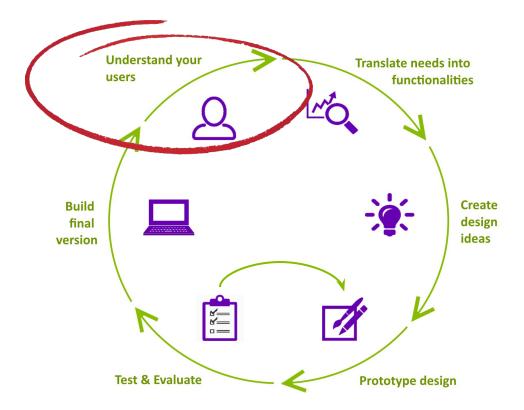
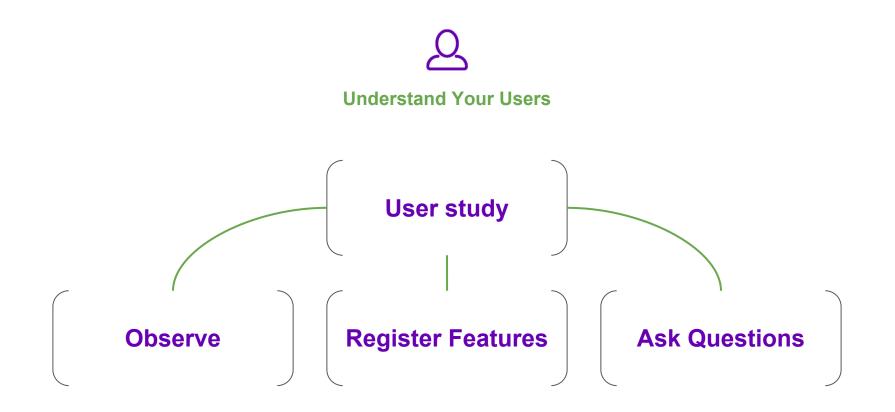
CS449/649: Human-Computer Interaction

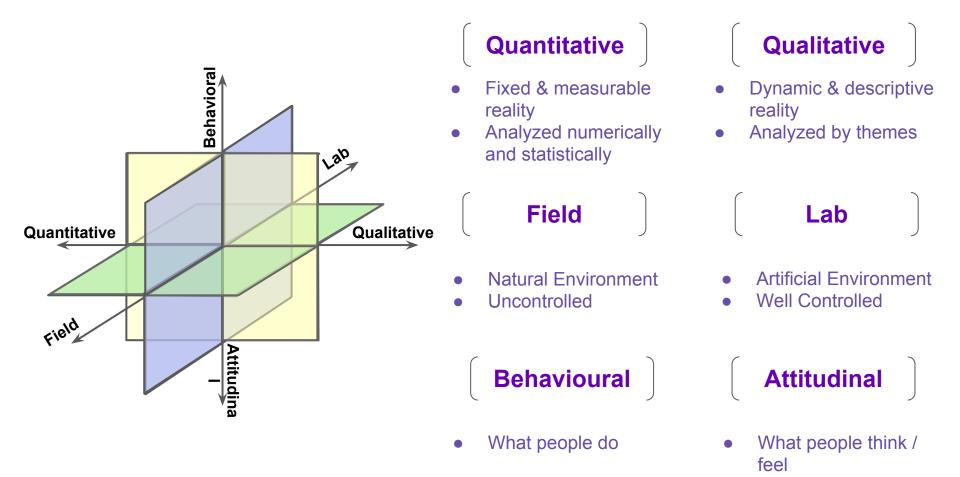
Spring 2017

Lecture III

Anastasia Kuzminykh







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

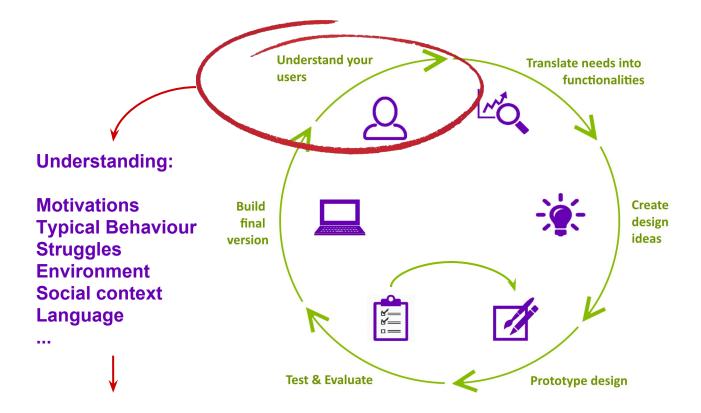
- Dynamic & descriptive reality
- Analyzed by themes

