



# Designing social research: key elements

# Why is it important to have a good research design?

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“Things must be done decently and in order”

[The Adventure of the Retired Colourman]

# Designing your research (1)

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A research design contains (not always in this order):

- research topic / problem
- research question (What...? How...? Why...?)  
or
- research objective (I want to explain.../ understand.../ predict...)\*
- literature review [make this relevant to your question but don't ignore relevant older literature]
- research strategies, or what sort of reasoning(s) you will use (e.g. inductive/ deductive/ interpretive...)\*

# Designing your research (2)

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- theoretical framework / hypothesis (may change as your work proceeds)\*
- structure of study (Case study? Large sample? Comparative? Experimental?)
- sources of data, types of data\*
- data collection methods\*
- budget (not just money, also time)
- strengths & limitations of your approach (what can you answer and what can you \*not\* answer)

A research design is not a research proposal -- it is a roadmap

# Research objectives

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Research objectives shape the scope of your study – they provide you with direction. They lead to your research questions.

Your objective(s) could be to:

- Describe
- Explain
- Understand (why different from “explain” according to Weber?)
- Predict
- Evaluate the social / economic impact of...
- Change

Several of these can go into a single research project

# Research strategies

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Provide the **logic** by which research questions are answered, e.g.:

- ◆ Inductive

From collection of specific data to pattern-recognition and generalization

[Correlational statistical studies are often inductive in their logic; case studies too]

- ◆ Deductive

From general principles to specific hypotheses; then collect data to test that hypothesis

[Experimental research designs are typically deductive in their logic]

- ◆ Interpretive

From accounts of reality as seen / constructed by social actors to the language of (social) scientific discourse

1. Combination of strategies can go into a single project -- *not always possible in parallel but usually possible in sequence*

2. Specific strategies more or less amenable to specific data collection methods

# Theories & hypotheses

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- (Nearly) ALL empirical research methods are theory-laden
- Social theories contribute (1) working concepts / units of analysis, (2) broad frameworks or (3) specific hypotheses
  
- Inductive and (some) interpretive research strategies can generate theory
- Deductive strategies can't generate theories but can test them
- “Hypotheses” posit relationships (correlative, causal...) between 2 or more variables (you can test hypotheses & then reject/ not reject/ \*maybe\* suggest how to modify existing theories)
- Not all (qualitative) social research projects need explicit hypotheses but most have implicit ones in them

# Sources and types of data

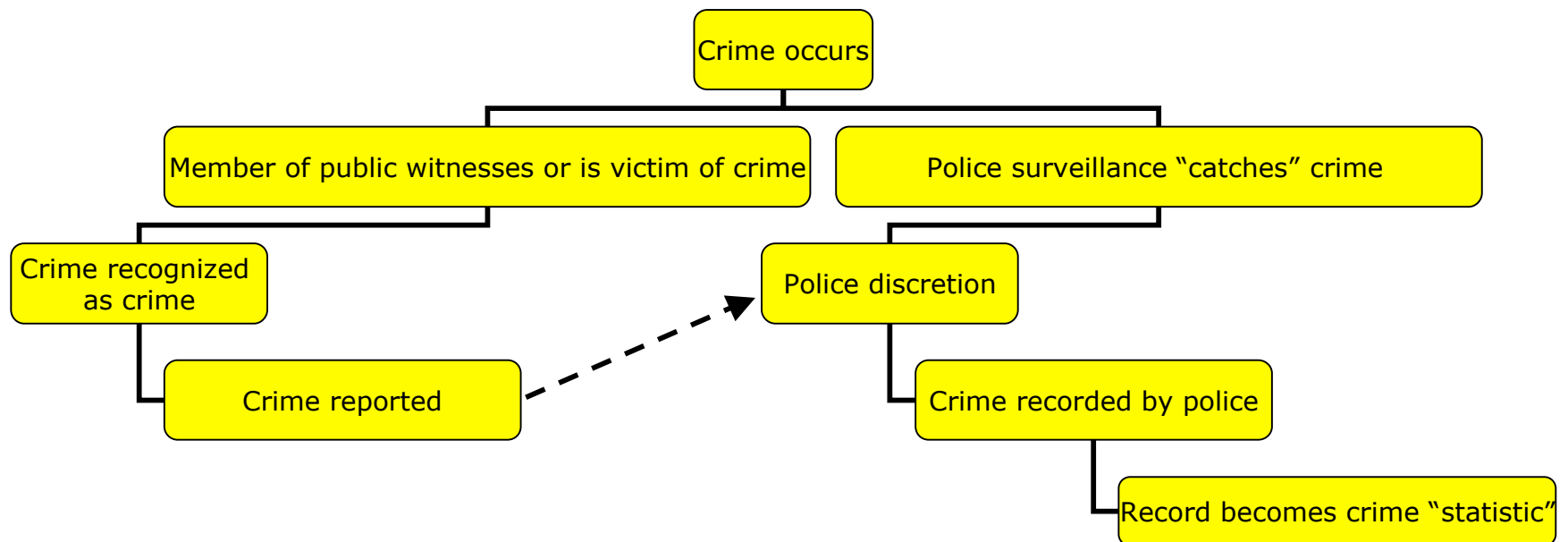
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- Data comes from individuals, small groups (schools), or large dispersed groups (cities, national groups)
- Sampling: a way to select the people or units from whom the data will come
- Random sampling: the only way to generate statistically representative findings
  
