# CS449/649: Human-Computer Interaction

Spring 2019

Lecture VI

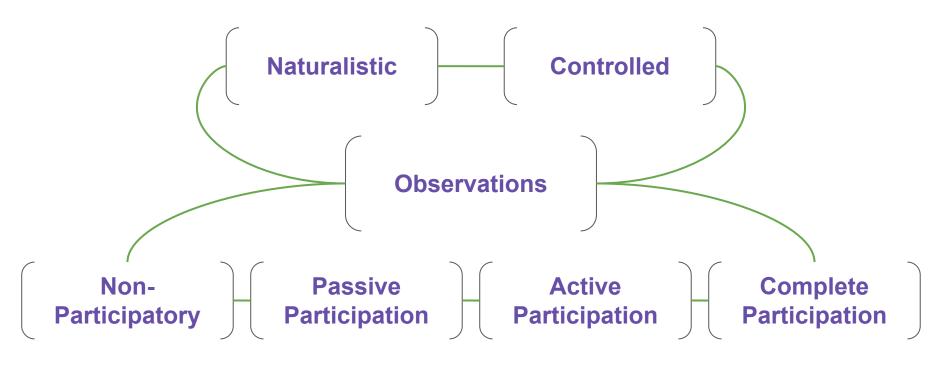
- Questionnaires
  - Observations
  - Interviews

Diary/Camera Studies

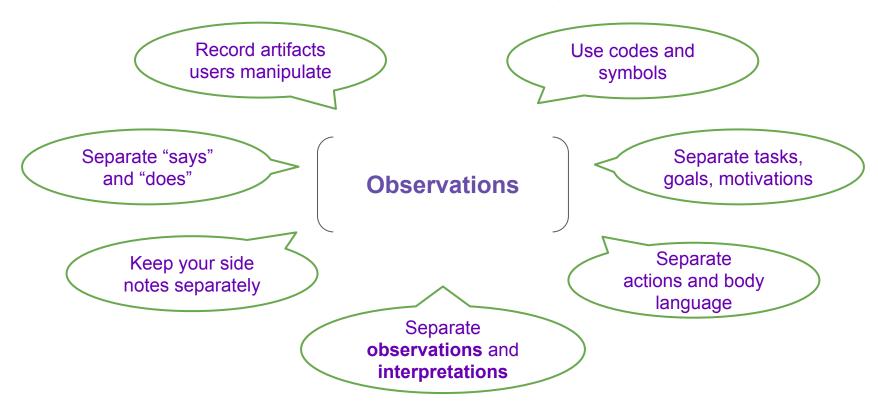
- Participatory Design
- Ethnographic Field Studies
- Contextual inquiry

- Observing participants performing some type of activity (ongoing behaviour)
- Can be controlled (lab) or naturalistic (field)
- Different possible levels of participation
- Written or video recording (requires consent!)









- Questionnaires
- Observations
- Interviews

Diary/Camera Studies

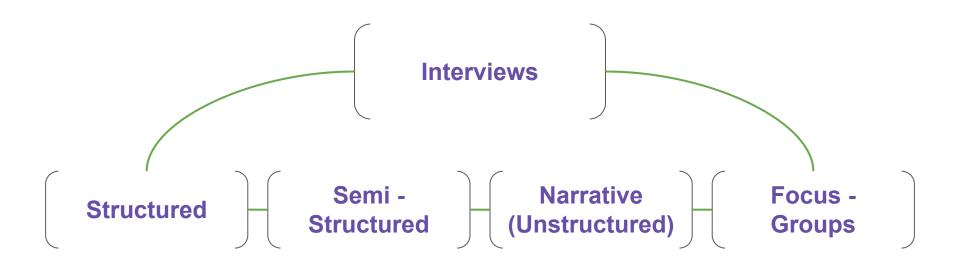
Participatory Design

- Ethnographic Field Studies
- Contextual inquiry

- In depth discussion of the topic with a participant
- Usually one-on-one
- Written, audio, video recording options (requires consent!)

