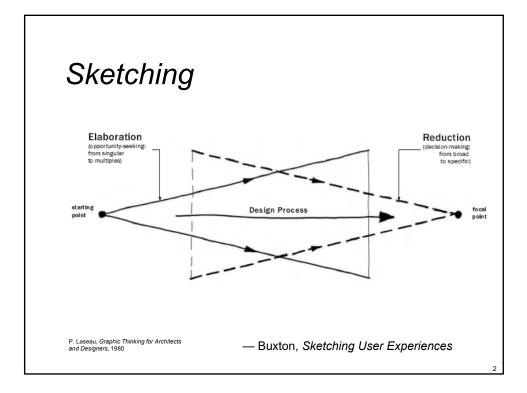
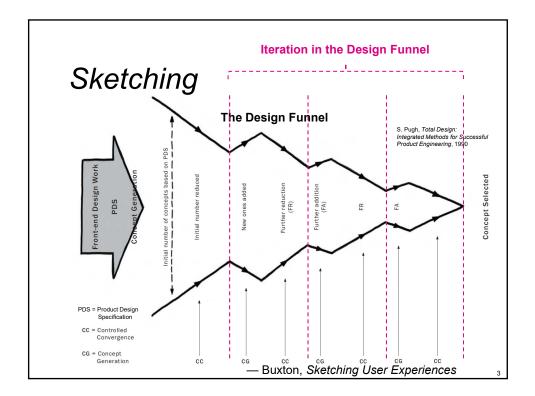
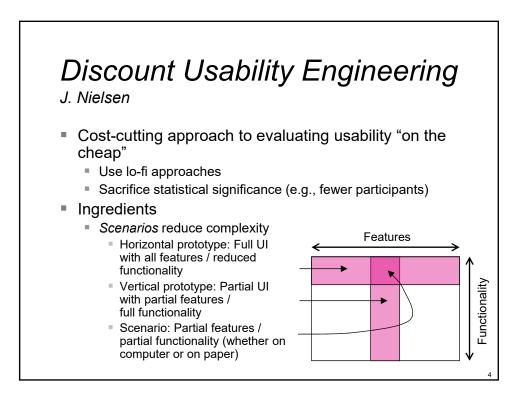
## COMS W4170 UI Design and Evaluation

Steven Feiner Department of Computer Science Columbia University New York, NY 10027

