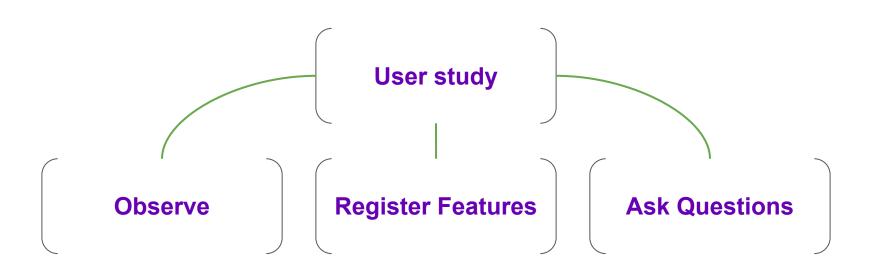
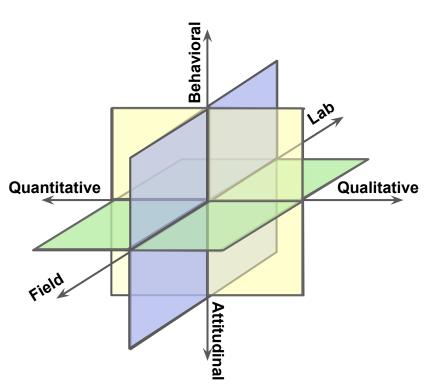
# CS449/649: Human-Computer Interaction