Lab

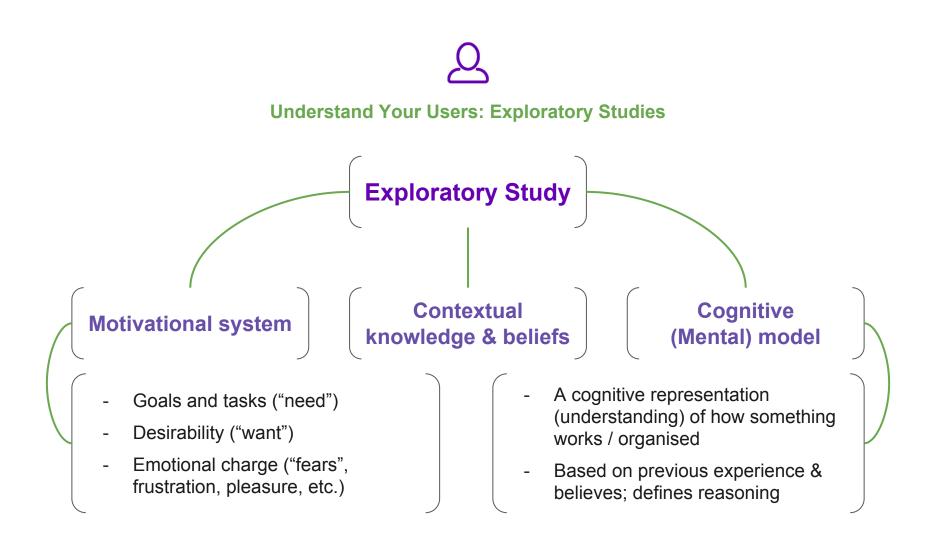
- Artificial Environment
- Well Controlled

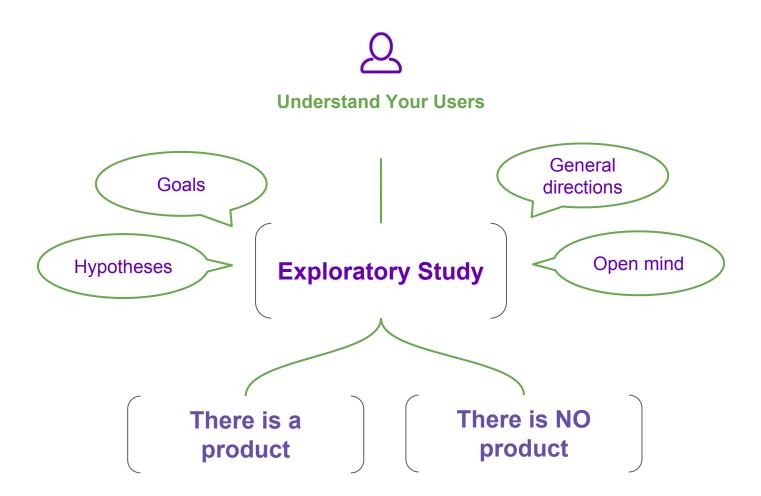
Attitudinal

• What people think / feel



Exploratory Study







There is NO product There is a product True-Intent Studies Remote Unmoderated **Usability Studies** Intercept Surveys **Clickstream Analysis** Questionnaires Ethnographic Field **Diary/Camera Studies** Studies Observations Participatory Design Interviews

