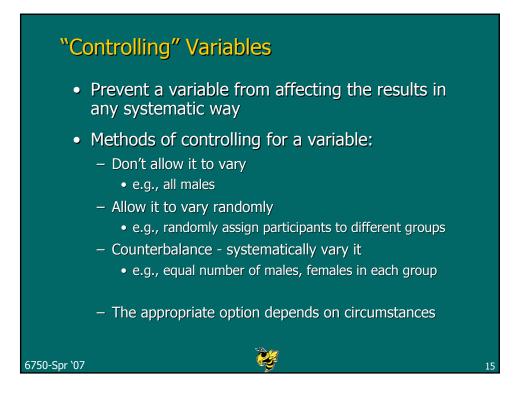
- Based on the task
- Specific, objective measures/metrics
- Examples:
 - Speed (reaction time, time to complete)
 - Accuracy (errors, hits/misses)
 - Production (number of files processed)

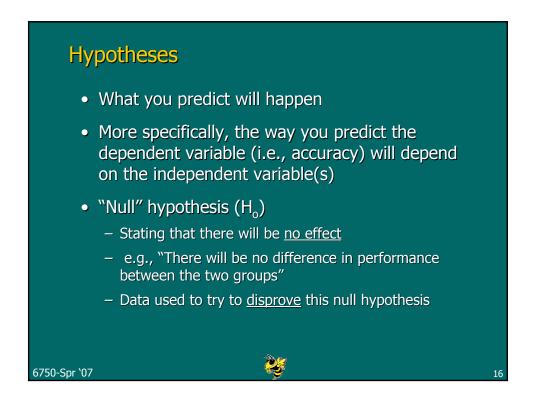
23

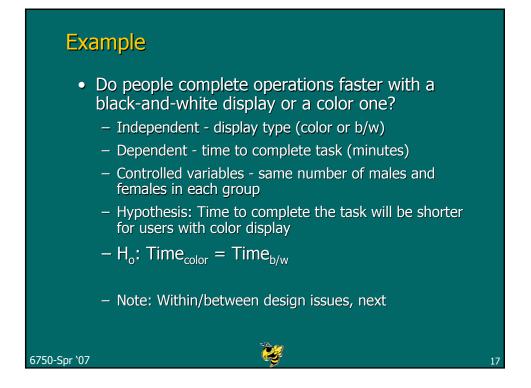
- Score (number of points earned)
- ... others ...?

