Digital Qualitative Analysis Tools

Dr. Annamary Consalvo, Associate Professor The University of Texas at Tyler 3:00pm, Tuesday, April 18, 2023

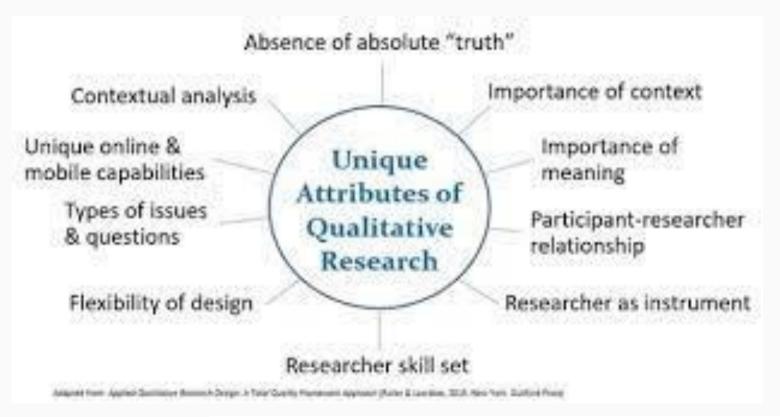
Series offered by The Office of Research, Scholarship, and Sponsored Programs (ORSSP)

A "waterfront" approach This workshop will explore...

...some basic ways that qualitative analysis software can assist the researcher. In this workshop participants will consider some of the pros and cons of a few of the vast array digital tools for qualitative analysis.

- 1. Please enter your name, position and department in the chat.
- 2. This presentation will take about 30-40 minutes which will then allow for discussion and questions.
- 3. Please hold your questions until the end and/or put them in the chat.

QUICK REVIEW....ATTRIBUTES OF QUALITATIVE RESEARCH



Great overall beginner text: Merriam, S., & Tisdell, E. A. (2016). *Qualitative research: A guide to design and implementation* (4th ed.). John Wiley & Sons, Inc.

QUICK REVIEW:

Qualitative Research seeks to.....

Examine perceptions, motivations, and experiences that are significant (meaningful) to people

Explore **social processes**, not probabilities or predictions

Analyze **texts** (written word, images), **talk** (spoken word, conversations), and **interactions** (encounters, events) --rather than numbers and statistics,

More information?

Visit the <u>resources bank of the ORSS</u>. See especially several excellent recorded webinars on Qualitative Research.

An excellent text for better understanding of coding and qualitative analysis: Saldaña, J. (2016). The coding manual for qualitative researchers (3rd ed.). SAGE.

Must read, and read some more. Many helpful books and articles out there.

Qualitative Data Analysis

quick review!



Observation
Interviews
Document
Recording

Data Reduction

Selection
Focusing
Simplifying
Abstracting
Transforming

Data Display

Matrices Graphs Networks Charts Conclusion Drawing

Give Meanings Confirming Verifying quick review!

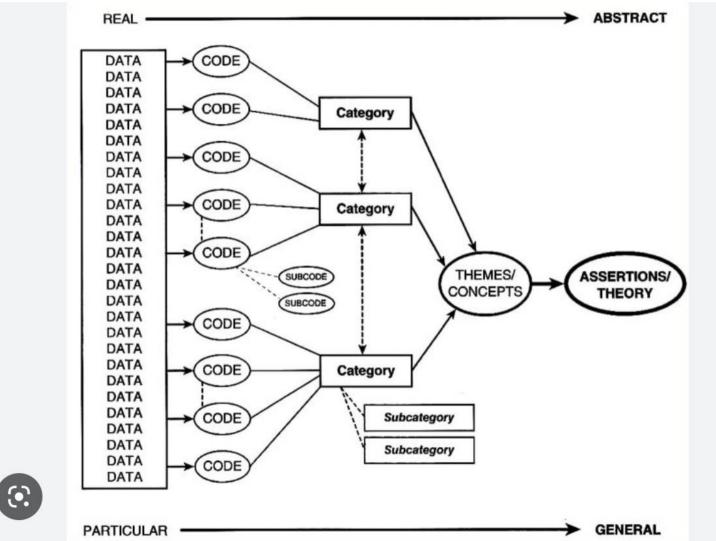
So, what data are we analyzing?

and Why....