Winter 2018

Lecture III







### Quantitative

- Fixed & measurable reality
- Analyzed numerically and statistically

### **Field**

- Natural Environment
- Uncontrolled

### Behavioural

What people do

### **Qualitative**

- Dynamic & descriptive reality
- Analyzed by themes

### Lab

- Artificial Environment
- Well Controlled

### **Attitudinal**

What people think / feel

### **Data Triangulation**

- One question several methods
- Cross verification

### Quantitative

- Fixed & measurable reality
- Analyzed numerically and statistically

## Field

- Natural Environment
- Uncontrolled

### Behavioural

What people do

### **Qualitative**

- Dynamic & descriptive reality
- Analyzed by themes

### Lab

- Artificial Environment
- Well Controlled

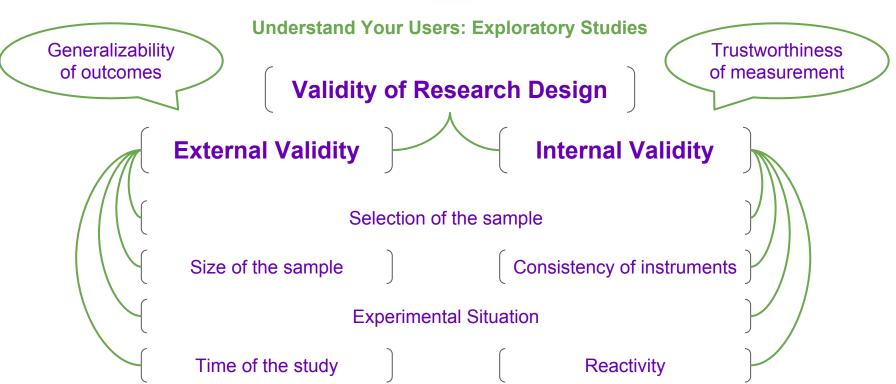
### **Attitudinal**

What people think / feel

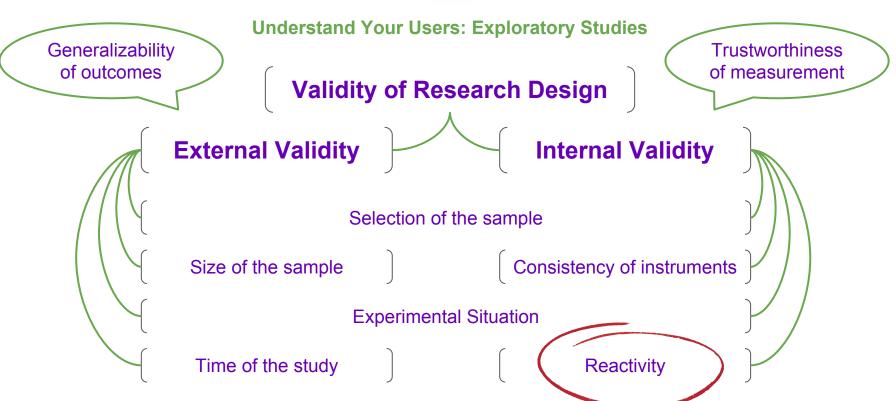




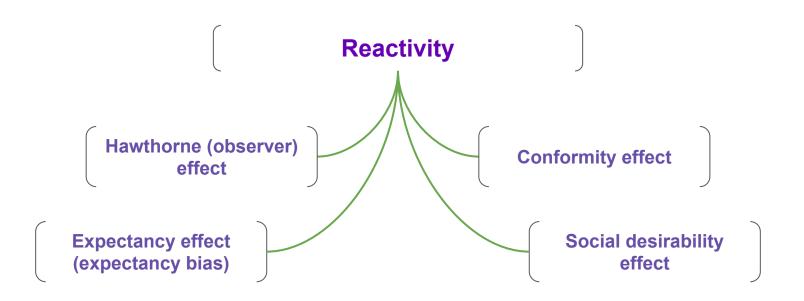


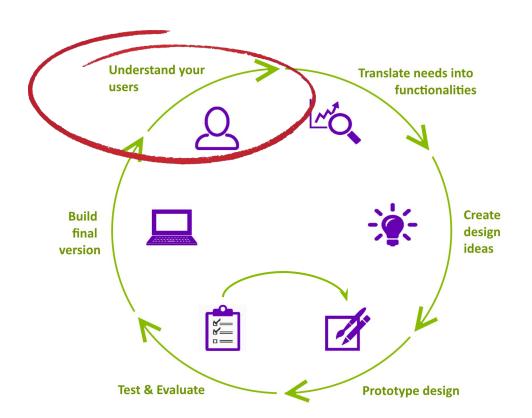




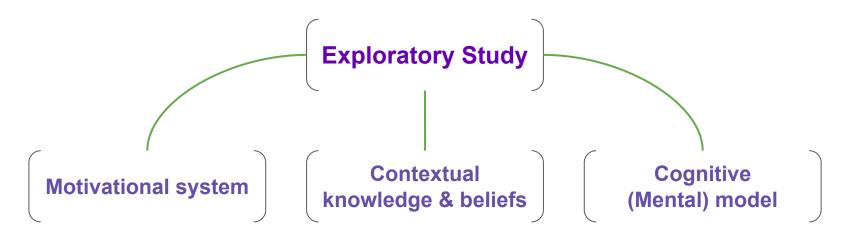




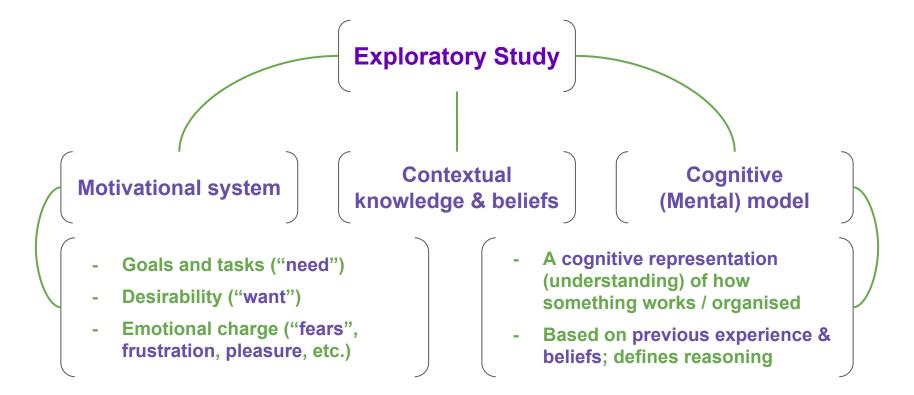








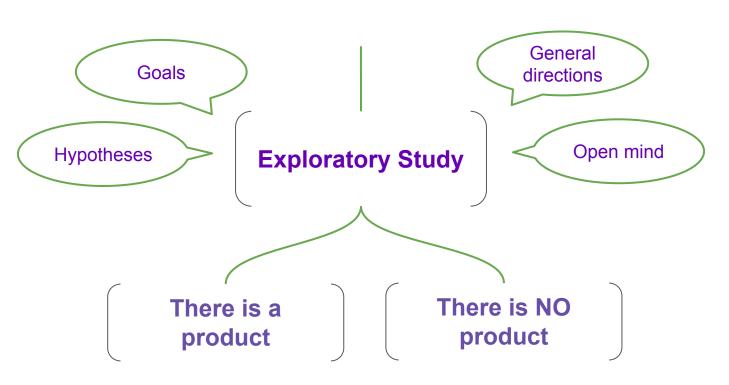














### There is a product

- True-Intent Studies
- Remote Unmoderated Usability Studies
- Intercept Surveys
- Clickstream Analysis
- Questionnaires
- Observations
- Interviews

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

There is NO product

Contextual inquiry



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

- Ask about user's goals and/or intentions when they entering the service
- Track their subsequent behavior
- Ask if they were successful in achieving their goal

- Questionnaires
- Observations
- Interviews