Contextual inquiry •



There is a product

• 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

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

- Ethnographic Field Studies
- Contextual inquiry

൧

Understand Your Users: Exploratory Studies

There is a product

- 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

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

- Ethnographic Field Studies
- Contextual inquiry



There is a product

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

Clickstream Analysis

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

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

- Ethnographic Field Studies
- Contextual inquiry



There is a product

- 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

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

- Ethnographic Field Studies
- Contextual inquiry

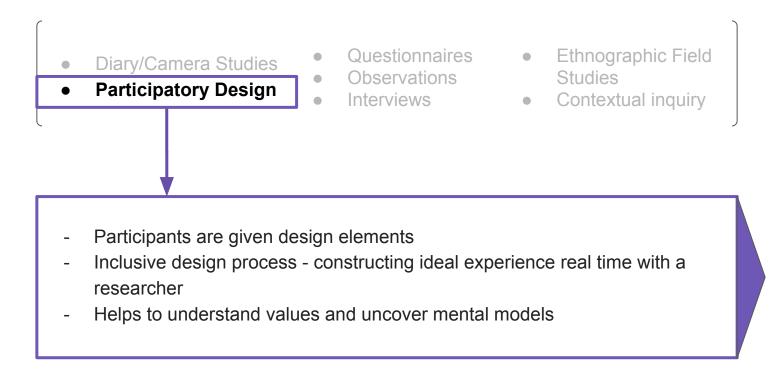




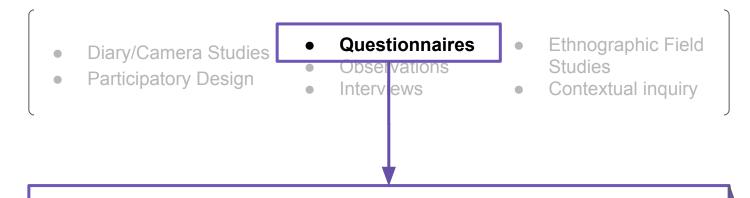
- Participatory Design
- Questionnaires Observations
- Interviews

- Ethnographic Field Studies
- Contextual inquiry

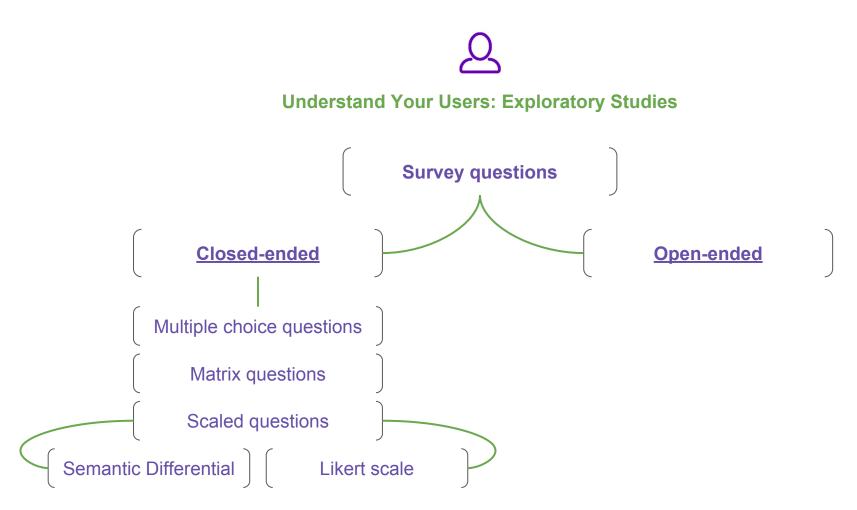
- Includes a mechanism (diary or camera) to record / describe relevant activities in "every-day" settings
- Longitudal
- Data recorded by participants based on provided guidelines



