

CS449/649: Human-Computer Interaction

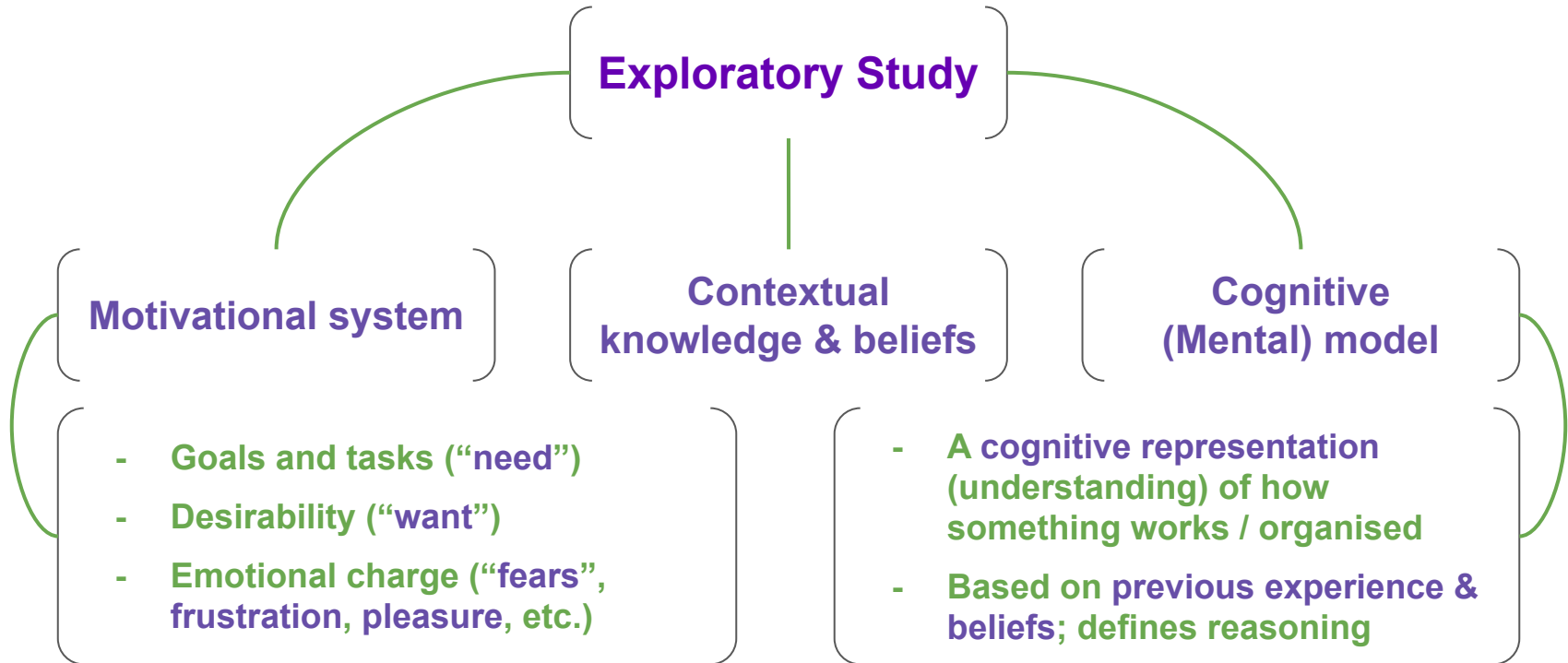
Spring 2019

Lecture V

Anastasia Kuzminykh and Edward Lank



Understand Your Users: Exploratory Studies





Understand Your Users: Exploratory Studies

There is a product

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

There is NO product

- Questionnaires
- Observations
- Interviews
- Diary/Camera Studies
- Participatory Design
- Ethnographic Field Studies
- Contextual inquiry



Understand Your Users: Exploratory Studies

- Questionnaires
- Observations
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Understand Your Users: Exploratory Studies

