



Leverhulme Centre for Integrative  
Research on Agriculture and Health

## Qualitative methods in Agriculture, Nutrition and Health research

ANH Academy Week 2018  
Accra, Ghana

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# Session Plan

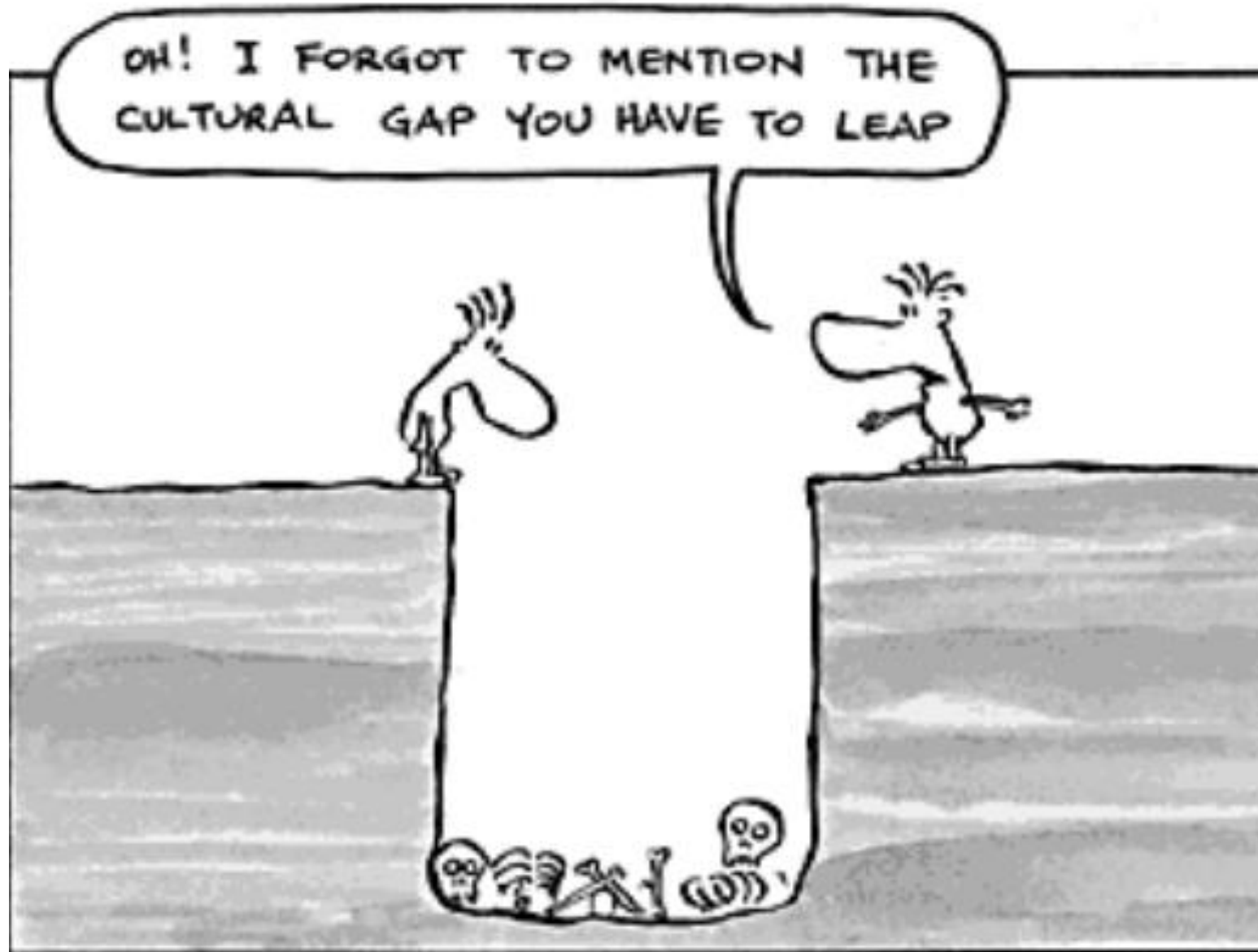
- Introduction to qualitative research
- Overview of qualitative methods
- Activity 1: interviewing (part A)

## *Lunch break*

- Activity 1: interviewing (part B)
- Activity 2: coding a transcript
- Wrap-up and feedback

# Introductions / Discussion

- Group introductions:
  - who are you?
  - what do you do?
- What's the main question or aspect about qualitative research that you would like to answer or understand?  
*(Put key questions on post-its)*



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**How and why events or behaviours occur in complex settings where context is important to understanding**