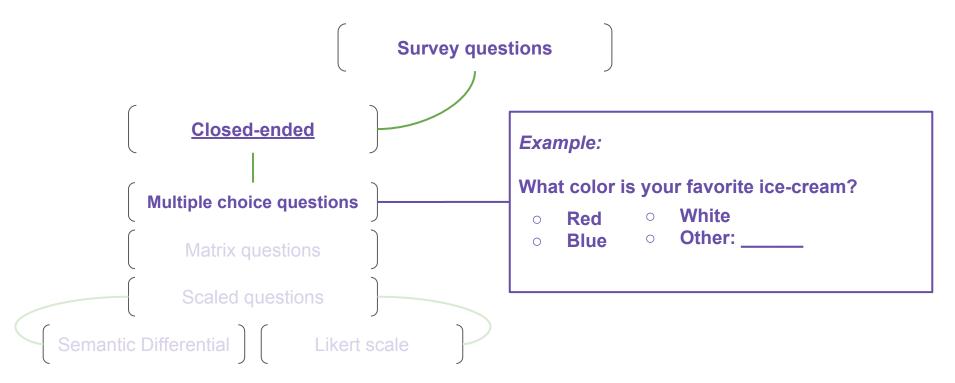




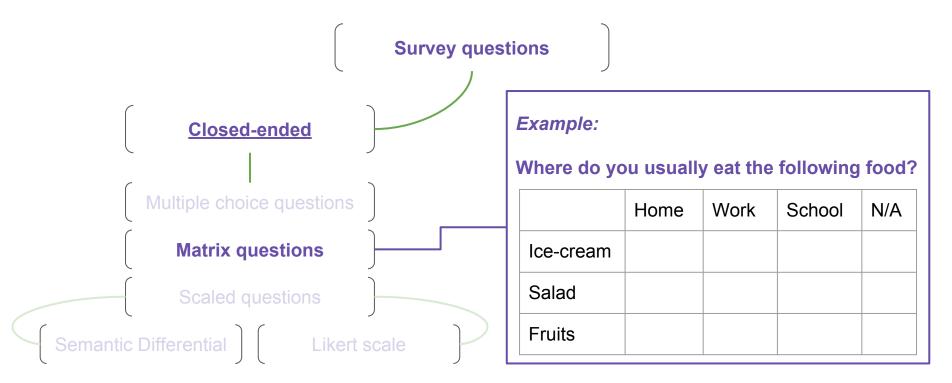
- Predefined series of written questions
- Usually relatively large samples fast and cheap method
- Often used remotely
- Better to keep within 20-25 questions