- **Questionnaires**

- Observations
- Interviews

- Diary/Camera Studies
- Participatory Design

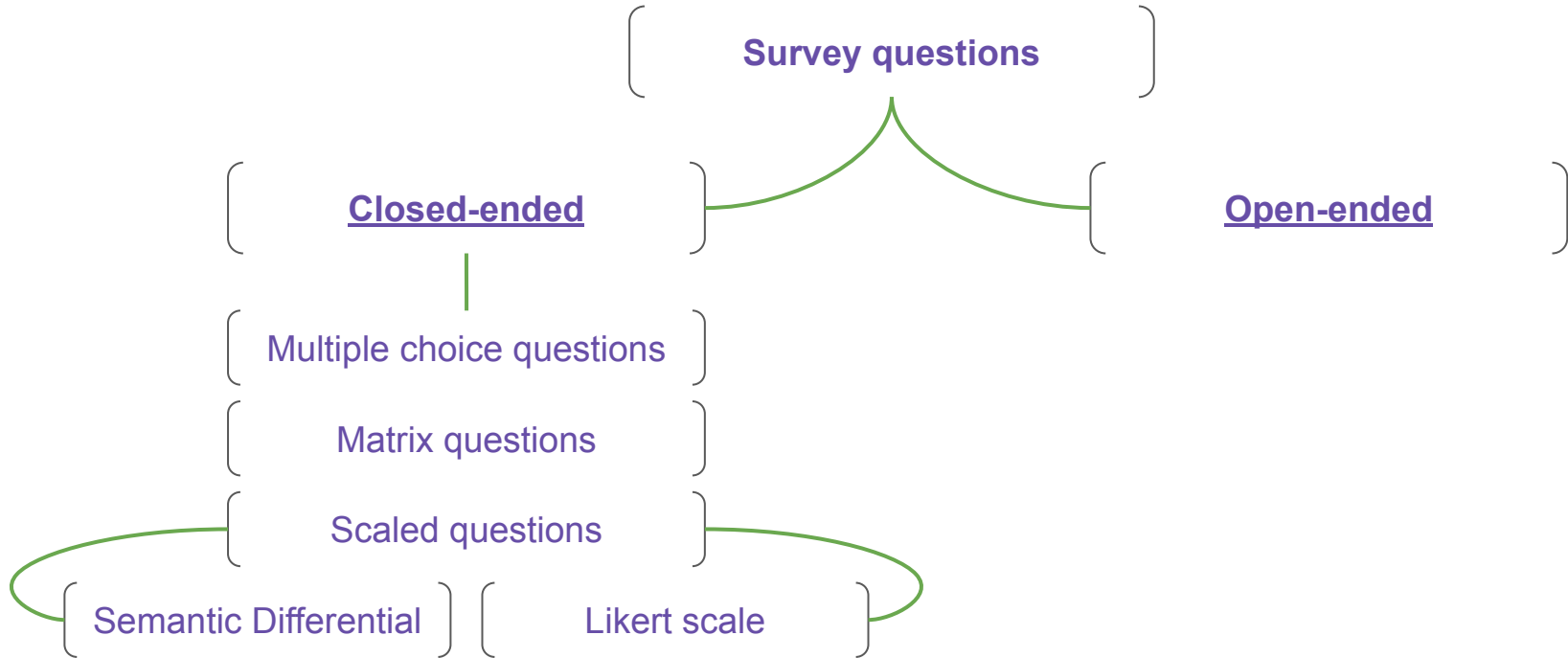
- Ethnographic Field Studies
- Contextual inquiry

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

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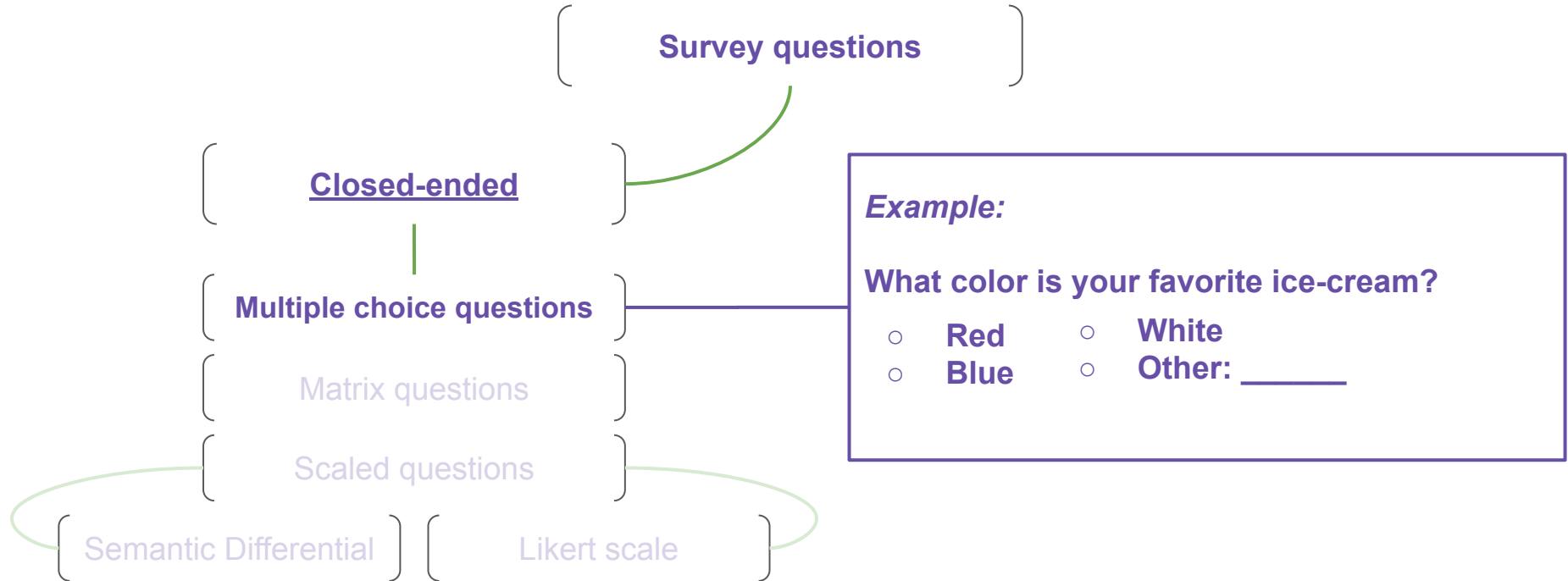