September 25, 2018



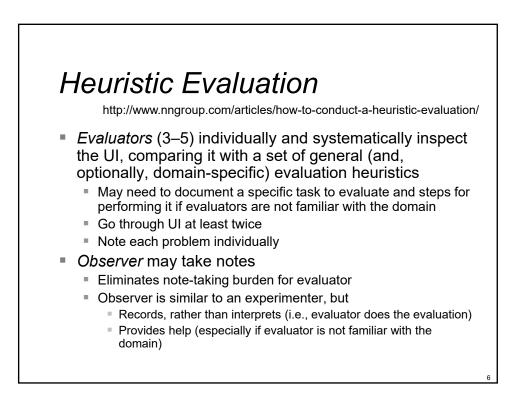


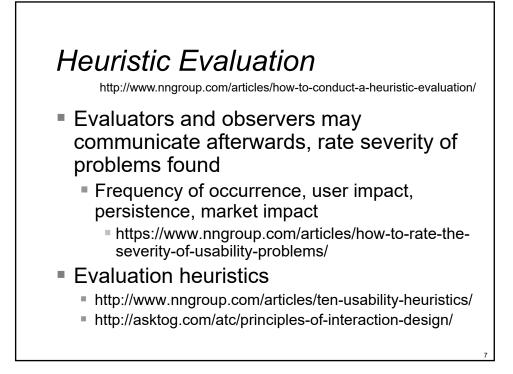


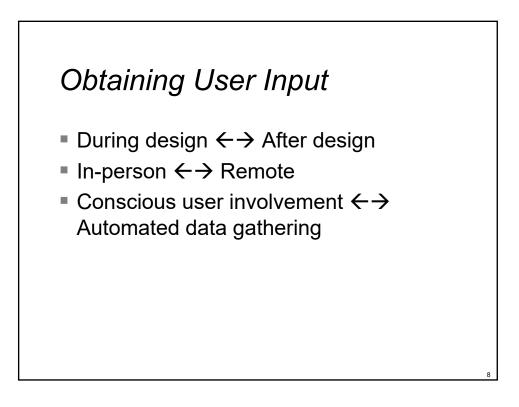
## Discount Usability Engineering

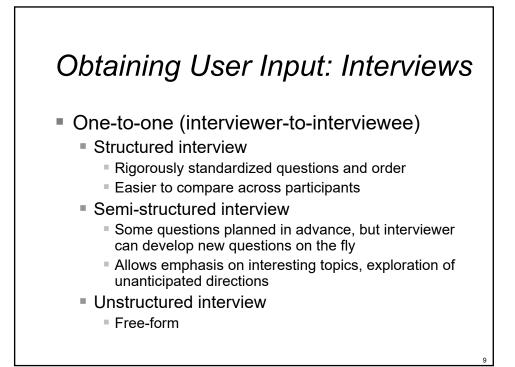
Ingredients (cont.)

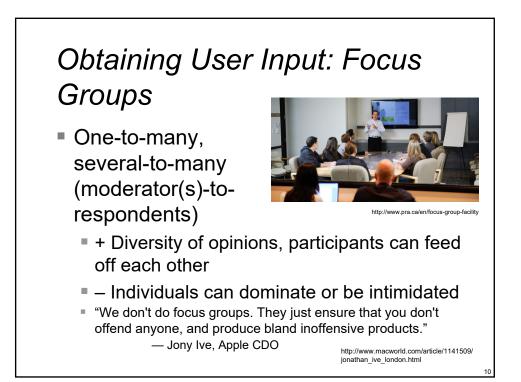
- Simplified "Thinking aloud" protocol
  - Participant "thinks aloud" while using system
  - Experimenter takes notes instead of recording electronically for later analysis
- Heuristic evaluation

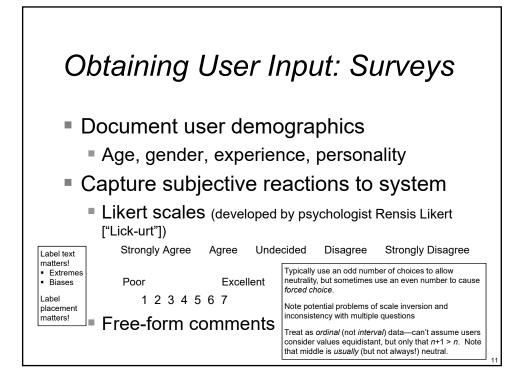


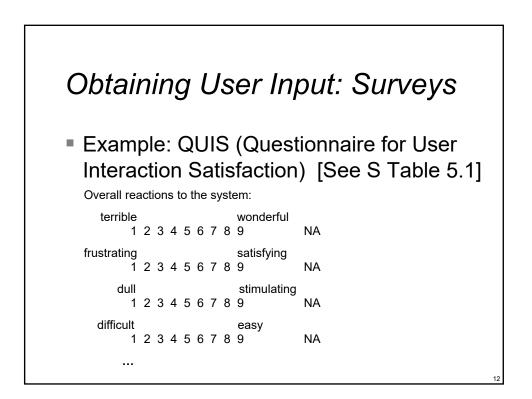












## Ethnographic Observation

- Observation of users, based on methods used by ethnographers in field studies of cultures
  - Understand users, tasks, tools, interactions
- Holistic approach
  - Observe in natural habitat (home or work)
  - May ask questions (interview), participate in activities
  - Acquire subjective/objective data
    - qualitative anecdotes  $\leftrightarrow$  quantitative reports
- Differences with classical ethnography
  - Shorter immersion periods (e.g., hours/days vs. weeks/months)
  - Culture is often closer to that of the observer
  - Emphasis on interface design, rather than cultural understanding

