5 Building Blocks of Analysis

Identifying themes

Building and applying codebooks

Describing themes

Making comparisons

Building and testing models

What is a theme?

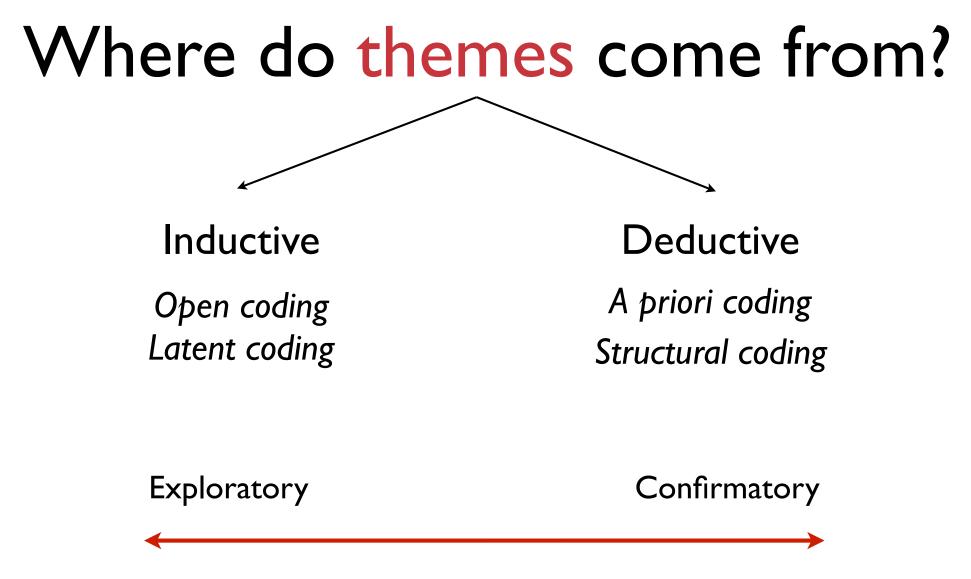
An underlying dimension of meaning, or a construct, that cuts across a variety of expressions

What is a theme?

Answers the question, "What is this an example of?"

What is a theme?

Can be broad constructs that link many kinds of expressions, or narrow ones that identify specific kinds of expressions



Unstructured

Structured

Techniques to Identify Themes

GERY W. RYAN RAND Health H. RUSSELL BERNARD University of Florida

Theme identification is one of the most fundamental tasks in qualitative research. It also is one of the most mysterious. Explicit descriptions of theme discovery are rarely found in articles and reports, and when they are, they are often relegated to appendices or footnotes. Techniques are shared among small groups of social scientists, but sharing is impeded by disciplinary or epistemological boundaries. The techniques described here are drawn from across epistemological and disciplinary boundaries. They include both observational and manipulative techniques and range from quick word counts to laborious, in-depth, line-by-line scrutiny. Techniques are compared on six dimensions: (1) appropriateness for data types, (2) required labor, (3) required expertise, (4) stage of analysis, (5) number and types of themes to be generated, and (6) issues of reliability and validity.

Keywords: theme identification; qualitative analysis; text analysis; open coding; qualitative research methods

Analyzing text involves several tasks: (1) discovering themes and subthemes, (2) winnowing themes to a manageable few (i.e., deciding which themes are important in any project), (3) building hierarchies of themes or code books, and (4) linking themes into theoretical models.

We focus here on the first task: discovering themes and subthemes in texts—and in other qualitative data, like images or artifacts, for that matter.¹ We outline a dozen techniques, drawn from across the social sciences and from different theoretical perspectives. The techniques range from simple word counts that can be done by a computer to labor-intensive, line-by-line analyses that, so far, only humans can do.

Each technique has advantages and disadvantages. Some methods are more suited to rich, complex narratives, while others are more appropriate for short responses to open-ended questions. Some require more labor and expertise on behalf of the investigator, others less.

Making explicit the techniques we use for discovering themes in qualitative data is important for three reasons. First, discovering themes is the basis

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12 Techniques for Identifying Themes

Observational

Word repetition Indigenous categories Metaphors and analogies Transitions Similarities and differences Linguistic connectors Missing data Theory-related material

Processing

Cutting and sorting Word lists and KWIC Word co-occurrence Metacoding

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Cutting and sorting Word lists and KWIC Word co-occurrence Metacoding 6 C The illness episode was preceded by a period of 'running down my system' which occurred from studying and working to a point where my sleep was being sacrificed. I recall feeling very tired and somewhat 'achy' at first, which was later accompanied by difficulty in breathing and swallowing. This was related to sinus congestion and a sore throat. I also recall that the skin around the openings of the nasal passages began to feel raw and irritated from the constant wiping. My throat felt sore as I mentioned earlier. This makes swallowing difficult and somewhat uncomfortable. There were also periods when I had phlegm which necessitated me to have to spit. The phlegm also had a greenish-yellow color to it, which confirmed the significance of this illness. I think I kept swallowing it and it made me queasy and eventually I puked....

It began with a slight headache behind the eyes and nose, almost stinging and then a dull pain. My head became heavy and I grew a little more irritable. For a while I became chilly, the hallmark that sickness was on the way. I called in the vitamins to combat the initial siege and the orange juice made me feel better (at least in my head.) It wasn't too bad, and since it was Christmas vacation and I had little else to do, I got out my Agatha Christi book....

