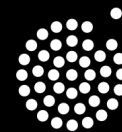


A Mixed-Methods Approach to Micro & Macro in Text (& Content) Analysis

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CONTEXT-SETTING

Discussion points in my talk today:

1. Dissociating *micro* studies from (exclusively) *qualitative* and *macro* studies from (exclusively) *quantitative* methods
2. Combining small-scale, micro methods (intensive coding, grounded theory) with large-scale, macro ones (automated coding, dimensionality reduction) to generate theory
3. Walking walking through a case study of a current project, to demonstrate the *alignment* across analytical methods → *fine-grained* study of *large-scale* processes

Tchalian, H. 2020. *Microfoundations and recursive analysis: A mixed- methods framework for language-based research, computational methods, and theory development* (Ch. 6 in *Microfoundations of institutions – Research in the Sociology of Organizations*, 65b, 107–125)

DEFINITIONS & LEVELS

- As scholars of language, it's fitting to be precise and ... *define* our terms:
 1. *Mixed-methods* (in this instance) = quant + qual
 2. Term often assumes *multi-level*, due to the conflation between:
[qual $\leftarrow \rightarrow$ micro] & [quant $\leftarrow \rightarrow$ macro] (*Cattani & Fleischer, 2012*)
 3. Also suggests an implicit equation between:
[qual $\leftarrow \rightarrow$ induction] & [quant $\leftarrow \rightarrow$ deduction]
- I suggest a 'mixed' level, what we might call a "micro-quant" or "macro-qual" approach focused on word associations
- The *objective*: identifying consistent, theoretically relevant *associations* present (but often *latent*) in large-N textual data
- Very much in line with developments in *content analysis* toward incorporating new methods, especially with advances in computational analysis

CASE STUDY (EXTENDEDLY-NASCENT EV CATEGORY)

- Multi-part project with Mark Kennedy, Vern Glaser, Anthony Corso
- Focus: the development of the EV as a 'problematic' category
- Using GM's, Tesla's (and Nissan's) launches into category as a complex case



GM Impact / EV1



Tesla Roadster

- Qual + quant analysis (N>20k articles): **methodologically + theoretically generative**

ANALYTICAL METHOD

Step — Methodological procedure

Analytical outcome

1

qual coding: sentence-level associations

firm-level associations

2

qual analysis: associational groupings

firm vs. *category* associations

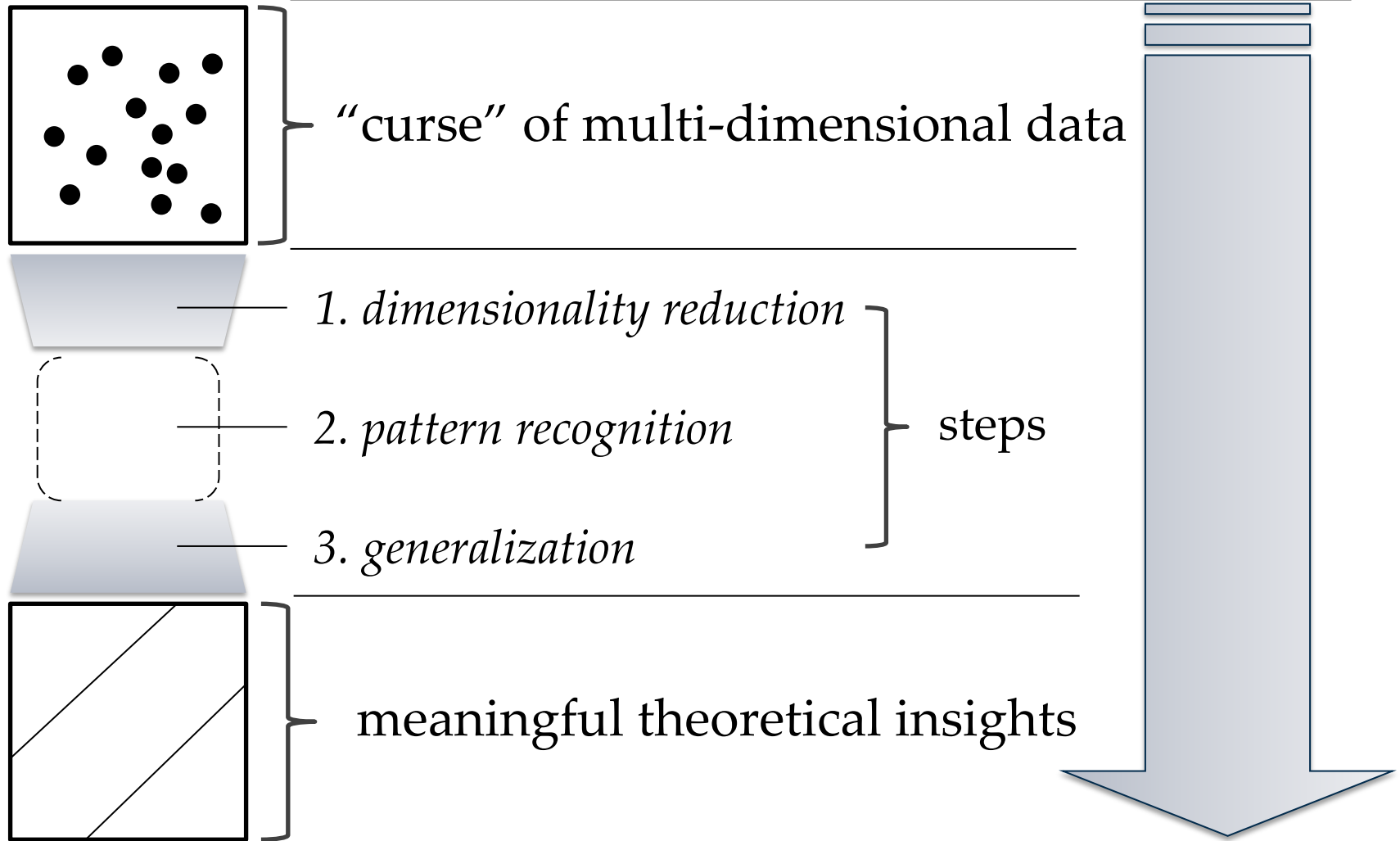
3

quant replication: consistent assoc. patterns

extension of analytical procedures at *scale*

large-scale
+
fine-grained
analysis

HIGH-LEVEL PROCESS OVERVIEW



IMPLICATIONS

- Empirical method: sentence-level co-occurrence (‘mixed’ levels → mixed-method)
- Method & software (e.g., MaxQDA) blur lines bet. quant and qual
 - Approach mimics NLP / comp ling studies (taggers, parsers)
 - **“Partaking” of micro / macro (analytically + empirically)**
- Instantiates the “curse of dimensionality”
 - Meaning-making requires some form of *dimensionality reduction*
- Requires comfort with ambiguity / living without DV
 - Also avoids “net effects” thinking (Ragin, 1987) & unnecessary creation of propositions / “weak hypotheses” (Delbridge & Fiss, AMR 2013)
- Combines analysis + theory → relevance / so-what
 - Theory largely, though not exclusively, *emergent* (Durand & Paoletta, 2013; Kennedy & Fiss, 2013)
 - *Loop (and a bit of a throwback)*: Theory → normative features → coding for emergent features ... (Rosa et al, 1999; Rosa & Porac, 2002)

THANK YOU!



EMPIRICAL LEVELS