Examine perceptions, motivations, and experiences that are significant (meaningful) to people

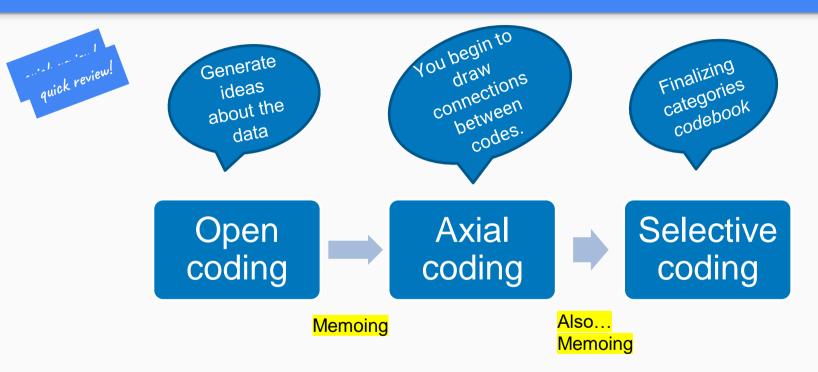
Analyze texts (written word, images), talk (spoken word, conversations), and interactions (encounters, events) --rather than numbers and statistics,

Examines social processes, not probabilities or predictions



quick review!

Where to start: Process of refining codes for qualitative inquiry



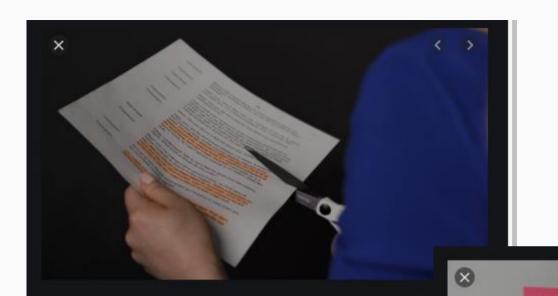
Great basic discussion and examples <u>HERE</u> Excellent and short discussion of open, axial, selective coding <u>HERE</u>

Tools for Qualitative Analysis

Material Tools

for qualitative analysis





1384 × 779

Part of the analysis process And visualizing...

Material analytic methods



Beginning to establish codes and themes – next is needed memoing, and establishing stable codes.

Aurovance

conquisin weeper

to an have did that make you feel?

not early to find

listing provide

Material analytic methods

Implication



Inexpensive and widely availabe

MS Excel MS Word



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	100	1000	Mach to that experience, how modd you summer on or regital your class?		
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	40	2	A week so fast, I don't know it even I could region right now at the Bargo that we went through	95	
	8.	- 6	Year it went to fast and have confused:	1	
	1		I filed very much like the two of them, it was no fact a peck that I	(T)	- 1
			stant bert like i internelized all of the concepts. I feel like I applied some concepts before I really		
	7.		understood what they means		
			I found myself using words that I did not what they really meent. I would ente a paper and the		
			Triple (sign blain Bordersen (SU))	. 1	- 1
			I was overwhelmed because I did have a baptiground in mathematics, soci obtained but what gut in my way to that I had a retails other life and you needed to just have a life for statistics. I had a		
	1	. 7	harvine other july, it you too much, controllines that his put the little away	- 1	. 4
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	M	M00 -	about his atmost you were filte course relative to other courses. (2 sect.)		
	4-8	100	Aust lief like from the minute we waked into the room we had to be read, and listening because	233	
	14	- 4	it grees so fast.	.2	
		100	(nementer like, the nutine was always the Trursday) could un the numbers. Finday Lainutt	750	60
	11	-	start inting true.	- 2	7.0
	14	- TV.	When I had a problem, yeared call I or servenous.	200	4