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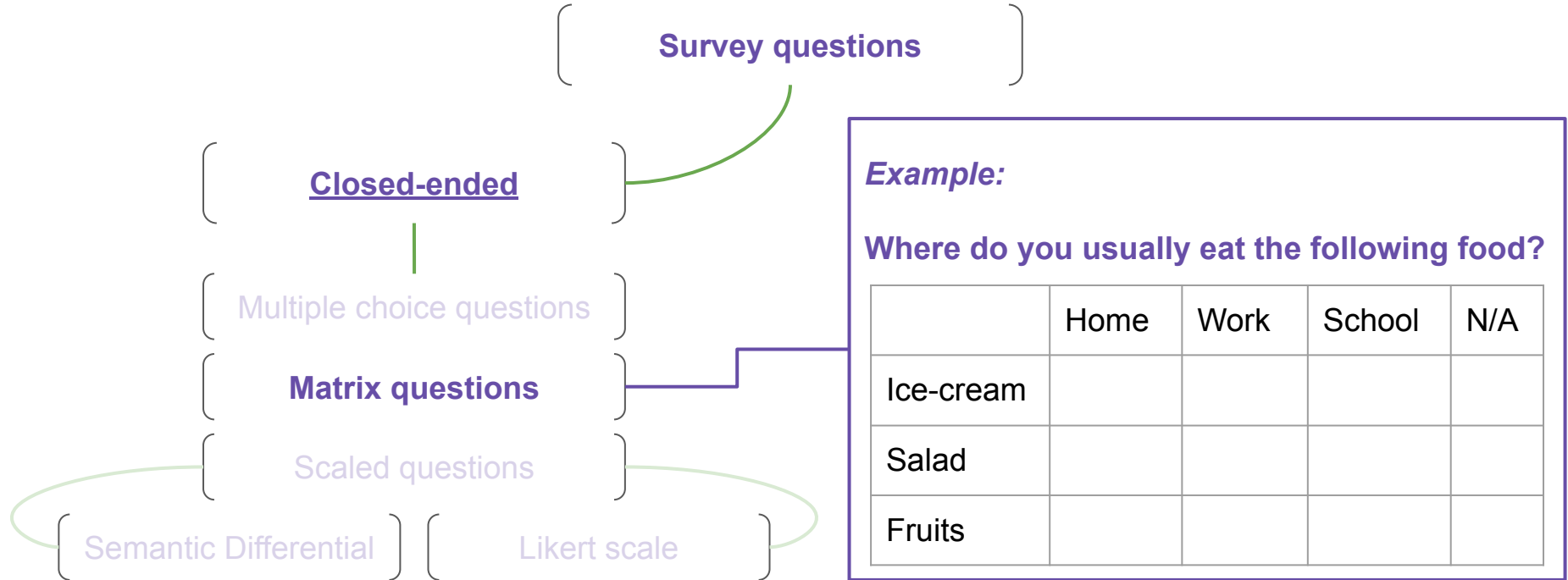


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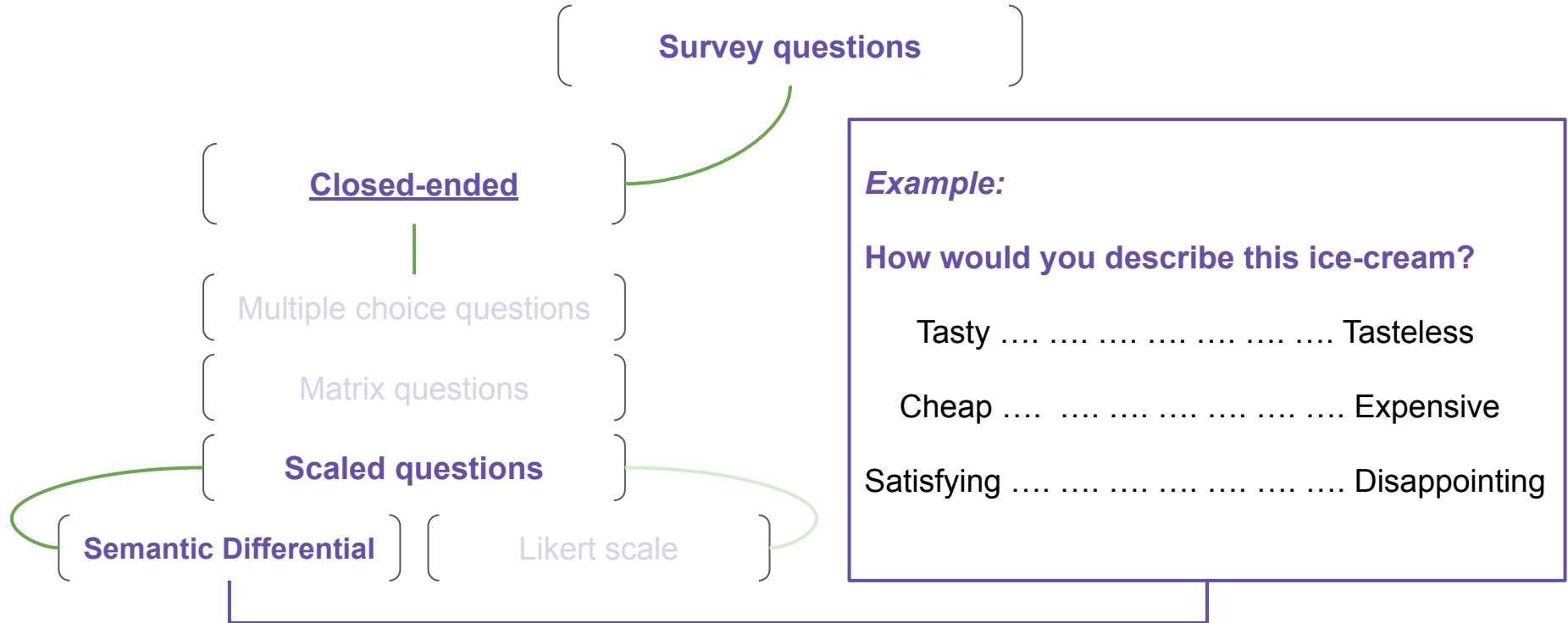