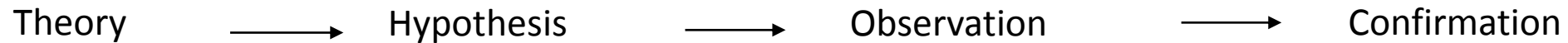
Qualitative paradigm		Quantitative paradigm
<p>How and why events or behaviors occur in complex settings where context is important to understanding:  <i>Examples: How do a diverse student body and faculty affect teaching and learning? How does a resident make the transition to attending physician? What characterizes the phenomenon of a mentor-mentee relationship?</i></p>	<b>Nature of the research question</b>	<p>How many, how often, what level, and what direction of relationships between defined variables in settings that can be decontextualized:  <i>Examples: What is the relationship between student grades and graduation rates? What type and amount of monetary incentive or financial reward affects a medical student's specialty choice?</i></p>
<p>Inductive by researchers (e.g., normative or transcribed text analyzed thematically for patterns)</p>	<b>Nature of data and analysis</b>	<p>Deductive by statistics (e.g., data and patterns analyzed through statistical means)</p>
<ul style="list-style-type: none"> <li>• Case study: An in-depth study of a particular case, which can be descriptive, explanatory, or exploratory</li> <li>• Ethnography: Research intended to provide descriptions of systems, processes, or phenomena within their specific context; stems from anthropology</li> <li>• Grounded theory: A theory developed based on the examination of data (rather than applying a predetermined theory)</li> <li>• Historiography: Research directed at the study of a past event, issue, or problem that uses information from the past</li> <li>• Phenomenology: The study of individuals' perspectives on particular phenomena</li> <li>• Action research: A reflective and team-based approach led by those involved in solving a particular problem</li> <li>• Mixed methods: A combination of quantitative and qualitative approaches including triangulation design, embedded design, explanatory design, and exploratory design</li> </ul>	<b>Types of designs</b>	<ul style="list-style-type: none"> <li>• Experimental: The researcher manipulates all variables including the assignment to treatment and control groups in order to discern causality</li> <li>• Quasi-experimental: Research using an experimental variable with groups not formed through random assignment or selection</li> <li>• Surveys: Measurement procedures that involve asking questions of respondents</li> <li>• Mixed methods: A combination of quantitative and qualitative approaches including triangulation design, embedded design, explanatory design, and exploratory design</li> </ul>
<p>Normative data from interviews, documents, focus groups, and/or observations</p>	<b>Data sources</b>	<p>Ordinal or cardinal data from surveys, financial reporting, census reports, test scores, demographics, and/or observations</p>
<ul style="list-style-type: none"> <li>• Thematic analysis</li> <li>• Content analysis</li> <li>• Analysis of frequency</li> </ul>	<b>Analytic techniques</b>	<ul style="list-style-type: none"> <li>• Descriptive statistics</li> <li>• Regression</li> <li>• Regression discontinuity</li> <li>• Hierarchical linear modeling</li> </ul>
<ul style="list-style-type: none"> <li>• Internal validity (e.g., through triangulation, member checking, coding check)</li> <li>• External validity (e.g., through representativeness check)</li> <li>• Reliability (e.g., through chain of evidence and interrater reliability check)</li> </ul>	<b>Assessment of rigor</b>	<ul style="list-style-type: none"> <li>• Internal validity (e.g., through study design and procedures)</li> <li>• External validity (e.g., through criterion measurement)</li> <li>• Reliability (e.g., through test-retest, internal consistency)</li> </ul>

**How many, how often, what level, and what direction of relationships between defined variables in settings that can be decontextualized**

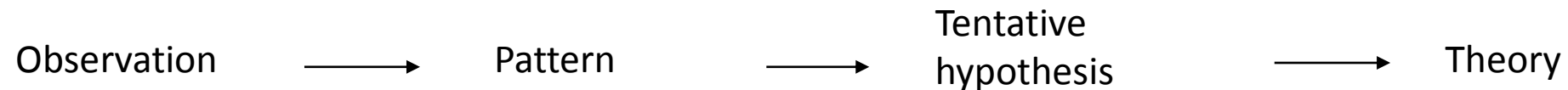
# Quantitative versus Qualitative Research

