EXAM REVIEW



human-computer interaction CSE 440 WINTER 2014

Today

- Reminders
- Exam structure & topics
- Closing thoughts
- Course evaluation
- Video prototypes





• Reading assignment 3 -- due Wed, 4:00am



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 - We will print it if submitted by Mar 14, Sat, noon
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- Instructor office hour -- Mon, 1:30-2:30pm



Exam questions

- Matching questions
- True/false questions
- Short/structured answer questions



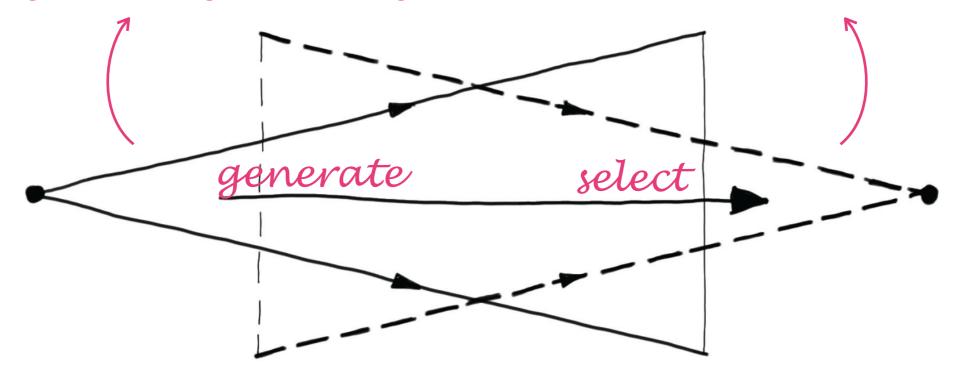
Exam topics

• Everything covered in class



Design process

Getting the right design Getting the design right





get information from the user

ask them

observe them

make them observe themselves



get information from the user

ask them

observe them

make them observe themselves

Interviews Questionnaires



get information from the user

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make them observe themselves

Interviews Questionnaires Ethnography
Passive
observation
Think-aloud



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Experience sampling Diaries/logs



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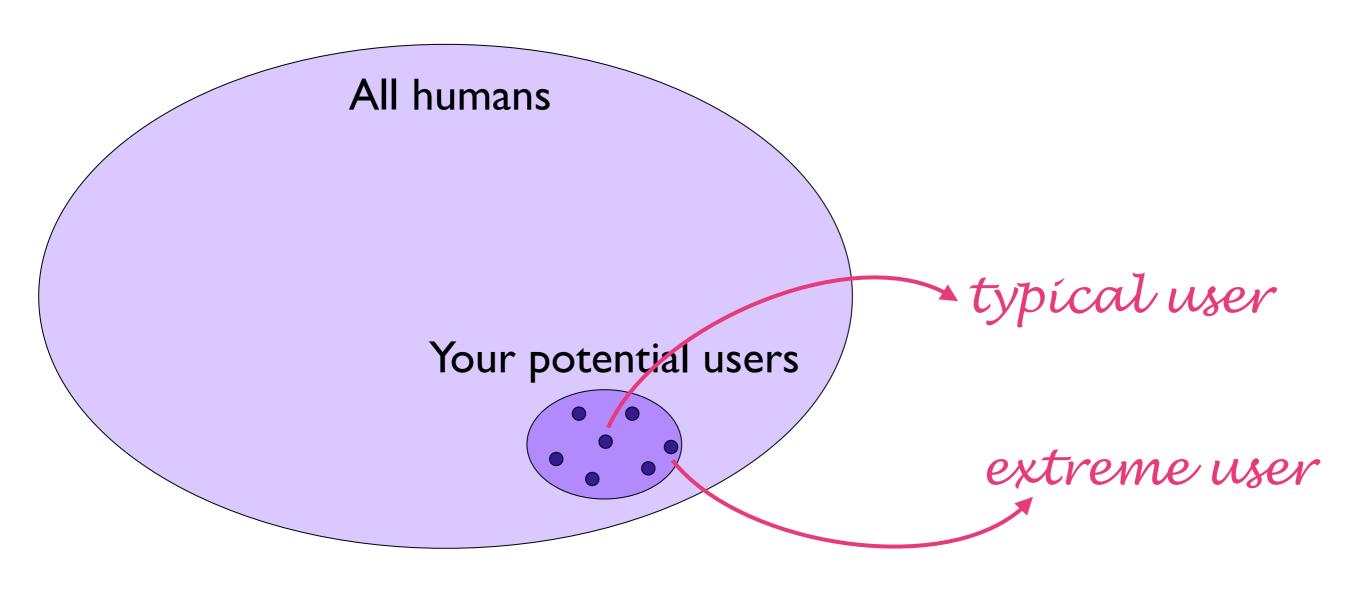
Experience sampling Diaries/logs



Washington

Contextual inquiry

Users & tasks





Users & tasks

- I. Who is going to use the system?
- 2. What are the currently possible tasks?
- 3. What are currently unavailable desired tasks?
- 4. How are tasks learned?
- 5. Where are the tasks performed?
- 6. What is the relationship b/w user and data?
- 7. What other tools does the user have?
- 8. How do users communicate with each other?
- 9. How often are the tasks performed?
- 10. What are time constraints on the tasks?
- II. What happens when things go wrong?