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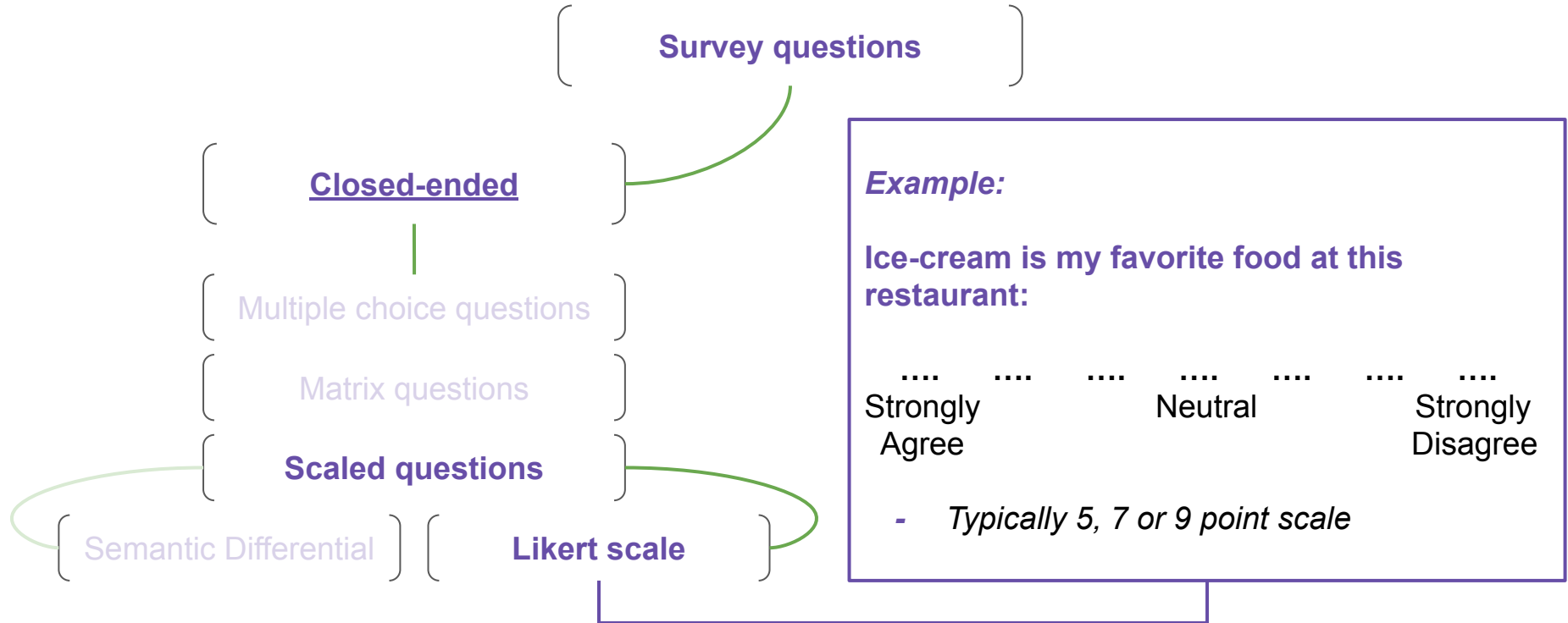


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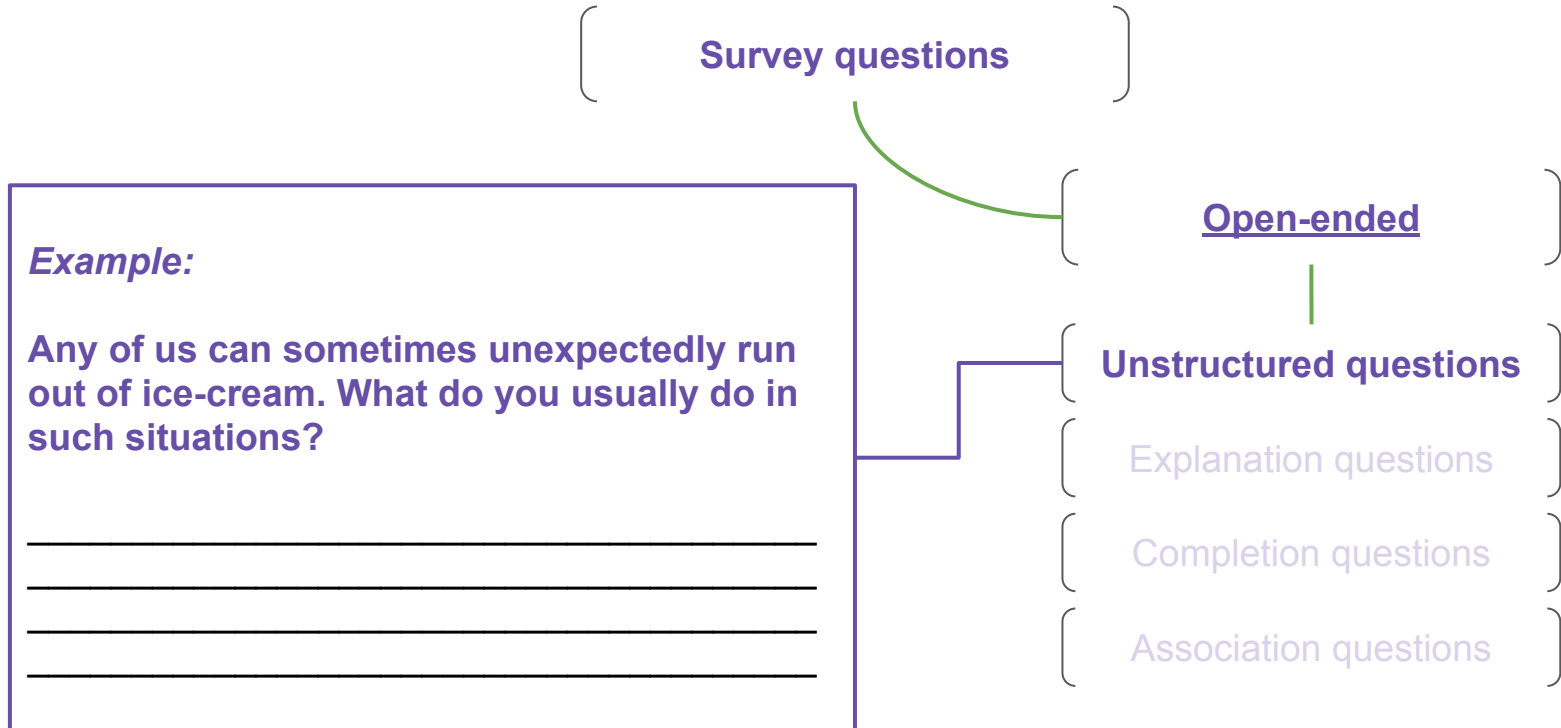