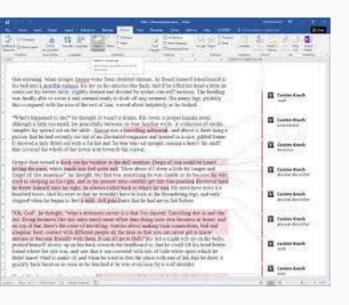
The state of the s

Qualitative analysis using Excel YouTube(Tutorial)

Excel spreadsheet of focus group interview, showing how comments were coded as anxiety or coping. The moderator comments were not coded 3.6 Within-Case Analysis 3.6.1 Step 6: Qualitative analysis of quantitative data

Inexpensive. easy to find/use software:
MS Excel

| Programme for the programme of the pro





inserting codes directly into document then using FIND feature to gather.



Inexpensive. easy to find/use software:
MS Word



9. Create a header row. Go to the top row of your table, and insert a row. Label that top row as specified in the top row of the sample table here.

Code	ID	Q =	Turn =	Data	Notes
				Your data is in this column.	

Code: You will use this column during Stage 3 to label and code emerging themes in the data.

ID: You will use this column to label the participant that is speaking. You should use a code number that you have assigned and tracked accordingly.

Q #: In this column, you will record the number of the question that was asked to elicit the participant's response in that row.

Turn #: This column is very important: It will allow you to sequence the text of the interview so that you will be able to quickly locate and track information within the interview. This feature is akin to what many in qualitative research refer to as a line number. I prefer the term turn, because sometimes the "turn" will be a line, a sentence, a passage, or a whole paragraph, for example. This is, in essence, the indicator of where this "chunk" is in your data.

Data: This column will contain the actual text from the data, divided into meaningful segments.

Notes: This column provides you space to record you personal notes, hunches, insights, and so forth. You can also use this column to make explicit links to the research questions driving your project if that's helpful.

Note: These are ful to add add preferences.

See

Ruoana (2005) Using MS Word as an Analysis
Tool



Code	ID	Q =	Turn =	Data	Notes
				Your data is in this column.	

See Ruoana (2005) Using MS Word as an Analysis Tool

256 OUALITATIVE RESEARCH METHODS

The following is an excerpt of a coding scheme used in the analysis of a set of data surveying HRD professionals' ideas on issues and trends affecting the profession. The codes provided are the ones needed to understand the coding of Interviewee #6 on Appendix A: Analyzed & Coded Interview.

10000 Driving Forces 13000 Future of HRD Profession 10100 International/Globalization 13100 Keeping up with changes/future 10200 XXXX 13200 Standards 10300 XXXX 13300 XXXX 10400 XXXX 13400 XXXX 10500 XXXX 13500 XXXX 10600 Changing Organizations 13600 Recruiting (best & brightest) 10610 XXXX 10620 XXXX 10700 Changing Workforce 10710 XXXX 14000 Scholarly Leadership 10720 XXXX 14100 Multi-disciplinary 10730 XXXX 14200 Theory/practice 10800 War or tragedy 10900 Value of Human Resources 21000 Competitors 21100 XXXX 11000 HRD Work/Competitive Adv. 21200 XXXX 11100 E-Learning 21300 HRM 11200 XXXX 21400 XXXX