## Deductive and inductive reasoning

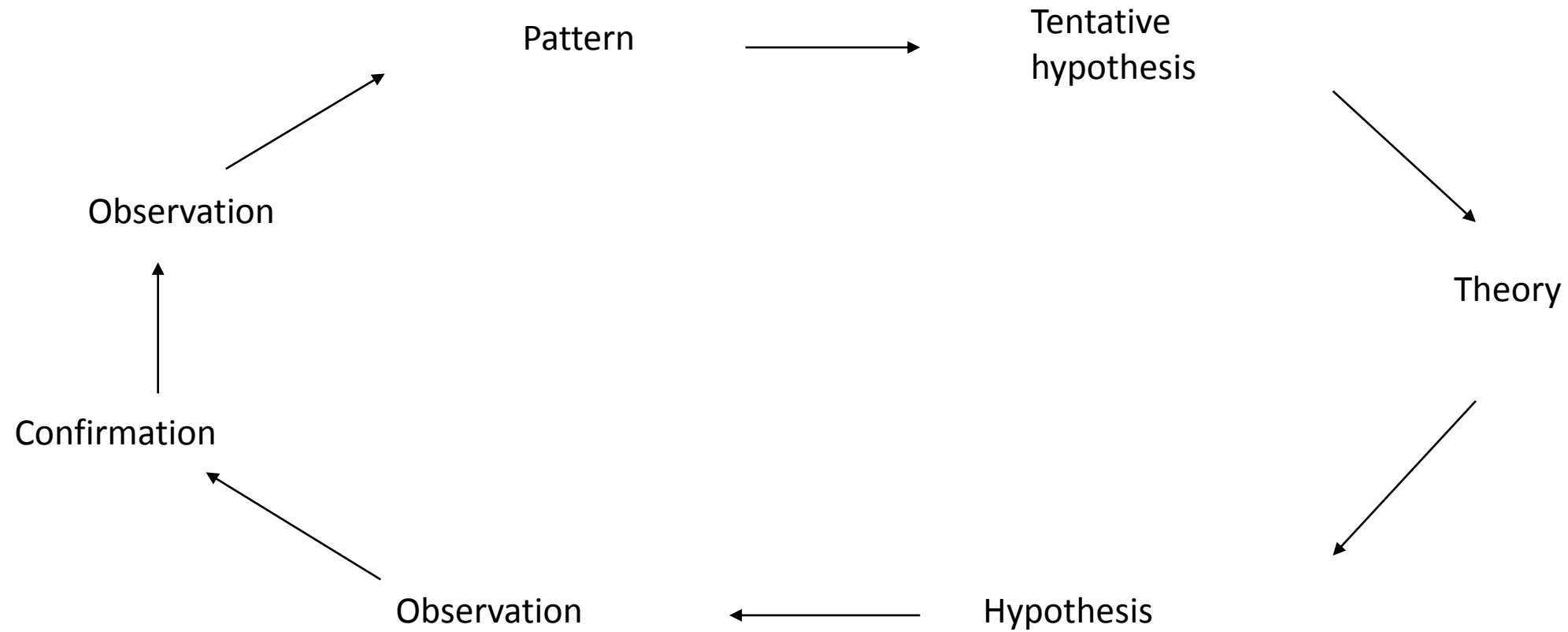
Deduction (typically quantitative):



Induction (typically qualitative):



# Combining inductive and deductive approaches



# Questions to help evaluate the validity of qualitative research

- **Is the sample used in the study appropriate to its research question?**

Purposive – who is more important than how many. Transparency: reasoning, background. Data saturation.

- **Is the data collected appropriately?**

Appropriate methods for the research question. Clearly explained. Systematically conducted. Thick description (context). Triangulation between several different methods and/or participants.

- **Is the data analysed appropriately?**

Clear, systematic analysis appropriate to data and approach (not quantified).

- **Can the conclusions be transferred to wider settings?**

Generation/furthering of theory. Use of relevant wider literature (e.g. topic/phenomena, method, region). What does it add to existing work and understandings? Implications and applicability (e.g. policy).

- **Does the study adequately address potential ethical issues, including reflexivity?**

Recognition of impact of researcher (presence, power, association, etc.). Negotiated consent and co-creation of data. Confidentiality and anonymity.

- **Overall: is what the researchers did clear?**

Transparency and reason. Clear descriptions of what done, how and why. Nuances.





