

Enabling quality qualitative data analysis with evidence through NVivo for interdisciplinary research (Part I)



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Declaration

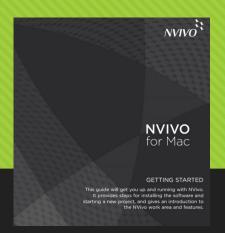
- User of NVivo [sharing experience but not promoting NVivo as the only tool for qualitative analysis]
- Some images with sources are extracted from Google search for educational purpose

Intended learning outcomes

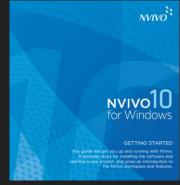
The workshop is planned for you who are new to NVivo, a qualitative analytic software to acquire fundamental skill in various stages of conducting literature review, collecting data from various stakeholders, data processing and report writing of a research project. The software can process document in PDF, Word and Excel format if you consider to documenting literature (PDF), transcribing interviews (Word) and conducting survey (Excel). In the workshop, you will learn how to do coding first with no themes, how to link related coding as 'Tree' and 'Nodes' which will form parts of the emerging themes with the software.

Agenda

- Conceptual understanding of qualitative research
- O NVivo overview
- O Illustration on some basic steps in Nvivo
 - Coding
 - Managing nodes
 - O Making queries after coding
- O Hands-on practice using NVivo for qualitative research







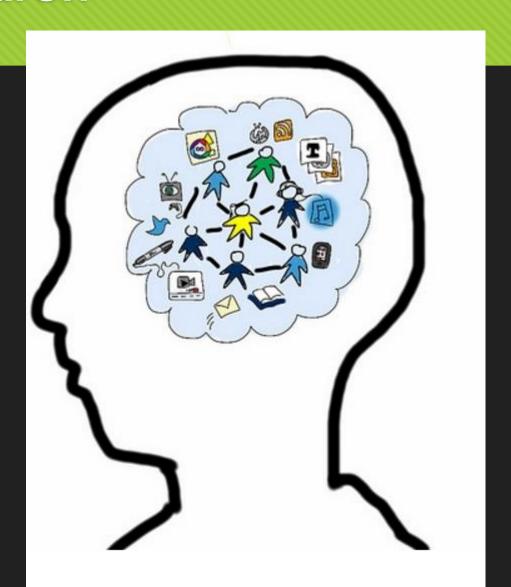


Educational research

Research Questions:

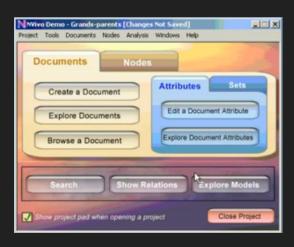
What are the impacts on student learning when they conduct peer assessment?

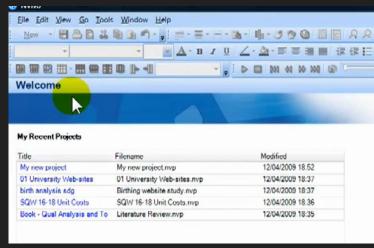
What are the benefits of adopting flipped classroom in my teaching?



My experience

- Using Nudist / NVivo for my doctoral study individual interviews with academics and staff developers from five institutions
 - Coding
 - Queries
 - Retrieving direct quotes as evidence in writing dissertation
- Using NVivo for one of my projects focus group interviews with students (local and non-local students including mainland students and overseas students) from three institutions
 - Coding
 - Queries
 - Comparing cases





Your experience

- Conduct interviews [one-to-one, focus group]
- 2. Transcribe interviews
- 3. Code interviewing scripts
- 4. Make annotations of interviewing scripts
- 5. Create a summary of interviews
- 6. Use software for qualitative research



Quantitative > Qualitative research methods

Quantitative research

- O Hypotheses
- Quantifiable data
- Used for factor analysis, confirming factors, making generalization and prediction
- Significance testing

Qualitative research

- Case by case
- Making inquiry (what, how & why)
- Qualitative data from a variety of sources and formats
- Include field observation, interviews (individual / group)
- Narrative account; explanation; phenomena

Theories in use

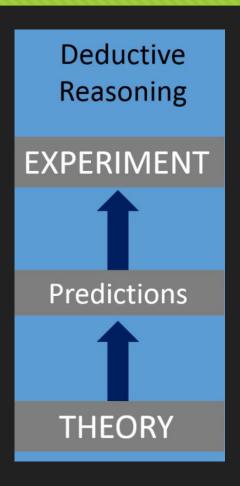
Comparison of Qualitative Analysis Approaches

	General Inductive Approach	Grounded Theory	Discourse Analysis	Phenomenology	
Analytic strategies and questions	What are the core meanings evident in the text, rele- vant to evaluation or research objectives?	To generate or dis- cover theory using open and axial coding and theoretical sampling	Concerned with talk and texts as social practices and their rhetorical or argumentative organization	Seeks to uncover the meaning that lives within experience and to convey felt understanding in words	
Outcome of analysis	Themes or catego- ries most relevant to research objec- tives identified	A theory that includes themes or categories	Multiple meanings of language and text identified and described	A description of lived experiences	
Presentation of findings	Description of most important themes	Description of the- ory that includes core themes	Descriptive account of multiple mean- ings in text	A coherent story or narrative about the experience	

Defined framework

Defined framework

- Working on established framework / theories
- O RQs
- O Methodologies
- Examining sets of data based on deductive approach
- Comparing current data with established theories



Conceptual framework: Example 1 (Blended learning on part-time degree program)