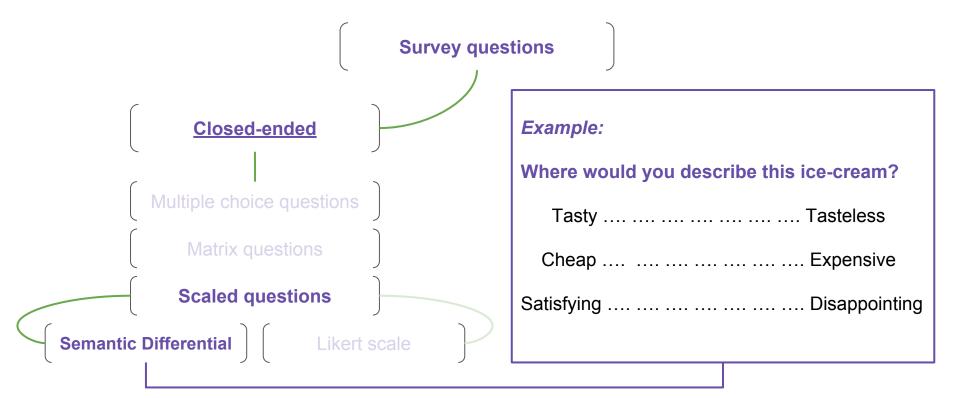




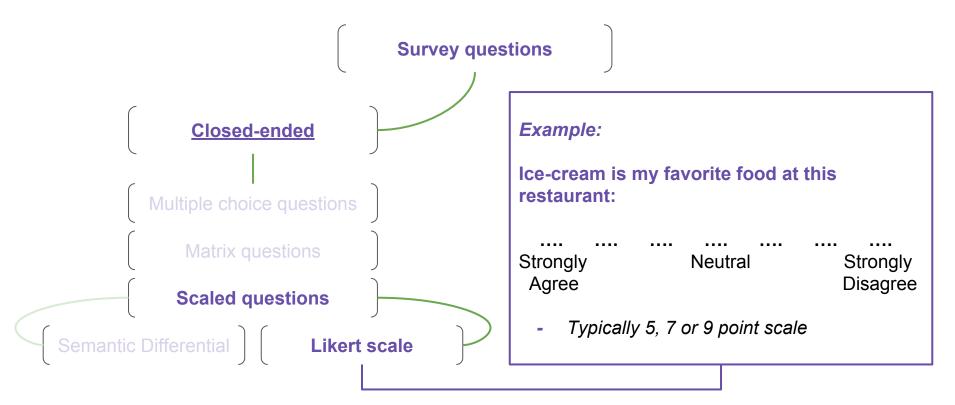




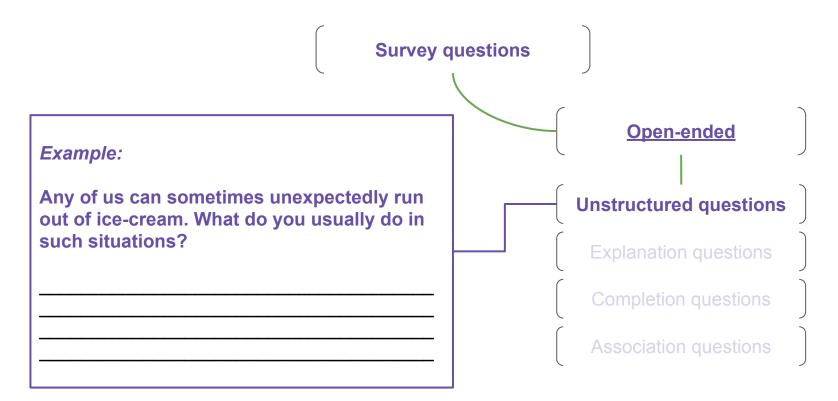




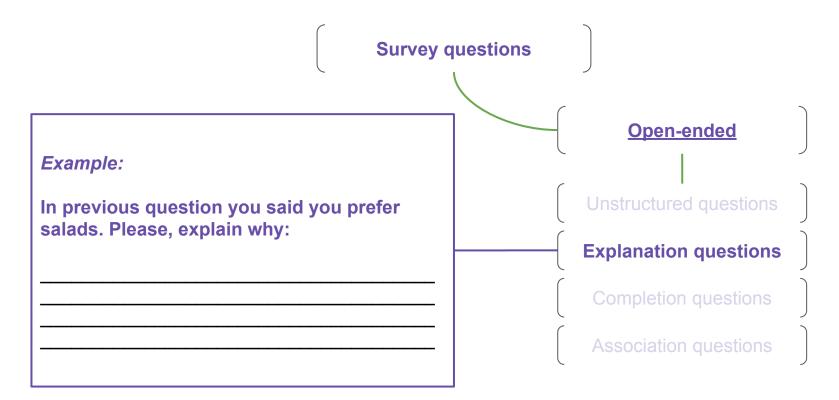




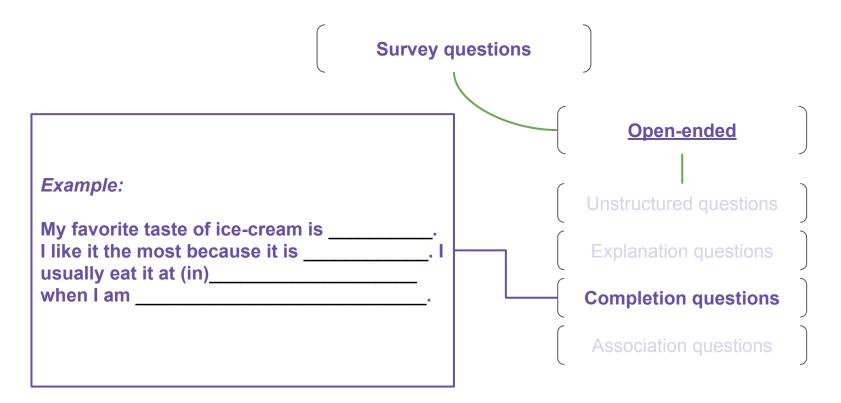




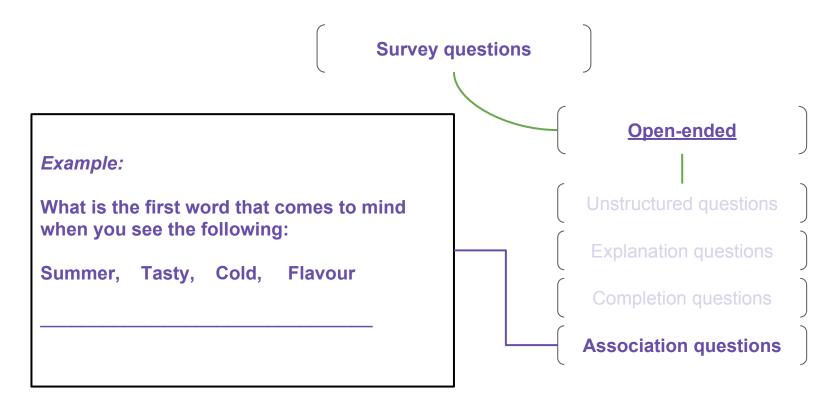




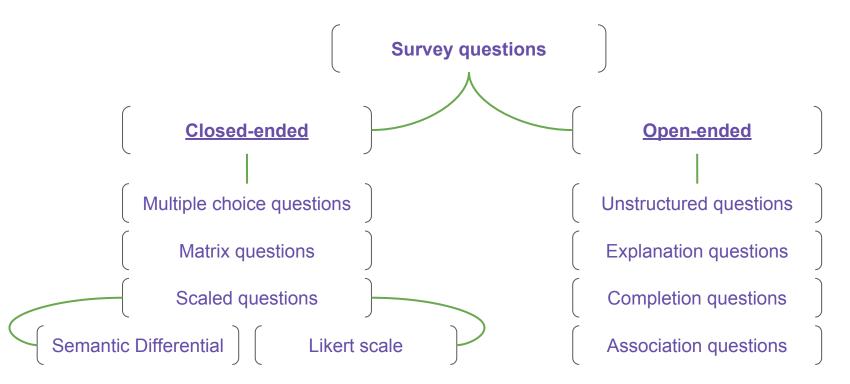




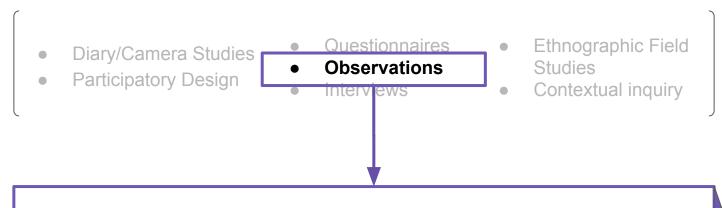










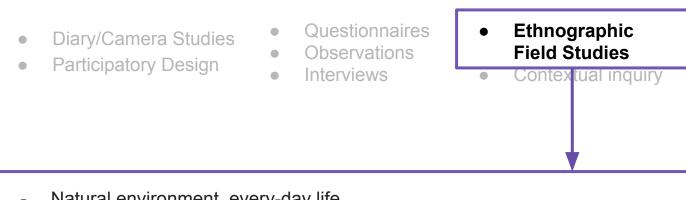


- Observing participants performing some type of activity (ongoing behaviour)
- Can be controlled (lab) or naturalistic (field)
- Different possible levels of participation