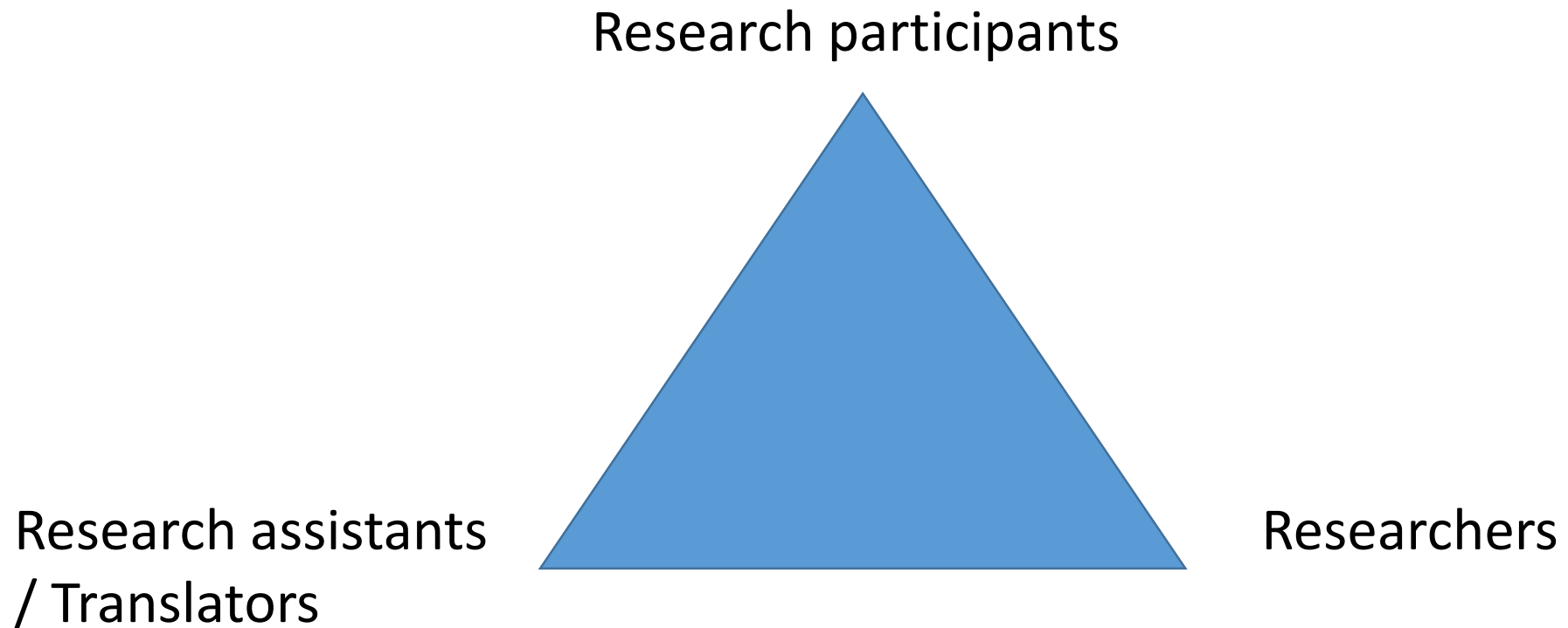


# Data collection approaches

- In-depth interview
- Semi-structured interview
- Direct observation / Participant observation
- Focus groups
- Key informant interview (could be IDI or semi-structured)
- Highly structured (surveys, not usually used in qual research)
- Field memos

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# Considerations: Relationships and power dynamics Reflexivity



# Why use qualitative research methods?

- Many complex research problems (especially food) require it
- Fuller picture of complex problems
- Adds depth to quantitative research (Q<sup>2</sup>)
- Accessibility
- Capturing participant's point of view
- Potential for genuine participation

# Considerations and Challenges

- Unearths inconvenient and messy truths
  - Time, logistics, and resources
  - Sampling and representativeness
  - Replicability
  - Inadequate to capture magnitude of phenomena
- 
- But... mixed methods can address many of these and combined, both methods can strengthen the other

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Questions?

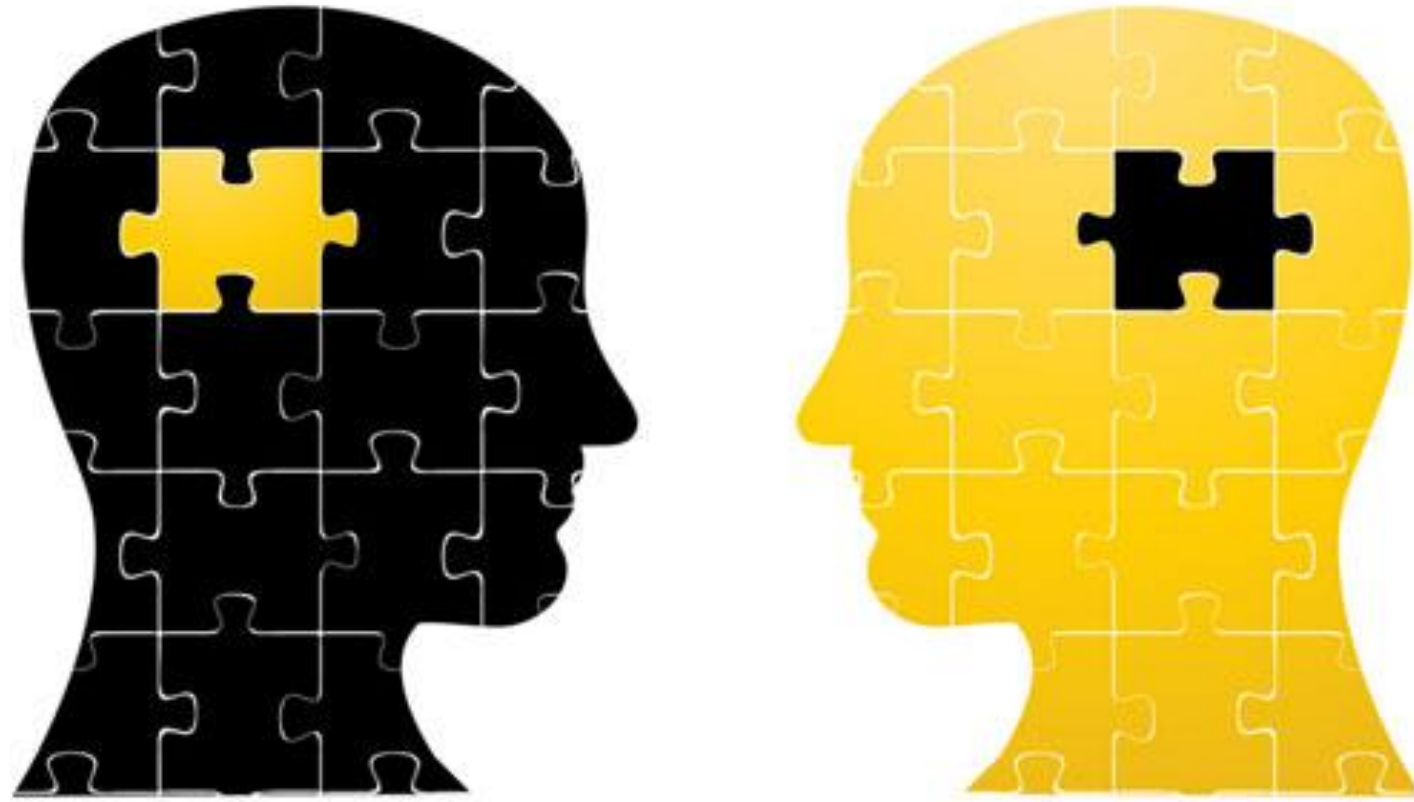
Clarifications?