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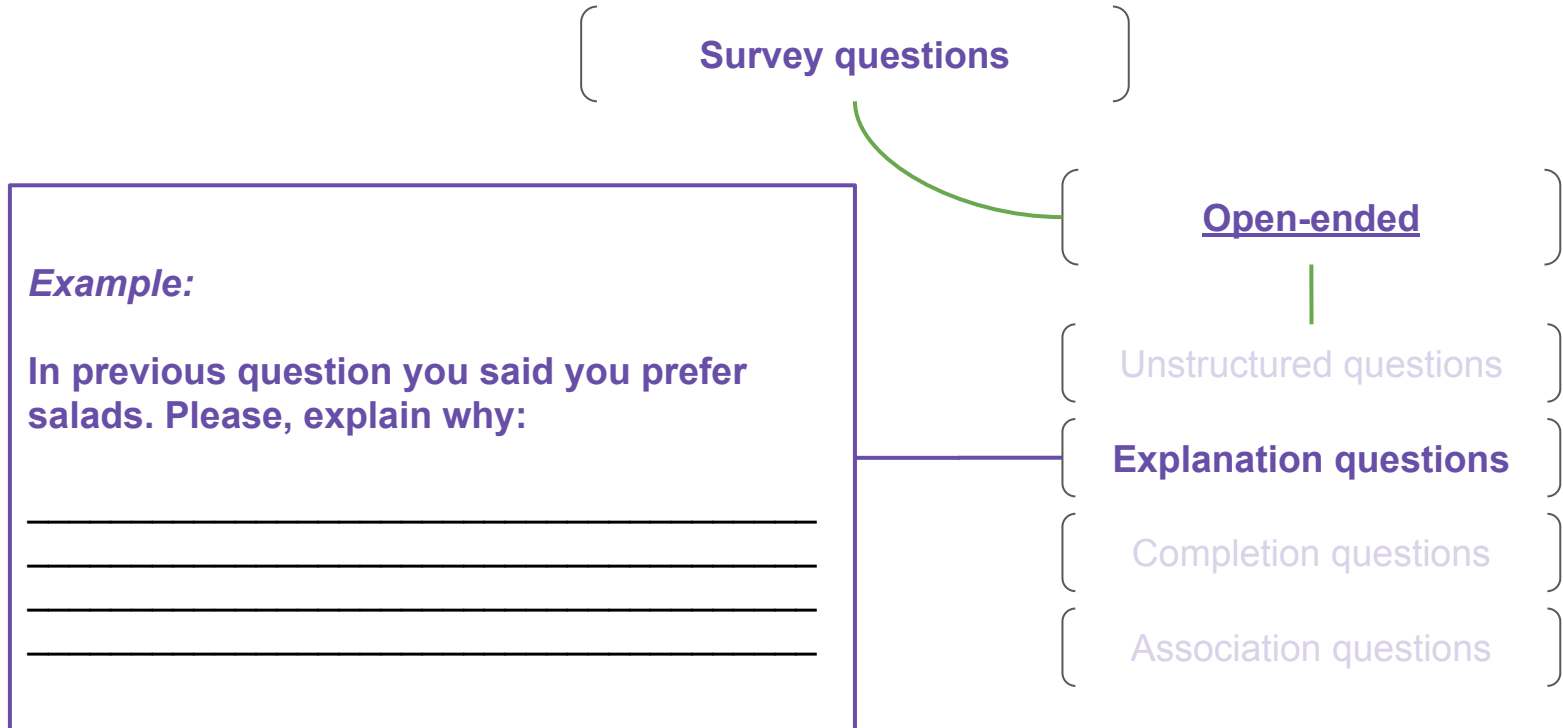


Understand Your Users: Exploratory Studies





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Understand Your Users: Exploratory Studies

Survey questions

Open-ended

Unstructured questions

Explanation questions

Completion questions

Association questions

Example:

My favorite taste of ice-cream is _____.
I like it the most because it is _____. I
usually eat it at (in) _____
when I am _____.