- Specific data-collection sites are appropriate for specific data-collection methods:
  1. Natural social settings (e.g. [participant-observation / ethnography](#))
  2. Semi-natural settings (e.g. [interviewing, surveys](#))
  3. Artificial settings (e.g. experiments / games)
  4. Artifacts (things / archival information / text)
  
- Forms of data:
  - Qualitative or Quantitative (This is a “traditional” distinction but boundary is often unclear)
  - Primary or Secondary (“Raw” data versus already-processed data)



# Always remember that data is produced, it's not "out there"

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*Adapted from Bryman 2001*

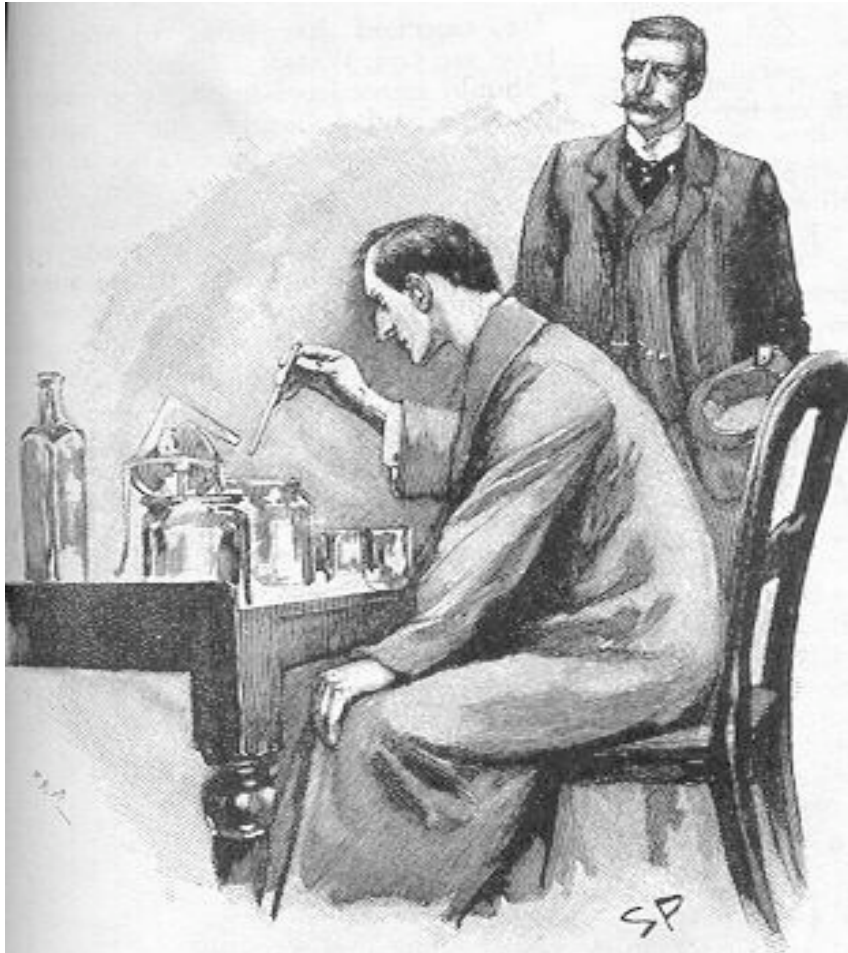
# Finally...

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- *There are some issues that are unique to social science research*
- *Relationship of researcher to researched:*
  - Detached observer? (classical “scientific” stance)
  - Empathetic observer? (post Weber)
  - Mediator of ‘languages’? (interpretation)
  - Partner in empowerment? (critical theory / action research)
- *Ethics: protecting subjects, being decent & accountable in the field*
- *Representing “your” community in your publications*

## We'll now move on to the three most common methods of data collection in the social sciences

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“Data! Data! Data! I can’t  
make bricks without clay”

[Adventure of the Copper  
Beeches]