FIELD STUDIES INTERVIEWS

690A- ADVANCED METHODS IN HCI

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TODAY

- Field studies
 - Interviews [20min]
- In class activity [20min]
- Discussion of readings [15min]
- Project questions [5min]

LEARNING GOALS

- explain when and why interviews may be appropriate evaluation technique choice
- describe different types of Interviews
- discuss pros/cons of interviewing
- outline criteria for a good interview, and things you want to avoid doing

DUE BY NOW...

Team Formation

- You should know by now who you will be working with for the project.
- Update the Google sheet and list the team members.
 - Reminder: teams of 3-4 students

INTERVIEWS: WHEN AND WHY

a tool that can be used at any point in design process

are well suited for (among others):

- exploring issues
- learning more about tasks, scenarios of use
- involving users (+ making them feel involved)
- getting inside the user's head

INTERVIEWS: INFINITELY MALLEABLE

Some things that can vary:

- number of people
 - individual, pairs, groups
- scope
 - duration, depth and breadth
- type
 - structured, semi-structured, unstructured
- location
 - in the lab vs. reality (in context)
- in combination with other techniques

KINDS OF INTERVIEWS

three main types:

- open-ended / unstructured
- semi-structured
- structured
- early stages of research use unstructured. Why?
- later stage more structured. Why?

other categories (can include types above):

- group e.g. focus groups
- retrospective user recalls and describes
- contextual inquiry user is interviewed while working

UNSTRUCTURED INTERVIEWS

- most like a conversation, often go into depth
- open questions
- exploratory

absolute key is to listen rather than talk: practice silence!

pros/cons:

- rich data, things interviewer may not have considered
- easy to go off the rails
- time-consuming & difficult to analyze
- impossible to replicate

SEMI-STRUCTURED INTERVIEWS

in between structured & unstructured:

- seek a mix of constrained and unconstrained responses
- make sure to cover bases
 - e.g. list of items to definitely cover, responses to definitely get
- flexibility for open-ended follow-up as situation evolves

in HCI, un- and semi-structured are the most common

STRUCTURED INTERVIEWS

- predetermined questions
 - (like questionnaire, often with a flowchart)
- closed questions
- short, clearly worded questions
- confirmatory

pros/cons:

- replicable
- potentially important detail can be lost

GROUP INTERVIEWS (FOCUS GROUP)

- 2-10 people interviewed at one time
- usually has agenda, but may be either structured or unstructured
- skilled moderator critical!
- usually recorded

pros/cons:

- can accommodate diverse and sensitive issues
- opinions developed within a social context
 - some participants may be reluctant to take opposing view
- good way to locate "proto-users": most articulate, imaginative participants can help later w/participatory design
- some interviewees may dominate

UD CO-SPACES: A TABLE-CENTRED MULTI-DISPLAY ENVIRONMENT FOR PUBLIC ENGAGEMENT IN URBAN DESIGN CHARRETTES



Mahyar et al, UD Co-Spaces: A Table-Centred Multi-Display Environment for Public Engagement in Urban Design Charrettes, ISS 2016 [Honorable Mention Award]

COMPARATIVE STUDY





UD-CO-SPACES EVALUATION STUDY

Workshop agenda	Time allowed (minutes)
1. Arrival, role assigned	10
2. Entry survey	10
3. Introductory lecture	5
4. Instruction on design task and tools	2
Work on design task	20
6. Targets provided by researchers	3
7. Continue to work on design task	25
8. Break	20
9. Post-task questionnaire	15
10. Focus group discussion	30
TOTAL	140

RETROSPECTIVE INTERVIEW

post-test interview to clarify events that occurred during system use:

record what happened, replay it, and ask about it

pros/cons:

- excellent for following up and grounding an evaluation
- avoids erroneous reconstruction
- users often offer concrete suggestions
- takes time; might require a second session

INTERVIEWING GUIDELINE

- do not pre-suppose answer
 - How often do you use your mobile phone to call family members?
 VERSUS
 - What are the ways in which you communicate with your loved ones?
- be open-ended avoid yes/no questions

avoid:

- asking long questions
- using compound sentences
- using jargon
- asking leading questions
 - ... and generally be alert to unconscious biases.

HOW WILL DATA BE RECORDED?

- handwritten notes (free form, coding sheet)
 - written notes can provide context, but not always details
- audio recording
 - audio recording helps capture terminology, common phrases, specific details
- video capture
 - video recording helps provide body language
- still photos

WHAT DO YOU NEED TO BRING?

be organized BEFORE you start:

- consent forms
- screening forms (if participant selection not done in advance)
- audio/video equipment
 - extra tapes, microphone?, extra batteris, tripod
- note taking equipment
- instruments: interview scripts, questionnaire?

just because it is a qualitative method does not mean that detailed preparation is not required!