21500 XXXX

12000 Business/Orgl. Credibility

11300 Learning

11310 XXXX 11320 XXXX

12100 Boardroom (increased recognition)

12200 XXXX 12300 XXXX

Figure 14.2 Sample Coding Scheme

258 OUALITATIVE RESEARCH METHODS

6 - 5					Netes
10100	6	3	1	HRD is a global concept, making sense to global organizations and to individuals around the world.	
10100	100	11	100	Support the globalization process in a morally appropriate way.	
10100	130	11	102	Globalization: We have always looked at the workplace as a more or less local somario. As companies learn more and more shout the advantages of plobal networks; in their operations the "workplace" as such becomes more and more complex. Traditional somariod activation could supmore. While one collaborates through e-conference technology with different coworders co-time the social and cultural context of each judy dotael invested is still "locally" experienced.	Relates to e-learning (11000) Relates to 10610 (changing orgs.)
10600	6	1	2	and performing. What were organizations talking that in 2006 and 11, and how did HRD react to those?	
10600	142	11	103	In the peri we would discuss loose coupling metals high playing of organizations as an other or dislogue. Today this dislance the second reserves or the world view, rationalization, and functionally class yet the second reserves. There is a pressing challenge to baild as other of responsibility with the property of t	
10700	108	11	104	Moding the needs of an increasingly diverse audience (i.e., education levels, global cultural issues tending all seasons of generation gap).	
16700	109	11	105	The workforthlows the part several years, has become extremely diversified. A great challenge for any leader will be to motivate the workforce to function as a cohesive town, setting \$100 differences and barriers.	
10800	6	2	1	Atomic war or some pendemic, resulting in the destruction of current societies.	
10900	1	7	1	One can either build human capital or use it up. If you choose the latter course, the organization will soon become uncompetitive.	
10900	13	4	1	The general recognition that 'people matter"	
10900	14	4	1	The recognition by many business people that knowledge and learning are critical to their organizations' success.	
10900	3	4	1	Emphasis on the human dimension in organization has grown.	
10900	4	3	1	CEO's would believe (and act on the belief) that people are their most important asset.	

Figure 14.3 Sample of Master File Data through Stage 4



selected function qualitative analysis software

15 Best Transcription Software In 2023
[Audio/Video To Text] (linked article)

List of Top Transcription Software Comparing Some Best Audio Transcription Software #1) Rev #2) GoTranscript #3) Descript #4) Otter #5) The FTW Transcriber #6) Audext #7) Trint #8) Express Scribe #9) InqScribe #10) Sonix #11) SpeedScriber #12) Temi #13) Transcribe #14) oTranscribe

#15) Scribie

#16) Amberscript

Transcription Software (audio & video)

Rev

The software integrates with YouTube, Vimeo, JW Player, and more platforms.

\$ more a service - cost per minute

GoTranscript

Human-Based Transcription.

\$ more a service – cost per minute

See

Elinor Ochs' (1979) Transcription as Theory

InqScribe

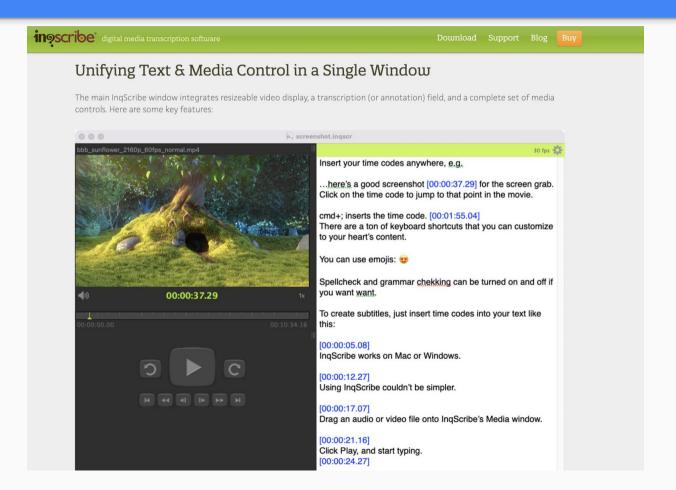
Simple and affordable transcribing.

InqScribe is a transcription software for Windows as well as Mac that supports audio and video files from your hard drive, flash drive, CD, server, or URL (HTML5).

They also offer a foot pedal for controlling media playback and allow exporting files in different formats, including Premiere, Final Cut Pro, DVD Studio Pro, YouTube, and XML. HTML, and more. The software is intuitive, simple, and highly useful at the same time. You can do mouse-free transcribing with the help of the keyboard and a USB foot pedal.