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Word List Example

What is your teenager like now? Does she or he have any special qualities or abilities?

Mothers

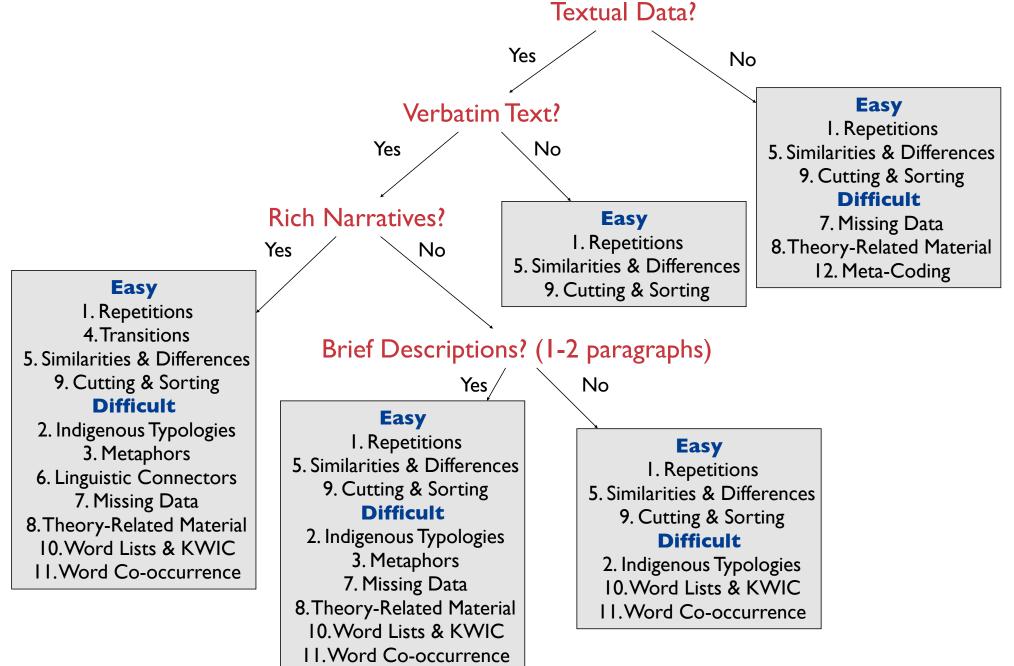
Rank	Frequency	Word							
I	22	good							
2	12	friends							
3		loving							
4		out							
5		people							
6	10	doesn't							
7	10	hard							
8	10	school							
9	9	responsible							
10	9	sense							
11	8	caring intelligent							
12	8								
13	8	lacks							
14	8	sensitive							
15	7	bright							
16	7	honest							
17	7	others							
18	7	self							
19	7	time							
20	7	well							
21	7	work							
666		zest							

Ryan and Weissner (1996)

A Key-Word-in-Context (KWIC) Example

KWIC table for the word "deconstruction" in Wright (1997)						
1	This varied group of postmodern thinkers employs the tool of deconstruction to critically evaluateindeed, to peel back the discursive layers ofdevelopment's assumptions: capitalist economics, progress, modernity and rationality.					
2	Their deconstructions reveal development's asymmetric dichotomization of the world into modern, Westernized societies on the one hand and traditional, "backward" societies on the other.					
3	It will be the purpose of this article to utilize the deconstructive tool from a feminist perspective, to carry the postmodern theorists' deconstructions one step further to unravel the elements of development theory that carry Western gender biases regarding proper roles for women and men based on their "true nature."					
4	This process of feminist deconstruction correlates with a contemporary trend in feminist analysis, that of deconstructing institutions such as the state and law, and discourses of democratic theory and international relations theory, to expose their reliance upon, and infusion with, gender.					
5	Feminist deconstruction , then, is distinct from the earlier empirical project that enumerates women's experiences with development.					
6	Feminist deconstruction is "not simply about women," but about the interdependent constructions of masculine and feminine, and about shifting feminist analysis from the margin to the centre.					

Selecting among theme-identification techniques



12. Meta-Coding

Selecting among theme-identification techniques

	Labor	Expertise		Stage in	Number	Type of theme produced	
Technique	<u>Intensity</u>	Language	Substantive	Methodological	Analysis	of themes	
Repetitions	Low	Low	Low	Low	Early	High	Theme
Indigenous typologies	Low	High	Low	Low	Early	Medium	Theme, Subtheme
Metaphors	Low	High	Low	Low	Early	Medium	Theme
Transitions	Low	Low	Low	Low	Early	High	Theme
Similarities & Differences	Low - High	Low	Low	Low	Early	High	Theme
Linguistic connectors	Low	High	Low	Low	Late	High	Theme
Missing data	High	High	High	High	Late	Low	Theme
Theory-related material	Low	Low	High	High	Late	Low	Theme
Cutting & Sorting	Low-High	Low	Low	Low	Early or Late	Medium	Theme, Sub-, Meta-theme
Word lists & KWIC	Low	Medium	Low	Low	Early	Medium	Theme, Subtheme
Word co-occurrence	Medium	Medium	Low	High	Late	Low	Theme, Meta-theme
Meta coding	Medium	Medium	High	High	Late	Low	Theme, Meta-theme