Understand Your Users: Exploratory Studies

Survey questions

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Association questions

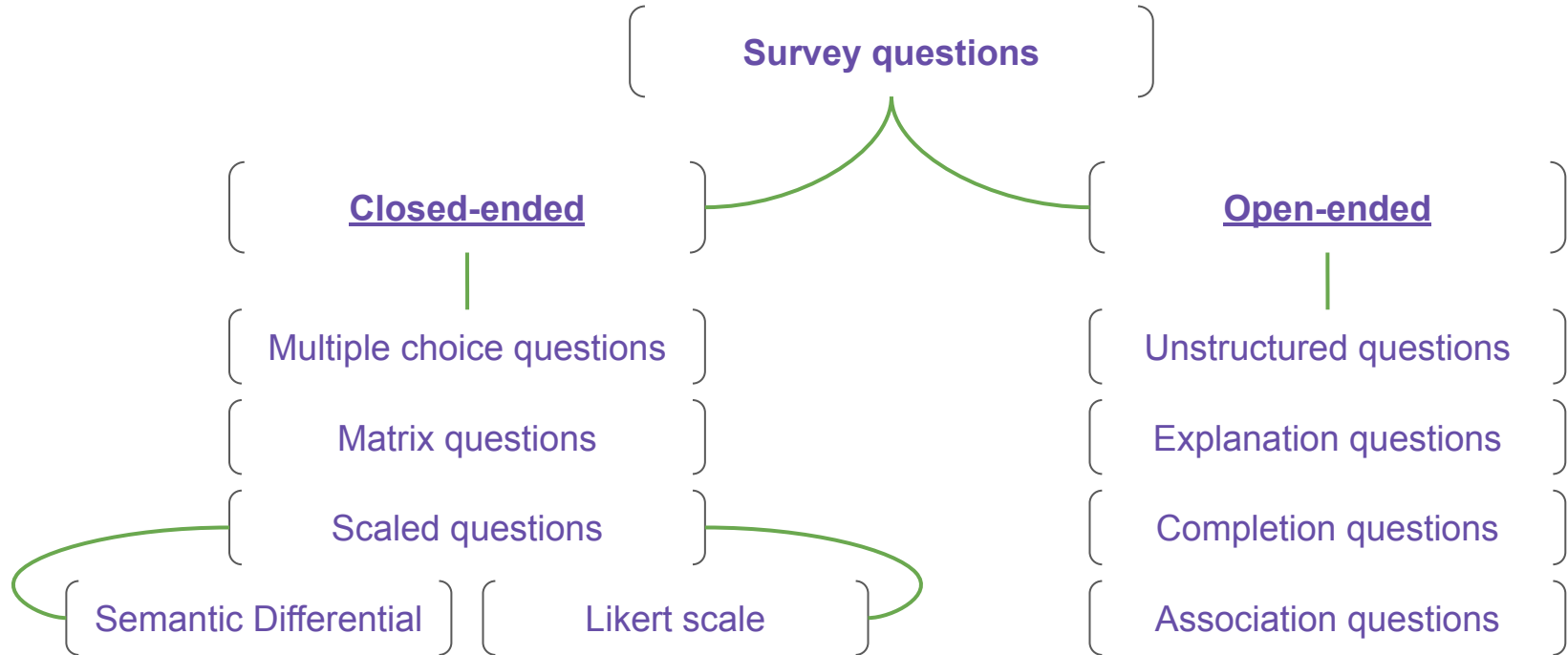
Example:

What is the first word that comes to mind
when you see the following:

Summer, Tasty, Cold, Flavour

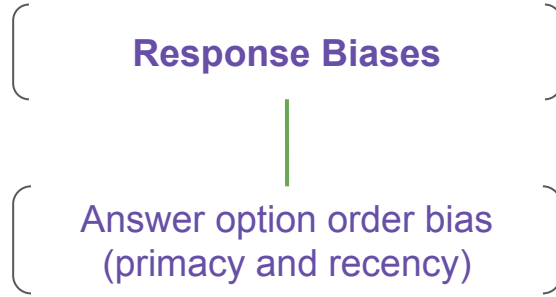


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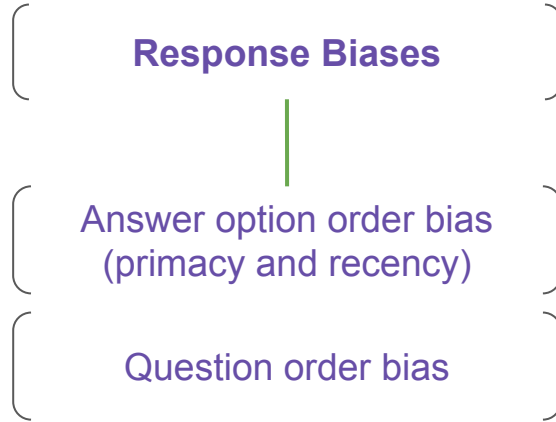


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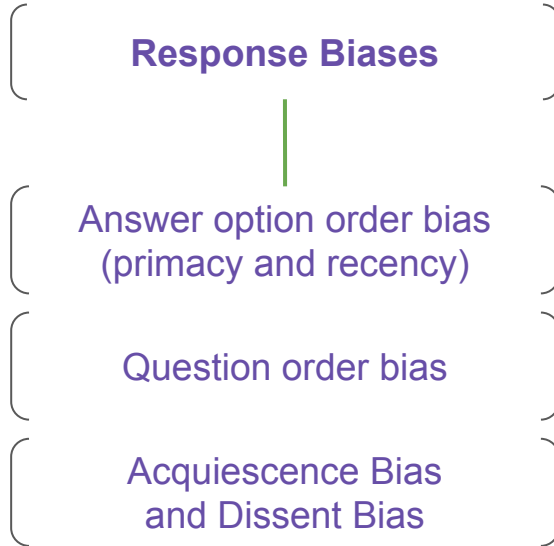


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Response Biases

Answer option order bias
(primacy and recency)