6750-Spr '07

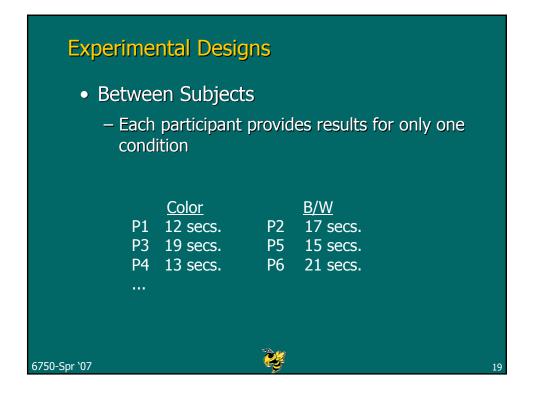


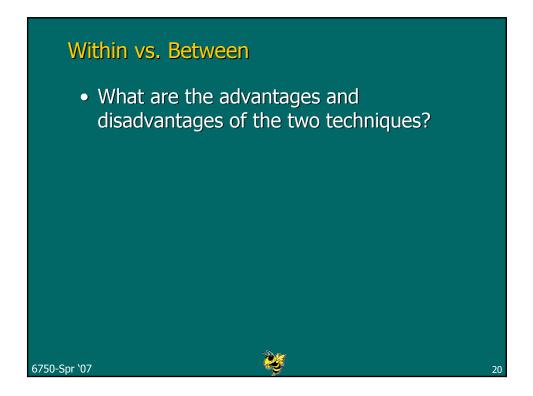




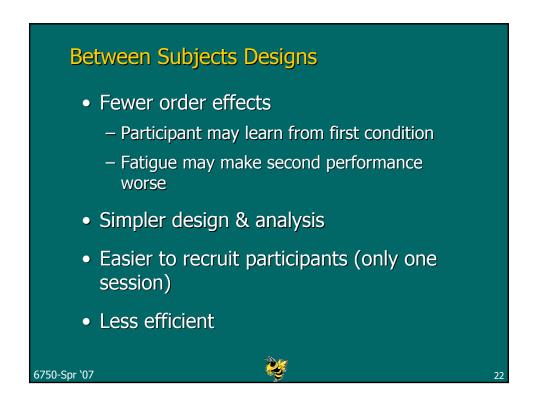


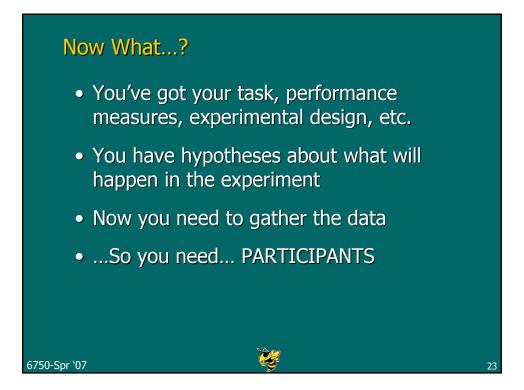
Experimental Designs			
 Within Subjects Design Every participant provides a score for all levels or conditions 			
P1 P2 P3 	<u>Color</u> 12 secs. 19 secs. 13 secs.	<u>B/W</u> 17 secs. 15 secs. 21 secs.	
6750-Spr `07	i		18









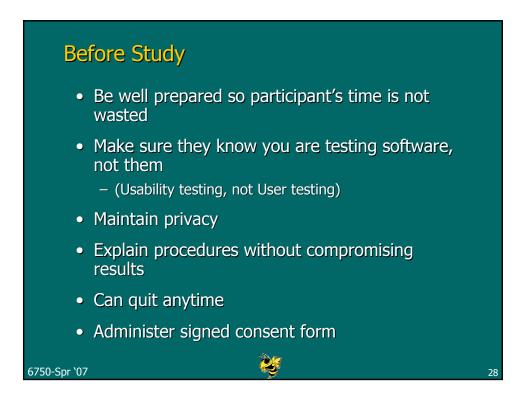










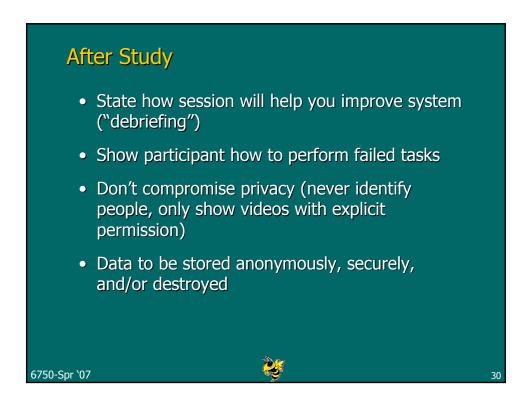


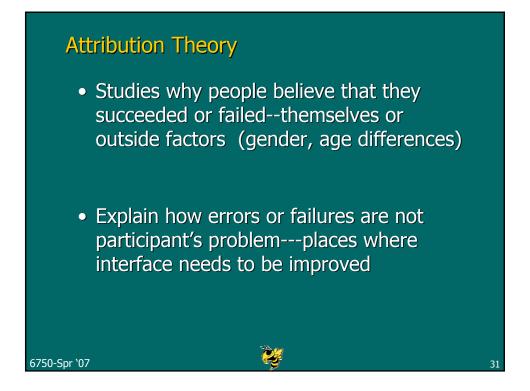
During Study

6750-Spr '07

- Make sure participant is comfortable
- Session should not be too long
- Maintain relaxed atmosphere
- Never indicate displeasure or anger

25





Project

- IRB approval?
- P3 due Thursday after break
 - Prototype description
 - Evaluation plan & usability specs