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



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

- Quantitative/qualitative automated method
- Captures behaviors (through software on participant device) and attitudes (through embedded survey questions)
- Usually includes goals/scenarios

- Questionnaires
- Observations
- Interviews

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



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

- A survey triggered during the use of a product
- Usually very short

- Questionnaires
- Observations
- Interviews

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



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

- Analyzing the record of elements that users clicks on/views, as they use a software product
- Requires proper software instruments / tools for telemetry data collection enabled

- Questionnaires
- Observations
- Interviews

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



### There is a product

- True-Intent Studies
- Remote Unmoderated Usability Studies
- Intercept Surveys
- Clickstream Analysis
- Questionnaires
- Observations
- Interviews

Diary/Camera Studies

- Participatory Design
- Ethnographic Field
  - Studies

There is NO product

Contextual inquiry



- Questionnaires
- Observations
- Interviews

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



- Questionnaires
- Observations
- Interviews

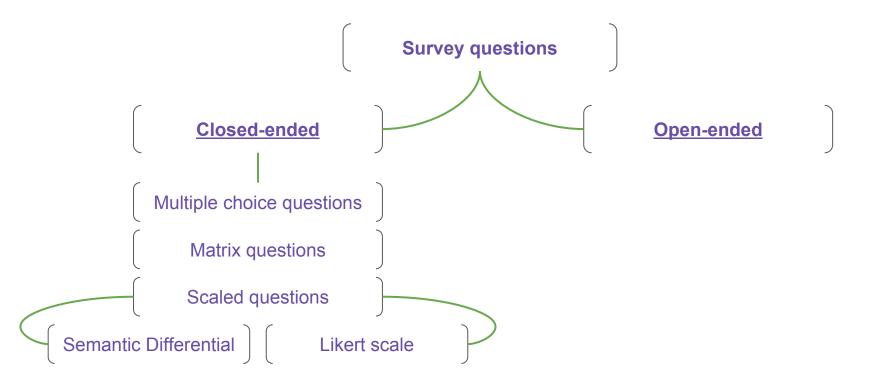
- Diary/Camera Studies
  Participatory Design
- Ethnographic Field Studies
- Contextual inquiry

- Predefined series of written questions
- Usually relatively large samples fast and cheap method
- Often used remotely
- Better to keep within 20-25 questions