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# Activity One

## Interviewing

To understand a person's world, talk to them!





# Qualitative interviewing

- Conversations on life in a professional form
- Has structure and purpose; beyond the spontaneous
- Careful questioning... and listening! Really hear the responses.
- Interviewees are given space to expand accounts of their experiences and feelings
- No common procedure; interviewing as a craft and an art....
- .... but several common processes and stages to the method.

Resources: <https://www.ukdataservice.ac.uk/teaching-resources/interview>

# Types of interview

- Structured interviews
  - Asking the same set of standardised questions
  - Getting responses in predetermined categories to (dis)confirm hypotheses
  - Useful to make comparisons between responses from different interviewee
- Semi-structured interviews
  - Allowing for the exploration of emergent themes and ideas
  - Scope for pursuing and probing for novel, relevant information
- Unstructured interviews
  - Not simply answering the questions posed by the interviewer
  - Freedom to tell their own story or biography
  - concerned with finding meanings, and attempts to develop a detailed biography with the interviewee

# Semi-structured interviews

- Knowledge is gained from the interviewee's view point
- Research data comes from the interaction between interviewee and researcher
- Need to interpret information in context
  - Location of interview; degree of ease; how questions were asked and answered
- Key skills:
  - Remaining open to emerging issues and surprises, and following these... and then getting back to your interview schedule
  - Having knowledge about the interview topic to allow broad scope... but not imposing your own assumptions or leading the responses

Balance....

# Types of interview questions

- Degree of focus
  - ‘Grand tour’: General overview
  - Specific: ‘please tell me more about...’
- Degree of open-endedness
  - Open-ended: ‘How do you feel about...?’ Used to discover perceptions
  - Closed: ‘Do you agree with the idea that...?’ Used to confirm findings
- Types of information
  - Descriptive: ‘Could you tell me what happened when...?’
  - Structured: ‘What factors do you think are involved in...?’
  - Contrast: ‘What changes have you seen since...?’
  - Clarification: ‘Can you clarify what you mean by...?’
  - Follow-up: ‘Can you tell me more about...?’

# Interview procedures

- Establishing relationships: Putting the interviewee at ease
  - Communication of aims, asking permissions, sensitivity to body language...
- Using the interview schedule
  - This is generally a reminder, not a list; be flexible and iterative...
  - Know your schedule well, so you don't have to refer to it too often
- Following leads
  - These might be body language or verbal; be sensitive but get below the surface and uncover new ideas and areas
- Capturing data
  - Most researchers use audio recorders for later transcription
  - Depending on the context, taking notes might be appropriate

# Exercise 1

Research question: **Why do people make certain food choices?**

**Create an interview schedule to address this question**

- Work alone (for now)
- Develop 5 interview questions
- Think about how to frame the questions, potential for misunderstandings
- Frame your questions so they explore rather than lead
- Include a range of types of interview questions, not just facts...

# Lunch!



# Exercise 2

Research question: **Why do people make certain food choices?**

**Undertake an interview to pilot your interview schedule**

## **Round 1:**

- Get into pairs:
  - one is the interviewer, the other interviewee
- Ask/answer the 5 interview questions from the schedule
- Do not veer from the 5 questions (no additional follow-up questions, etc.)



# Exercise 2

## Round 2:

- Same pairs and interviewer/interviewee
- Ask the first question from your schedule
- Turn over/close your schedule so that you cannot see the remaining questions
- Listen carefully to the answers of your interviewee and ask follow-up questions based purely on their responses

Remember to listen and follow up:

- Listen for emotions, perceptions, and 'don't knows'
- Encourage further, deeper responses, e.g. *that's interesting, can you tell me more about that/why that is...*
- Interviewee: While answering, think about how well the questions are working, what is harder or easier to answer or engage with...

# Exercise 2

## **Feedback, Reflection and Discussion**

- In your pairs, compare the experiences of the two interview rounds
- How did it feel as the interviewer/interviewee?
- How did it differ between the two? How did you feel?
- What kind of data did you capture?
  
- 5 mins open discussion with room

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# Activity Two

Coding

# Qualitative Data Analysis

- Most qualitative understanding entails textual analysis
- Though there are other visual ways of capturing qualitative information

# Data analysis

## Coding

- Open coding: read data line-by-line to identify and formulate any and all ideas, themes, or issues they suggest, no matter how varied and disparate
- Focused coding: fine-grained, line-by-line analysis on the basis of topics that have been identified as of particular interest

# Developing theory

## 1. Theoretical memos

- Elaborate and integrate the analytical categories you identify
- Connections to ideas you are familiar with already
- Note your own reactions and judgments
- Further questions arising from the data