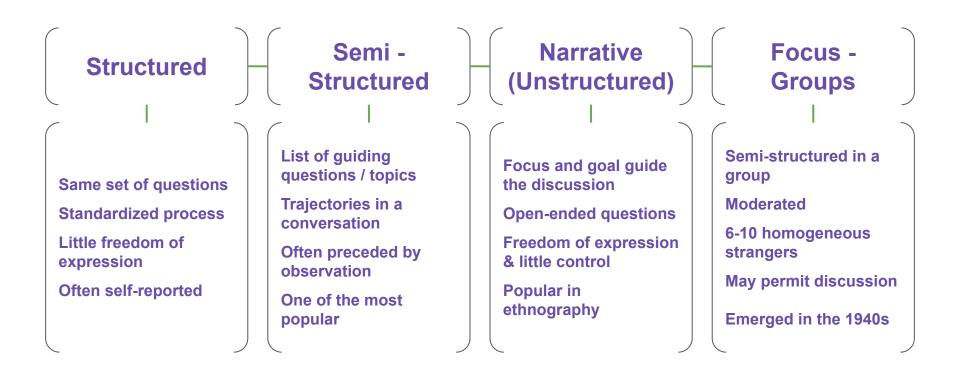


#### **Understand Your Users: Interview**





#### **Understand Your Users: Interview**



- Questionnaires
- Observations
- Interviews

- Diary/Camera Studies
- Participatory Design
- Ethnographic Field Studies
- Contextual inquiry

- Includes a mechanism (diary or camera) to record / describe relevant activities in "everyday" settings
- Longitudinal
- Data recorded by participants based on provided guidelines

- Questionnaires
- Observations
- Interviews

Diary/Camera Studies

Participatory Design

- Ethnographic Field Studies
- Contextual inquiry

- Participants are given design elements
- Inclusive design process constructing ideal experience real time with a researcher
- Helps to understand values and uncover mental models

- Questionnaires
- Observations
- Interviews

- Diary/Camera Studies
- Participatory Design
- Ethnographic Field Studies
  - Contextual inquiry

- Natural environment, everyday life
- First-hand participation in users' activities
- Description of the scene, key events, key actors, key artifacts and actions
- Combination of observations and interviews
- Focus on objective behaviours





- Questionnaires
- Observations
- Interviews

- Diary/Camera Studies
- Participatory Design
- Ethnographic Field
  - Studies Contextua
- Contextual inquiry

- Natural environment, everyday life
- First-hand participation in participants' activities
- Relatively short (several hours)
- Researcher heavily involved in the process and constantly asks questions
- Mostly rely on self-report data



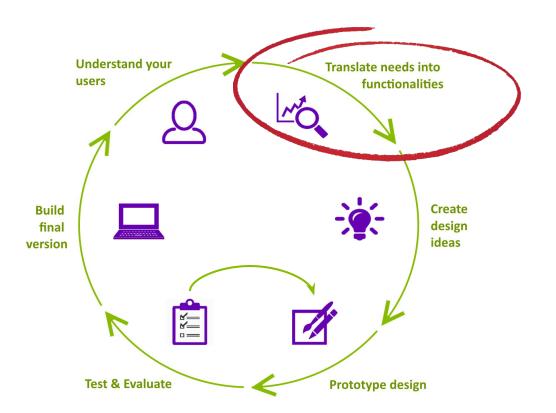
## There is a product

- True-Intent Studies
- Remote Unmoderated Usability Studies
- Intercept Surveys
- Clickstream Analysis

- Diary/Camera Studies
- Participatory Design
- Questionnaires
- Observations
- Interviews

## There is NO product

- Ethnographic Field Studies
- Contextual inquiry





### **Translating Needs Into Functionalities**





#### **Translating Needs Into Functionalities**