Much better for a researcher – may be other great options too!

Look at various functions of Inqueribe (\$99 for individual researcher license)



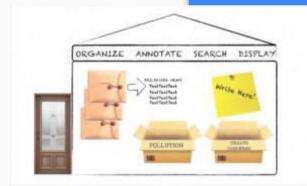
Overall Qualitative Analysis Software

Johns Hopkins QDA page

What QDA can do for you:

Organize Annotate Search Display

What QDA cannot do for you: Short answer is "analyze"
You still have to conceptually direct the analysis of your date.





7.6 6.7 45

7.6 4.8 46

Basic functions common to most QDA programs, and to NVivo and ATLAS.ti in particular:

Coding

Application of a maintained set of terms and short phrases linked to segments of text or audio/video that
can be queried and gathered for comparative analysis.

Annotation

Longer narrative notes attached to text or a/v segments, or to codes

· Navigation / queries

Quick access to codes and segments that can be brought together in panel views for comparison, advanced
 Boolean search options, and flexible interlinking of segments, codes, and annotation

Transcription

 Most QDAS facilitates transcribing audio and video, ideally maintaining the links between transcript and A/V segments.

· Relationships/patterns

 Gathering codes, segments, and annotations facilitates pattern discovery and further description of relationships. Some QDAS support social network analysis techniques and visualization

· Reporting / collating

 A range of reports using queries and filters to assemble data and annotations facilitates analysis and writing results.

Visualization

• Typically includes code tables, social network graphs, and annotated A/V clips.

Collaboration

 Shared access to data & analysis, facilitating comments and discussion, and tracking contributor actions and changes.

Affordances of NVIVO & ATLAS.ti

- CODING
- ANNOTATION
- QUERIES
- TRANSCRIBE
- PATTERNS
- COLLATING
- VISUALIZE
- COLLABORATE

ATLAS.ti

NVIVO

Visit ATLAS.ti

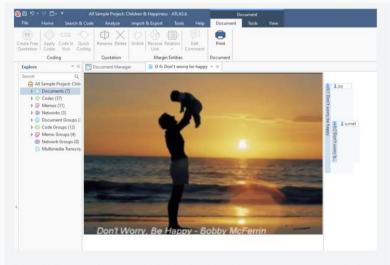
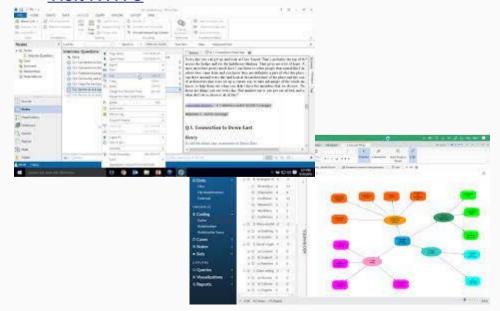


Figure 4: Coding pictures in ATLAS.ti. Qualitative methods often involve analysis of non-textual data.

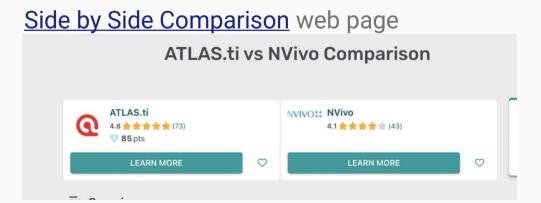
Visit NVIVO



These are two powerful QDA tools: There are others – which is best for you?

ATLAS.ti

ResearchGate discussion over NVIVO vs Atlas



Questions? QDA experiences to share?

Thank you for attending. I am happy to talk with you on an individual basis.

You can schedule a meeting HERE or email me at aconsalvo@uttyler.edu



Visit the <u>resources bank of the ORSS</u>. See especially several excellent recorded webinars on Qualitative Research.