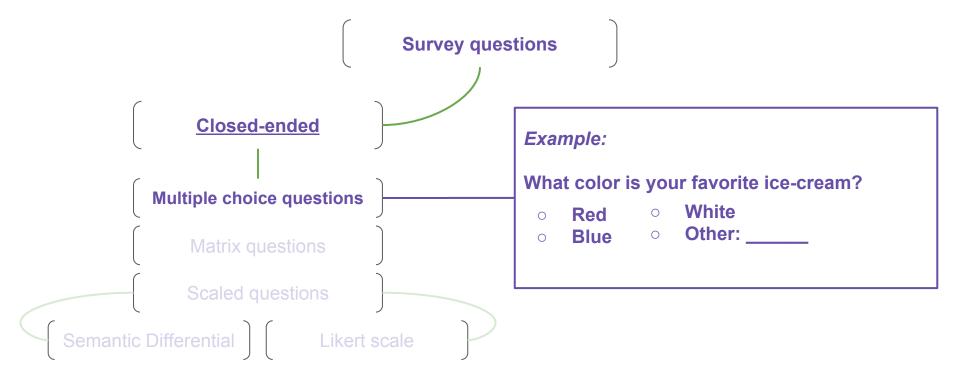




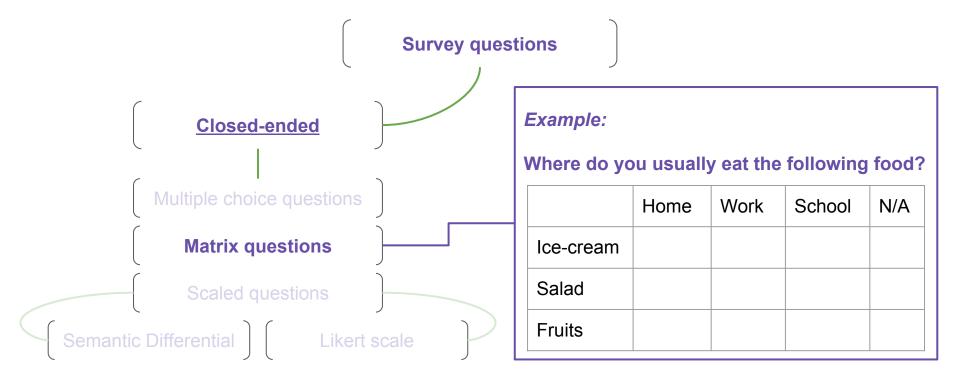




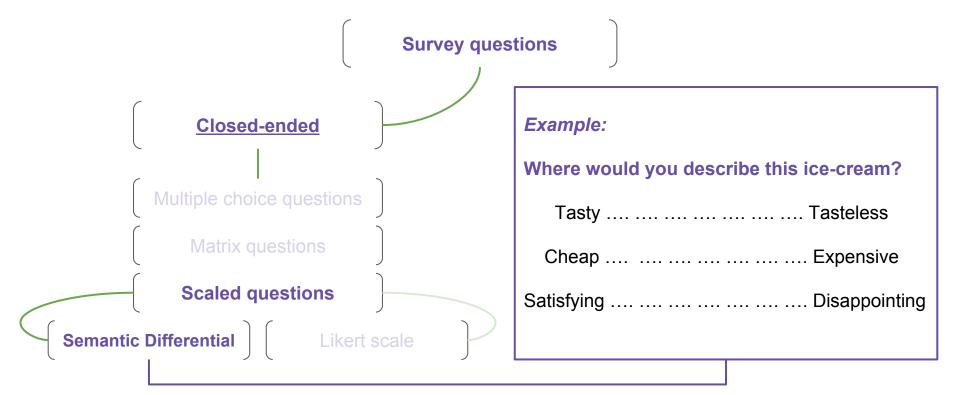




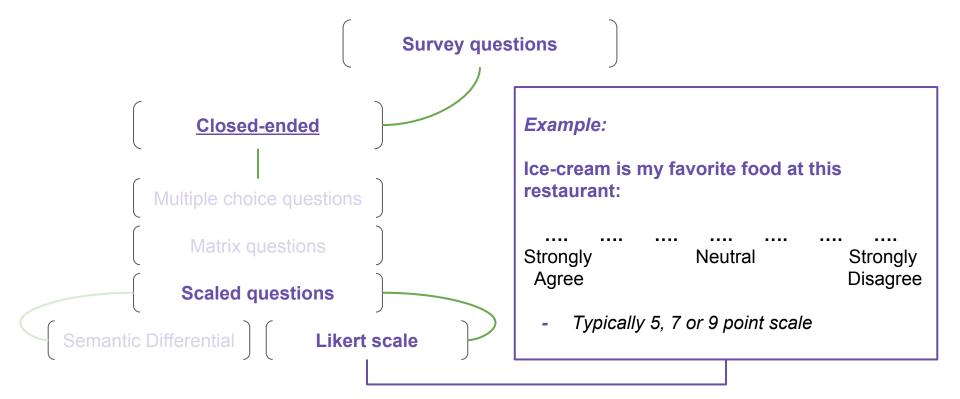




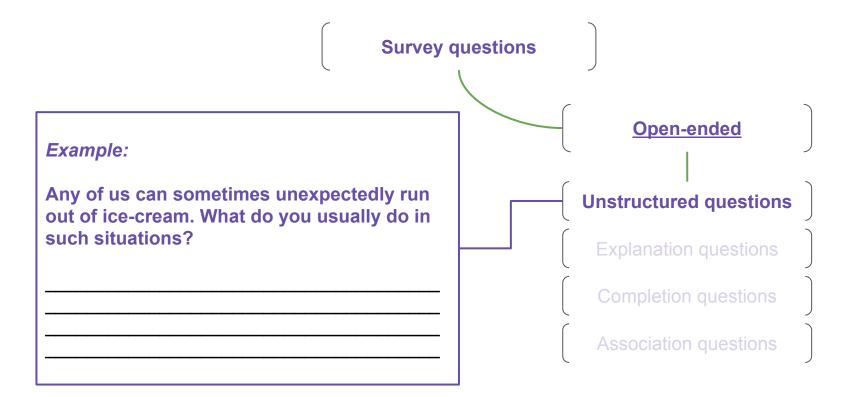




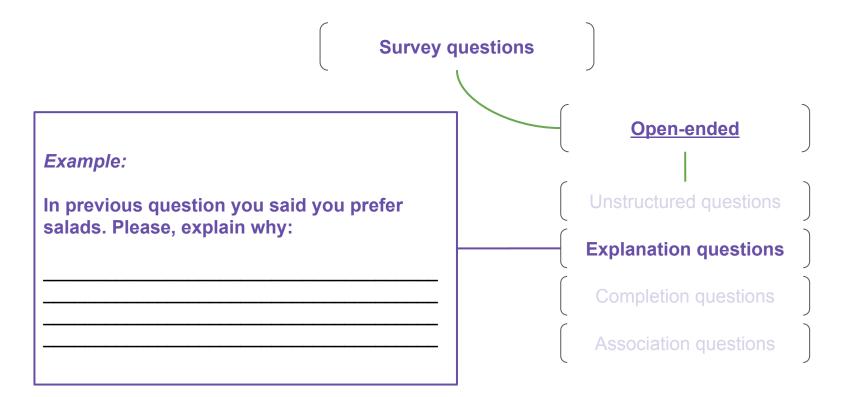