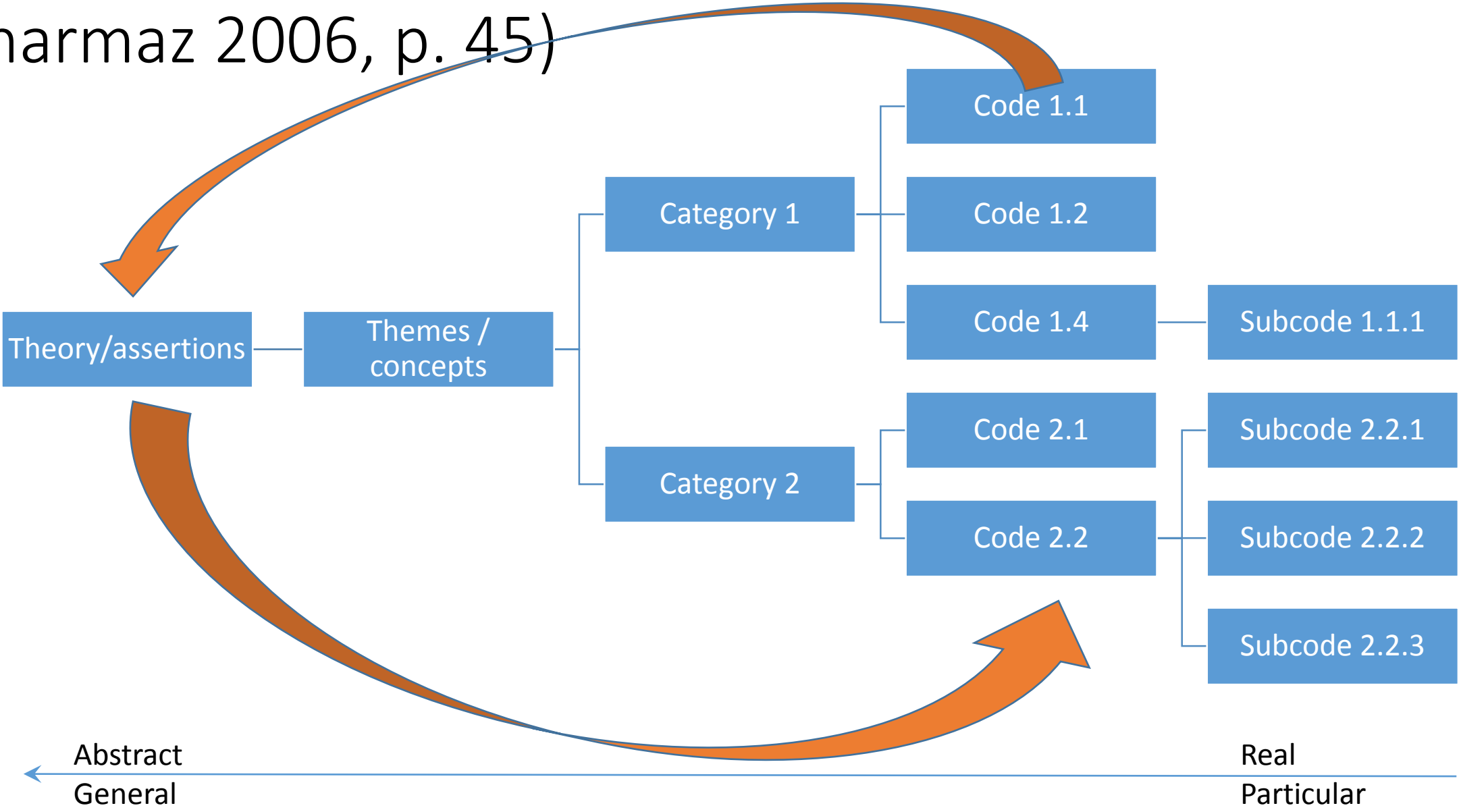
## 2. Theoretical propositions

- an *explanation* of an aspect of social life that has been observed and recorded

# Codes, Categories and Themes

- A code is a word or short phrase that systematically assigns a summative or essence-capturing idea or concept to the data;
- Different approaches to coding:
  - Starting with a code list and finding phrases or paragraphs in the data that fit
  - Starting with the data and creating codes to summarize or capture the interesting bits of the data as you read
  - *in vivo* coding: a word or phrase from the data becomes the code
- Categories are groups or families of codes that share some characteristic or are logically related
- Themes: abstract analytical or logical outcomes from codes and categories (patterns, trends, concepts)

Coding generates the bones of your analysis...integration will assemble those bones into a working skeleton (Charmaz 2006, p. 45)