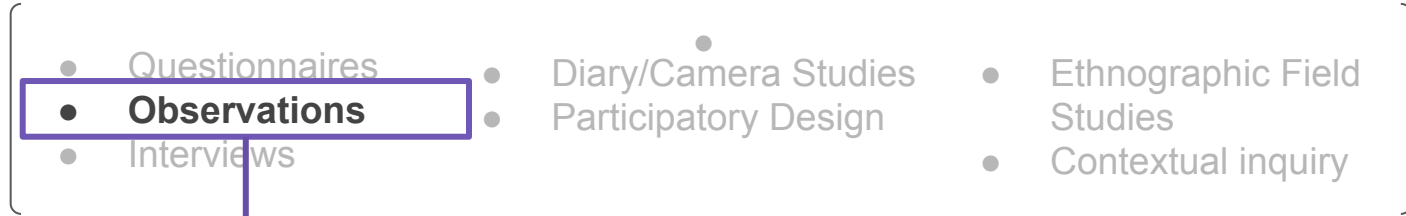
Question order bias

Acquiescence Bias
and Dissent Bias

Extreme Responses



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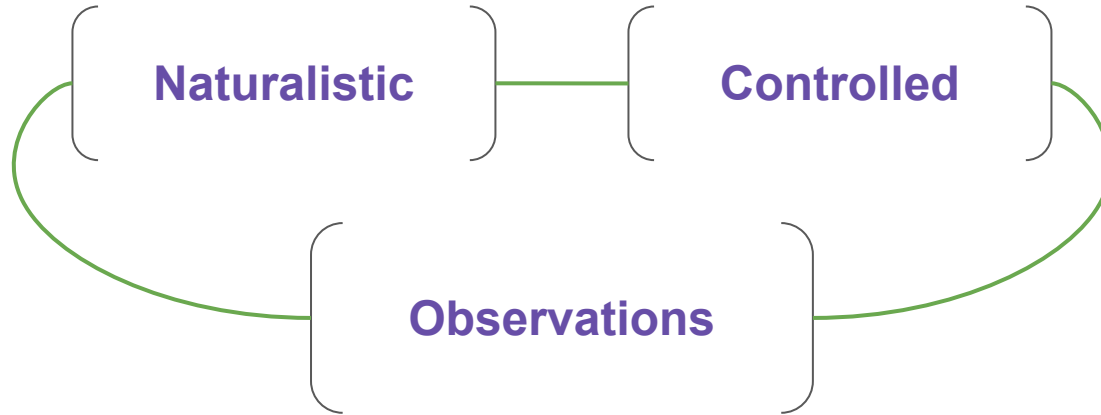


- Observing participants performing some type of activity (ongoing behaviour)
- Can be controlled (lab) or naturalistic (field)
- Different possible levels of participation
- Written or video recording (requires consent!)

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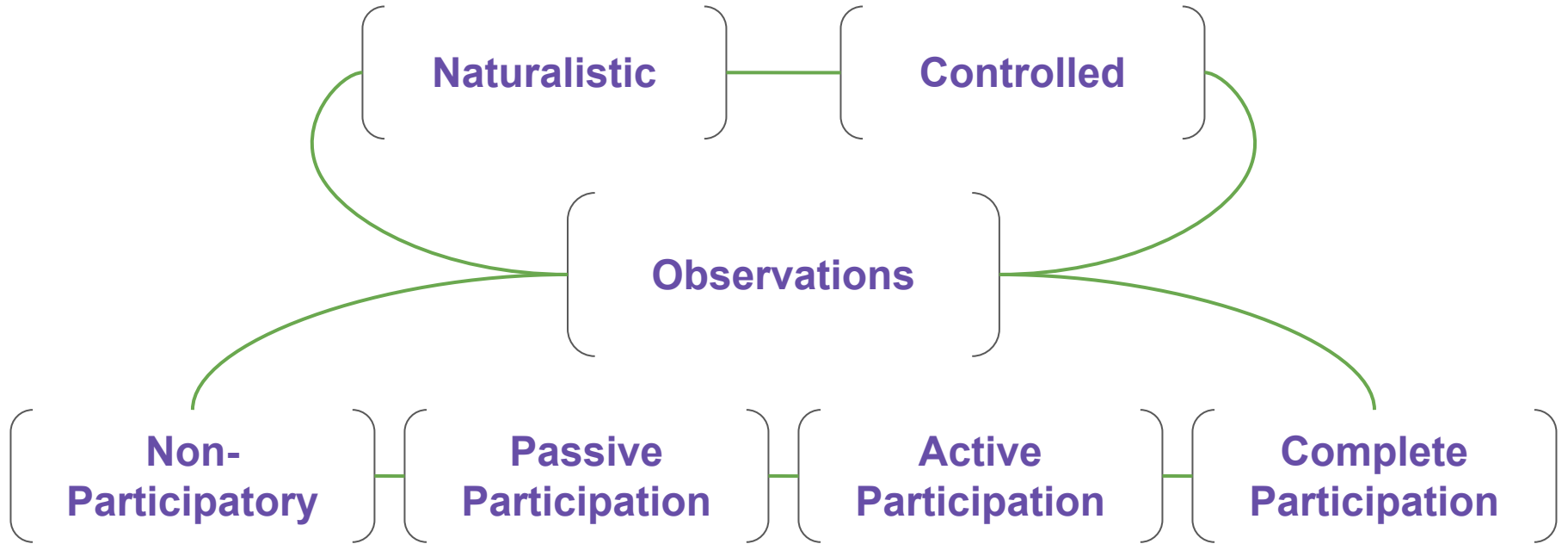