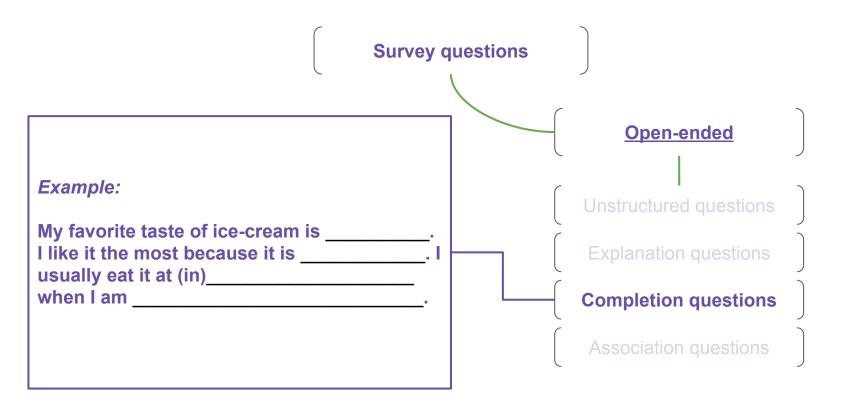




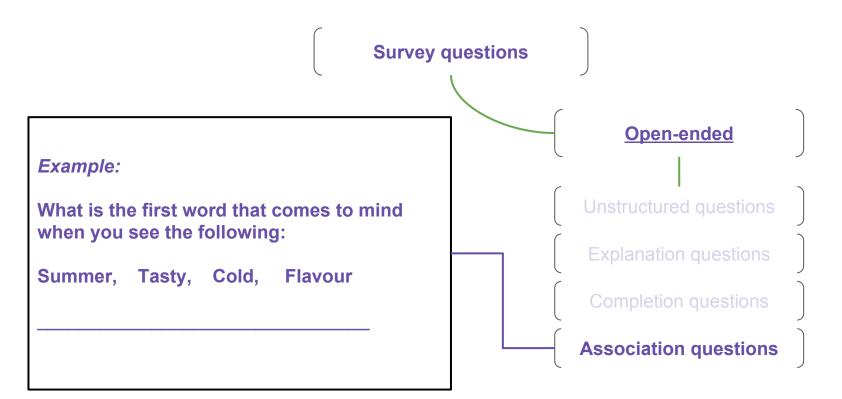




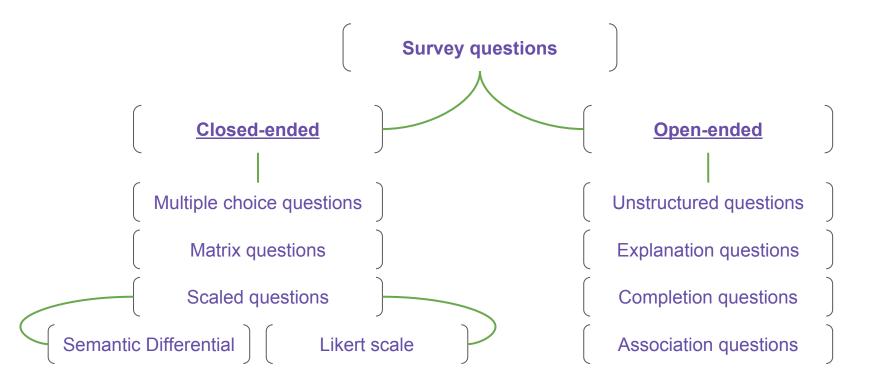










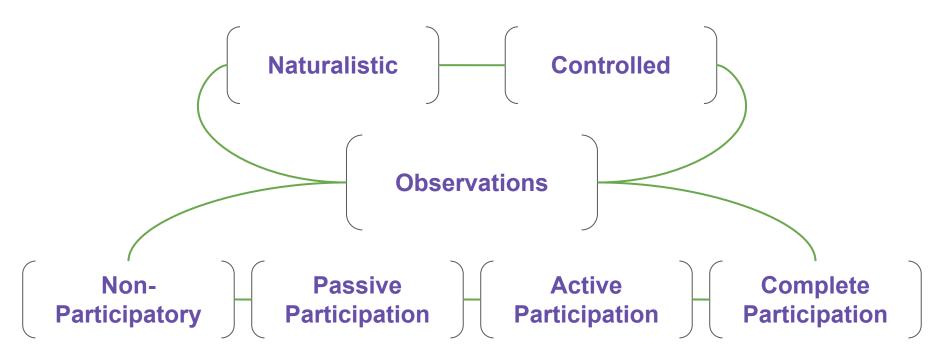




- QuestionnairesObservationsInterviews
- Diary/Camera Studies
  Participatory Design
- Ethnographic Field Studies
- Contextual inquiry

- 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

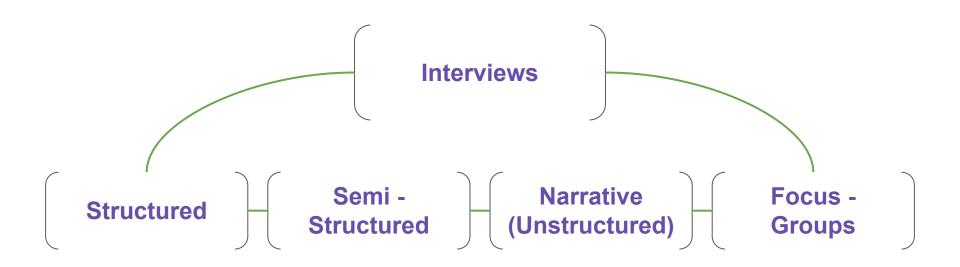
Diary/Camera Studies

- 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**