- Written or video recording (requires consent!)



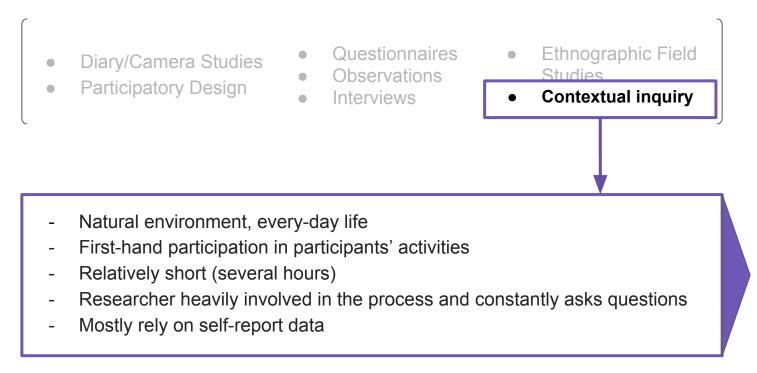






- Natural environment, every-day life
- First-hand participation in users" activities
- Description of the scene, key events, key actors, key artifacts and actions
- Combination of observations and interviews
- Focus on objective behaviours







There is a product True-Intent Studies

- Remote Unmoderated Usability Studies
- Intercept Surveys
- Clickstream Analysis

There is NO product

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

- Ethnographic Field Studies
- Contextual inquiry