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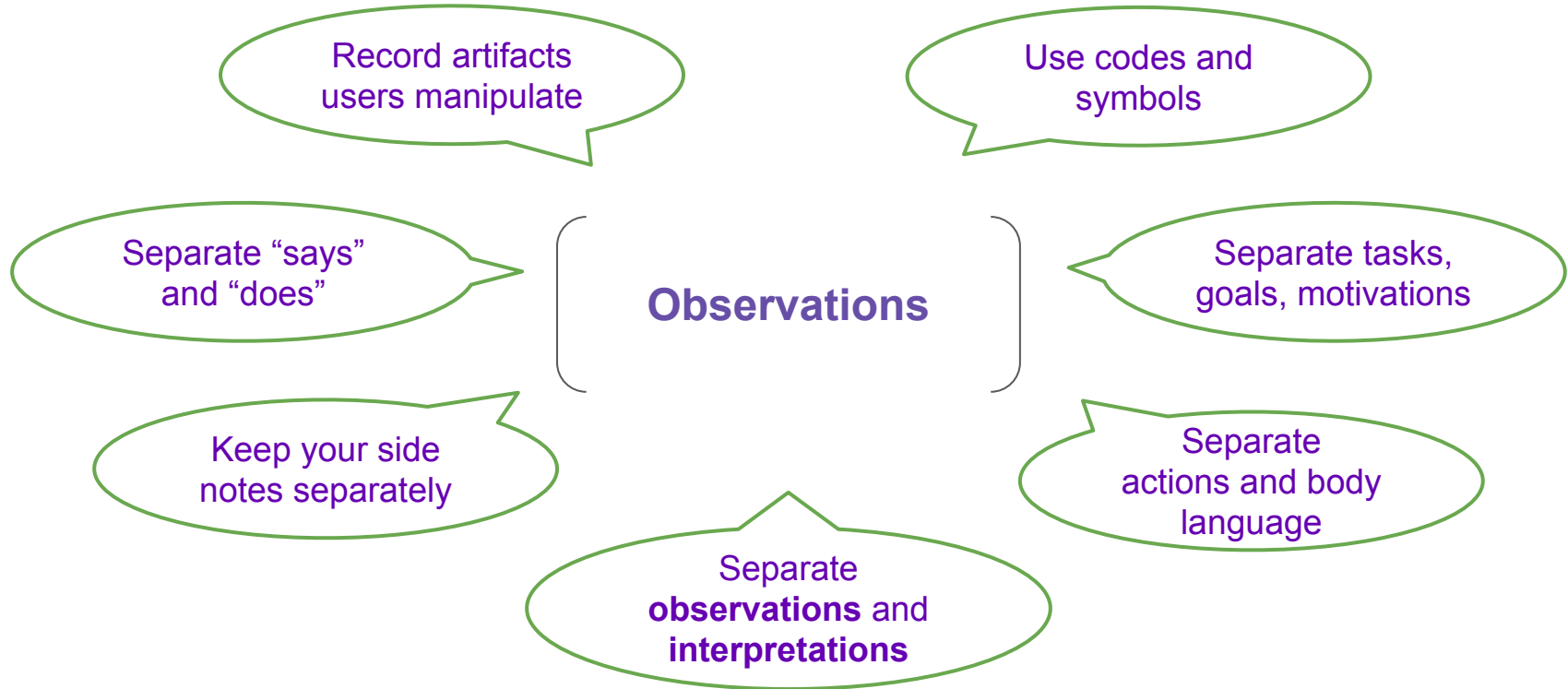


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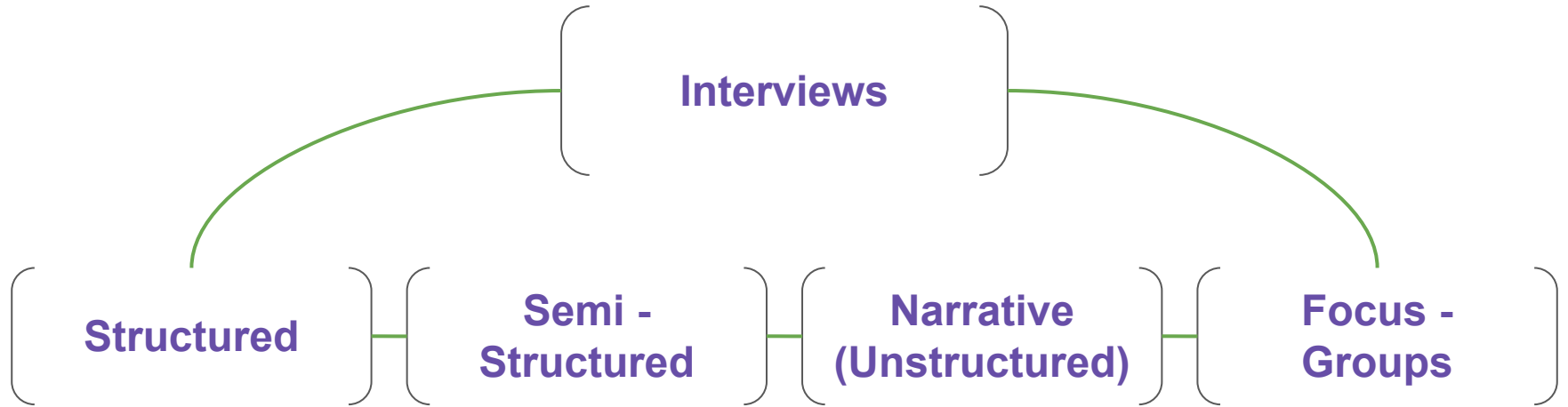
- Questionnaires
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- **Interviews**
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- In depth discussion of the topic with a participant
- Usually one-on-one
- Written, audio, video recording options (requires consent!)

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Understand Your Users: Interview





Understand Your Users: Interview

Structured

- Same set of questions
- Standardized process
- Little freedom of expression
- Often self-reported

Semi - Structured

- List of guiding questions / topics
- Trajectories in a conversation
- Often preceded by observation
- One of the most popular

Narrative (Unstructured)

- Focus and goal guide the discussion
- Open-ended questions
- Freedom of expression & little control
- Popular in ethnography

Focus - Groups

- Semi-structured in a group
- Moderated
- 6-10 homogeneous strangers
- May permit discussion
- Emerged in the 1940s



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