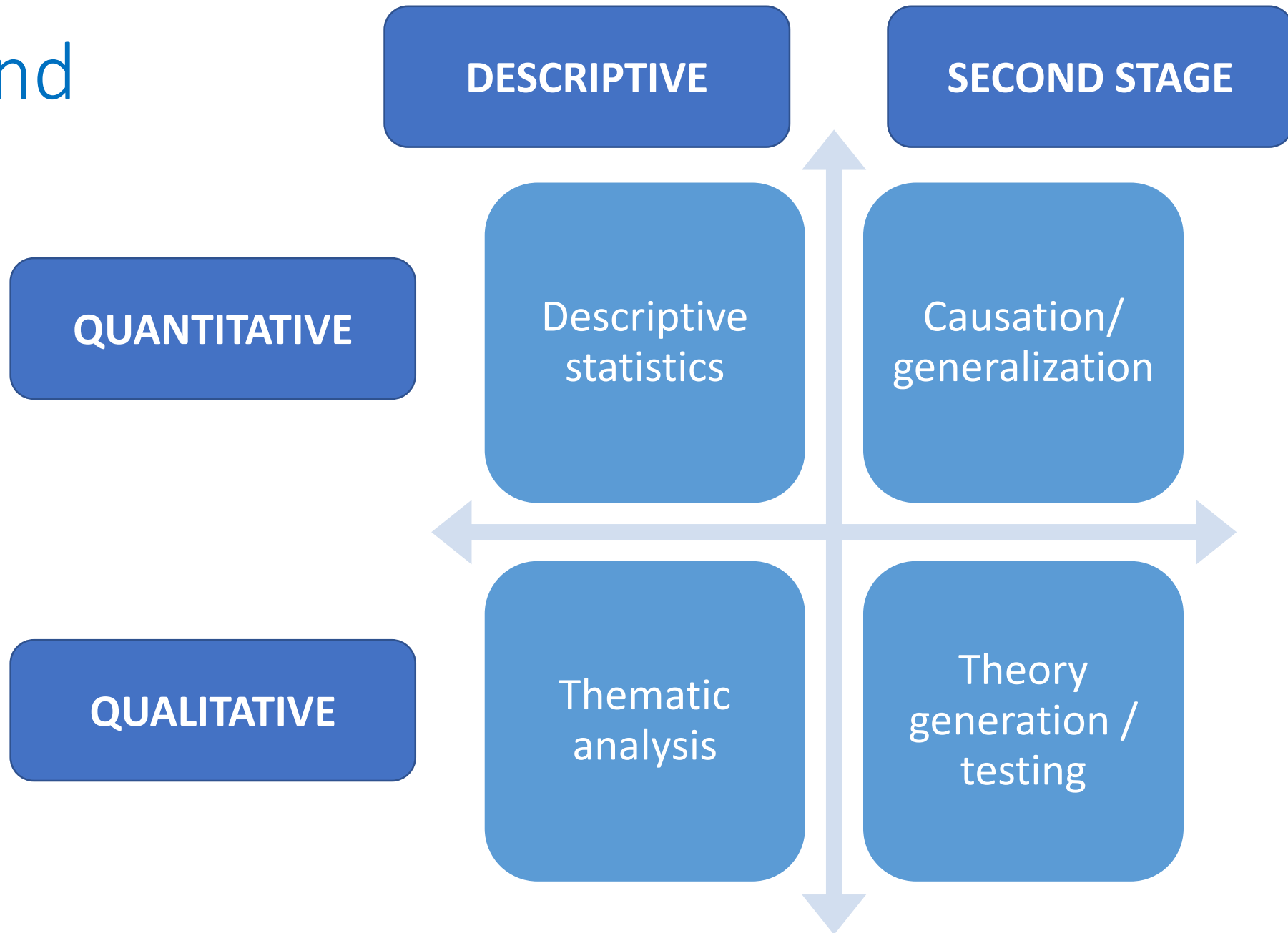
# How can data analysis software help?

- NVivo is the most widely used programme for qualitative data analysis
- It is a data management tool
- It allows you to code, categorise, search and retrieve data
- But... it cannot analyse the data or generate theory. This must be done by you!

## Exercise 3: Coding

- Read through the transcript.
- Start with open coding. Write a word(s) that captures each concept that you read. These are your codes
- From your codes, look for patterns. Organize important codes into categories: 3-5 words or phrases that you think are interesting, summative or otherwise relevant to highlight.
- Highlight/circle text and note the corresponding code. As you go, as new codes arise, you can code for those too.
- Discuss your coding with your group. Where are the different or the same?

# Qual and Quant



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Questions? Clarifications?

Conclusions

# Thank you!

- Re-cap
- Questions?

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# Further reading

## Qualitative methods – General Core Books

- Charmaz K (2014) *Constructing Grounded Theory: A Practical Guide through Qualitative Analysis*. SAGE Publications.
- Chrzan J & Brett J (2017) *Research Methods for Anthropological Studies of Food and Nutrition*. New York, Oxford: Berghahn.
- Denzin NK & Lincoln YS (eds.) (2000) *Handbook of Qualitative Research*. London: Sage.
- Lune H & Berg B L (2016) *Qualitative Research Methods for the Social Sciences*. Pearson.

# Further reading

## Useful Articles/Chapters

- Braun V & Clarke V (2006) “Using thematic analysis in psychology”, *Qualitative Research in Psychology*, 3 (2): 77-101.
- Denzin NK & Lincoln YS (eds.) (2000) *Handbook of Qualitative Research*. London: Sage.
- Lune H & Berg B L (2016) *Qualitative Research Methods for the Social Sciences*. Pearson.
- Mays N & Pope C (1995) “Rigour and qualitative research”, *The BMJ*, 311: 109-12.
- Ritchie J & Spencer L (1994) “Qualitative Data Analysis for Applied Policy Research”, in Bryman A & Burgess B (Eds) *Analyzing Qualitative Data*. Routledge, London. Pages 305-329.