SOME CRITERIA FOR A GOOD INTERVIEW

structure the time

have a clear beginning, middle and end

give participants context

- explain why are there, what you hope to learn
 - if they don't know, they can't tell you

use props and visuals

- combat artificial contexts with props relevant to questions/topics (e.g., prototypes, photos)
 - sometimes it's easier to show than to tell

listen

- make eye contact
- refer back to things that have been said
- be attentive, respectful, sympathetic, and flexible
- give the participant time to think
 - but if they go off topic, OK to steer them back

PILOT TESTING

check for:

- duration
- clarity of interview questions
 - non-repetitive, ability to deliver the script fluidly
- ability to operate recording equipment

bottom line: do you get meaningful data?

PRIMARY AND SECONDARY INTERVIEWING ROLES

there is often too much for one person to do!

- primary
 - usually the person who has contacted the participant guides the discussion
- secondary
 - responsible for most data capture (all recording devices, primary notes, artifact collection)

POST SESSION

- debrief immediately with partner/team
- type notes right away expand as appropriate (make sure to note clearly what are expansions b/c they are subject to recall)
- check your recordings and label media
- make a log of all the items from the session (artifacts, audio/video tapes, still images, notes...)
- write up reflection on session (things that were not clear, surprising, ...)
- plan for transcripts of dialog, as appropriate

ACTIVITY: COMPARING AND CONTRASTING INTERVIEWS [20 MIN]

"how to do a research interview"

- link to full video:
- https://www.youtube.com/watch?v=9t-_hYjAKww
 - Contains more advice on good interviewing

Note

example is from social sciences
... many similarities to interviews in HCI

DISCUSSION ON INTERVIEW READINGS [15 MIN]

Get into group of 3-4 answering the following questions:

- What surprised you? or
- What you disagreed with?
- Others?

PROJECT QUESTIONS [5 MIN]

- First interim-milestone
 - Submitted through Piazza
 - Status of the teams?

ON DECK...

Next class (Tuesday) ...

- 1. Readings (as posted) and researcher journals
- 2. Team contract is due
- 3. First interim-milestone: unstructured observation in public place is due on Tuesday

EXTRA SLIDES

INTERVIEWING GUIDELINE

- interview in everyday, familiar settings take cues from context
- be flexible to adapt line of questioning
- establish and maintain good rapport
- casual conversation is not bad
- assume respondent is expert
- do not interrupt unnecessarily
- plan questions that allow triangulation
 - ask the same question in different ways

PROS AND CONS OF INTERVIEWS

Pros and Cons of Interview	
Advantages	Challenges and limitations
Can provide more detailed information than	Can be time-intensive because of the time it
other data collection methods, such as surveys	takes to conduct interviews, transcribe them,
	and analyze the results
May provide a more relaxed atmosphere in	Interviewer must be appropriately trained in
which to collect information through	interviewing techniques in order to extract the
conversation, in comparison to filling out a	most detailed and rich data from an interviewee
survey	
Interviewee can provide firsthand and more	Not generalizable; generalizations about the
personal knowledge of a given topic that was	results are usually incapable of being made
not anticipated by the researcher	because small samples are chosen and
	random sampling methods are not used
	Prone to bias; responses from interviewees
	(community members, program participants,
	etc) might be biased due to their stake in the
	program

Boyce, C., Neale, P. (2006) Conducting In-depth interviews: A Guide for Designing and Conducting In-Depth Interviews for Evaluation Input, Pathfinder international, pp.1-12.

PROS AND CONS OF FOCUS GROUP

Pros and Cons of Focus Groups		
Advantages	Challenges and limitations	
Generate many ideas through dynamic discussions; "snowballing effect" can occur as participants develop ideas together Bottom-up generation of concerns and issues, which can help to establish survey variables	Where focus groups are conducted within an organization, participants may be concerned about confidentiality Researcher must be highly skilled in facilitating and managing group discussions	
Can offer validity to research and avoid issues of bias in researcher's interpretation	Some participants may not speak openly and may be inhibited because of the group	
Relatively quick and efficient when compared with participant observation	Dominance by one, or some, participant(s) could limit findings relevant to the group as a whole	

Hancock, B., Windridge K, Ockleford E (2007). An Introduction to Qualitative Research, Trent RDSU.

PROS AND CONS OF OBSERVATION

Pros and Cons of Participant Observation		
Advantages	Challenges and limitations	
Permits access to the "backstage culture,"	Interpretation of data collected by researchers	
allows for richly detailed description of	might be skewed by the researcher's individual	
behaviours, intentions, situations, and events	interest rather than what actually happens in a	
as understood by one's informants	culture	
Provides opportunities to participate in	Understanding of the participant and what	
unscheduled events	he/she thinks is being said is limited	
Can afford the researcher the opportunity to	Researchers experience a feeling of having	
experience the real emotions and feelings of	been excluded particularly at the beginning the	
those being observed	research process	
Useful for explaining "what is going on" in a	community's discomfort with having an outsider	
specific culture and in particular social	may compromise the "reality" of what is being	
situations	observed	
Heightens the researcher's awareness of	Interpretations of observations are subjective	
significant social processes		

DeMunck, V. C., Sobo, E. J. (Eds) (1998). *Using methods in the field: a practical introduction and casebook*. Walnut Creek, CA: AltaMira Press. Kawulich, B. (2005). Participant Observation as a Data Collection Method, *Forum: Qualitative Social Research*, 6(2).