Fidelity

Storyboarding

Time



Fidelity

Paper prototypes Storyboarding



Time

Fidelity

Digital mockups

Paper prototypes Storyboarding

Time



Fidelity

Digital mockups

Paper prototypes Storyboarding

Time

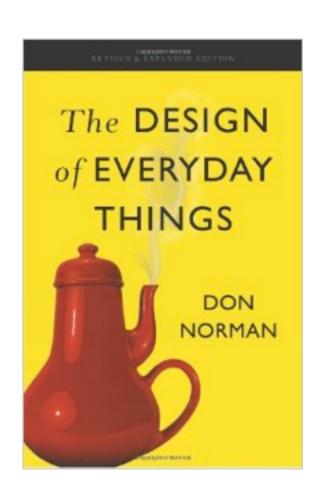


Fidelity Digital mockups
Paper prototypes
Storyboarding Time



Fundamental concepts/principles

- Conceptual/mental models
- Affordances
- Signifiers
- Mappings
- Feedback
- Constraints





Human abilities

- Humans:
- -Perception
 - Color, shape
 - Patterns (Gestalt principles)
- -Memory
- -Motor
 - Movement speed/precision (Fitt's law)



Heuristic evaluation

- H1:Visibility of system status
- H2: Match b/w system & real world
- H3: User control & freedom
- H4: Consistency & standards
- H5: Error prevention

- H6: Recognition, not recall
- H7: Flexibility & efficiency
- H8: Aesthetic & minimalist design
- H9: Recognize & recover from errors
- HI0: Help & documentation



Evaluation techniques

get information from the user

ask them

observe them

make them observe themselves

Interviews Questionnaires Ethnography
Passive
observation
Think-aloud
Empirical user
studies

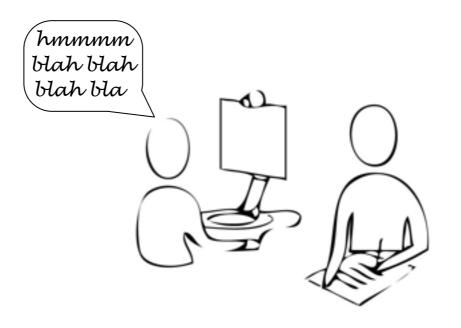
Experience sampling Diaries/logs



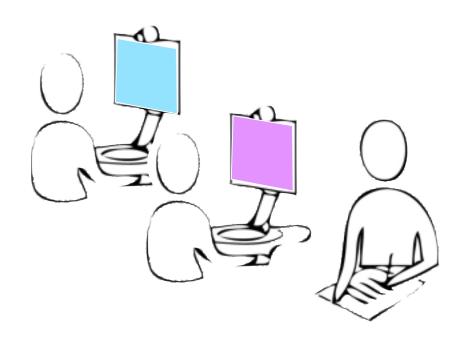
Observing interaction



Passive observation



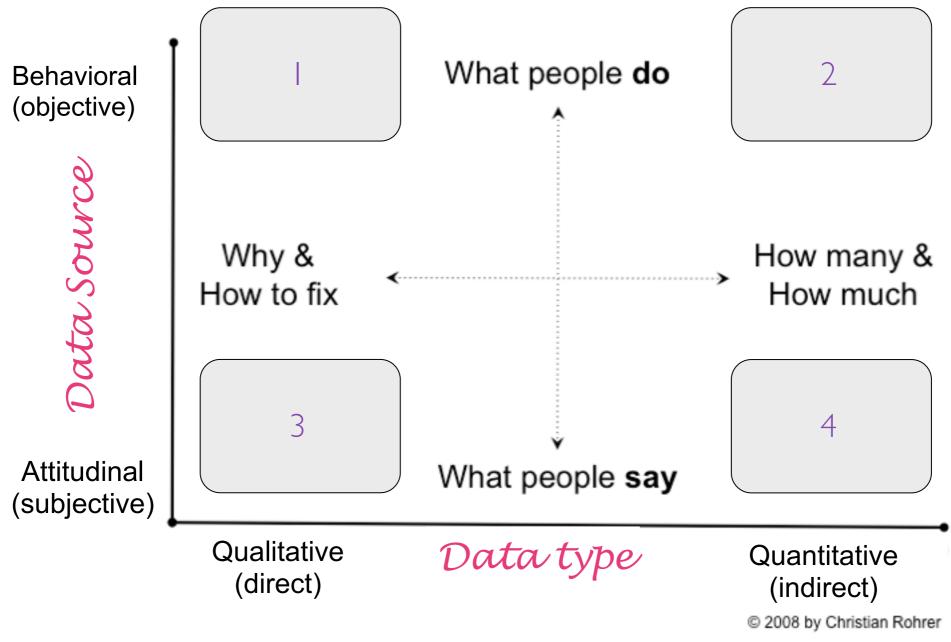
Think-aloud protocol



Comparative study



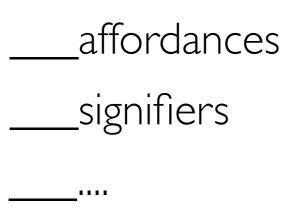
Assessing interaction





Sample questions

Matching questions



- a) Definition: Perceivable properties of an object that help us to determine what are appropriate actions to perform upon it.
- b) Example: There are some doors in this building where I always get confused about whether to push or pull.
- c) ...

Sample questions

• True/false

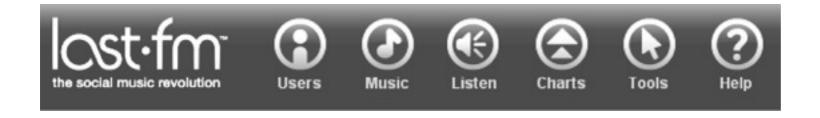
____ Subjective evaluation techniques are qualitative, whereas objective evaluation techniques are quantitative.



Sample questions

• Short/structured answer

Comment on the use of four Gestalt principles in the Last.FM interface shown below.



Closing thoughts

Great job!



Course evaluations

https://uw.iasystem.org/survey/141204



MOVIES