## Research Ethics

- <https://www.theasa.org/ethics.shtml>

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# Title

- Content  
Content
- Content



# Focus Groups

- Semi-structured group interview (average 6-10 people)
- Focused on a particular topic or issue
- Typically standardized questions, though freedom for open discussion
- Can be repeated (for different demographics, or increased representation)
- Good for exploring new research areas (scoping), or where observations are difficult
- Good for getting range of perspectives, especially from marginalised groups
- Can be good for exploring sensitive topics (safety of group)
- Produce large quantity of targeted data in short time
- Can enable comparisons
- Often used in combination with other methods, or to inform other research
- Be aware of group dynamics
- Require skilled moderator

# Main Methods

- Observation
- Participant observation
- Interviews (structured, semi-structured, unstructured)
- Surveys/questionnaires (open questions)
- Focus groups
- Oral histories/life stories
- Case studies
- Archival and other documentary sources
- Photography and video
- Various participatory/participant-led



**Sampling**

**= purposeful**

**(not random)**

# Research ethics

- Protecting research participants and honouring trust
- Anticipating harm
- Avoiding undue intrusions
- Negotiating informed consent
- Right to confidentiality and anonymity

# Why use qualitative research methods?

- Accessibility
- Reduces “reactivity”
- Increases relevance of survey questions
- Creates intuitive understanding
- Fuller picture of complex problems
- Explanations for inconsistent data
- Many complex research problems (especially food) require it

# Drawbacks

- Time-consuming (resources)
  - Time scales can be incommensurable (ongoing)
  - Sampling and representativeness (select small scale)
  - Consistency and replicability
  - Unearths inconvenient and messy truths
  - No quick-fix solutions
  - Different methodologies make it a challenge to work across disciplines
- 
- But... mixed methods can address many of these and combined, both methods can strengthen the other

# Exercise 3

## **Carry out open coding analysis of the interview transcript**

For open coding, remember...

- Identify analytical categories within the data.

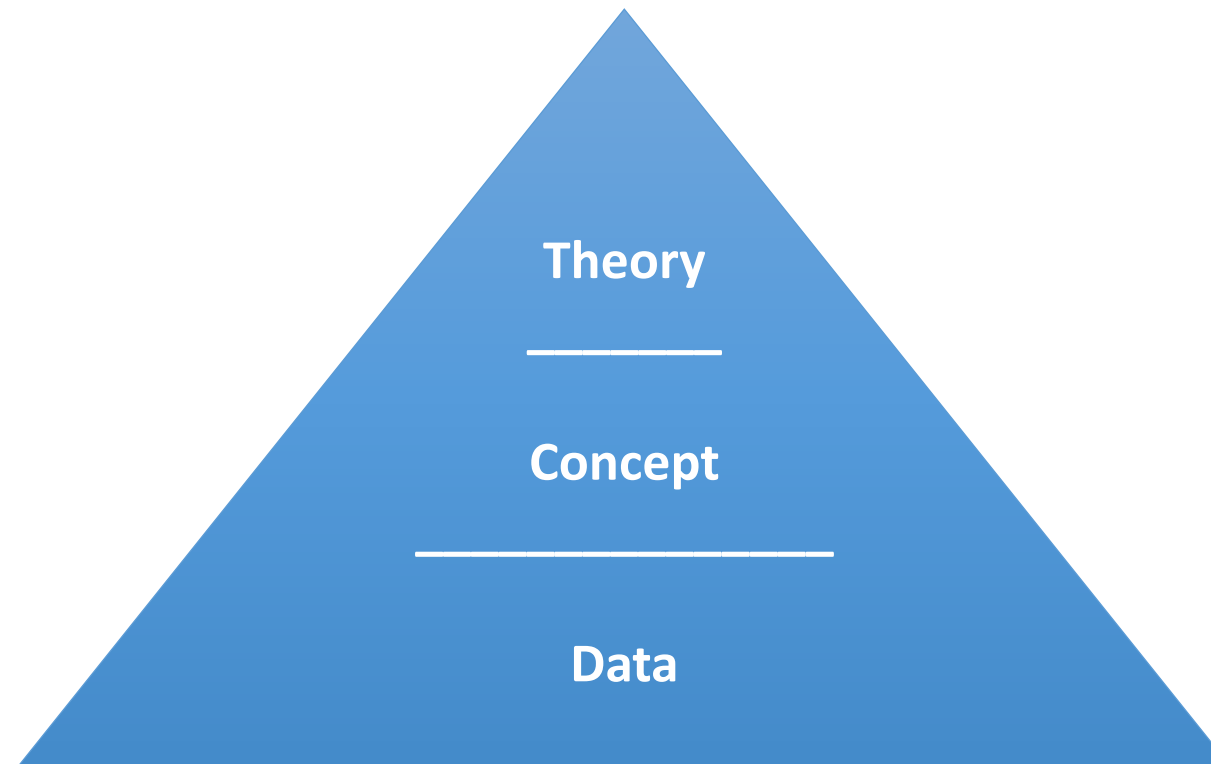
e.g. words, concepts or explanations that the interviewee uses to account for what is happening

- Avoid looking for your own pre-conceived concepts or hypotheses.

e.g. do not assume that a category such as 'gender' is relevant until it emerges in the data. The more frequently it appears in the data, the more likely it is to hold significance

- Be attentive to possible problems of translation.
- The questions are data. Subject them to critical inquiry.

# Levels of analysis



From the specific to the general...