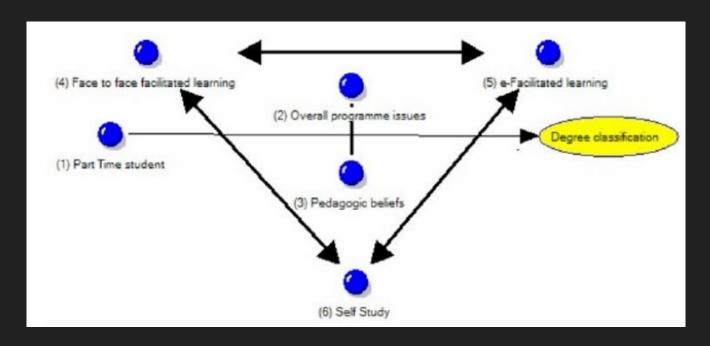
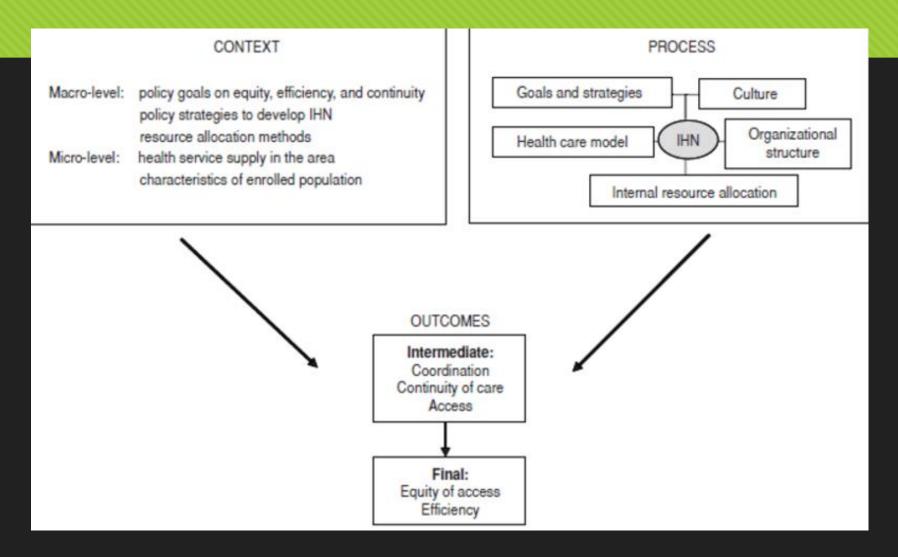


Image source: http://image.slidesharecdn.com/nvivophdguidenov09v1-091130144353-phpapp01/95/nvivo-use-for-phd-study-18-728.jpg?cb=1259592252

Conceptual framework: Example 2 (Analysis of integrated health care network)



Data sources

	RQ1	RQ2
Primary source of data	Interview [patient]	Survey [e.g. consumers in district]
Secondary source of data	Report in council	Journal articles

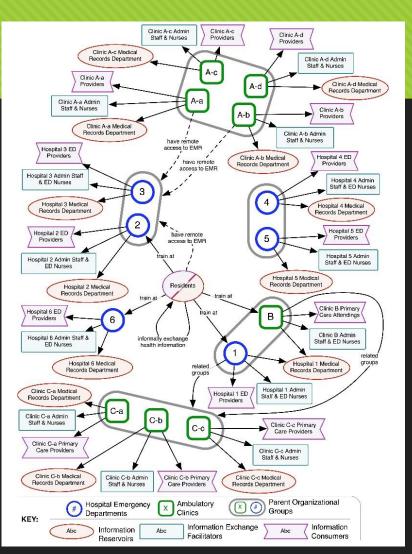


Image source: https://medinform.jmir.org/2013/1/e3/

Grounded theory

Coding and memo-making from relevant empirical data (Glaser and Strauss, 1967)

Glaser, B.G., & Strauss, A.L. (1967). The discovery of grounded theory: Strategies for qualitative research. New York: Aldine de Gruyter.

What is coding?

- O Decoding micro-meaning from text [primary and secondary data]
- Oldentifying patterns of ideations, beliefs and behaviour
- O Conceptualization

Coding from script

Coding labels

Participant 31: General Practitioner 5

154 Professional role 155 156 157 Place & Space 158 159 Place & Space; Patient 160 experience 161 162 Primary-163 secondary care 164 165 Quality of care 166 Technology 167 168

169

170

I think, sometimes, I think again paediatrics has more in common with General Practice than most specialties, but obviously in General Practice you're looking at the whole person, not just the disease and obviously the good quality Paediatrician does that and if you're seeing people nearer to their home setting, then you can see, you know an outpatient department is a bit remote and I'm not saying it's inhumane but if you are in a setting you're comfortable in, you're going to be more relaxed, you might be more honest and open and give better quality answers particularly if there are social issues. It would be good for consultants to be, you know recognised in a certain area and I think they would appreciate that as well. So no I think, obviously ways in which care could deteriorate are in terms of records because obviously if the consultant doesn't have the notes, that's a disaster, so I don't know what the IT set up would be like, that would, you know obviously if the consultant can access notes remotely whatever you're planning, that would be very, very important.

Credit: http://bmcmedresmeth odol.biomedcentral.co m/articles/10.1186/1471-2288-13-117

Coding from script to theory

TEXT

Man #3: And that's when I thought it was weird Woman #2: Are you saying that's the first time you noticed? Really? Child #2: Where's my ketchup? Man #1: What's wrong with him not noticing? It's just a small thing. Woman #2: I think it's kind of small, but also kind of big. Me: It's important to realize any differences that exist. Man #4: I agree that it's not small at all, it's really, really important. Woman #1: What are we talking about again? Child #1: I like ponies. Man #5: If you all think that's important, what about the different ones? Woman #3: What different ones? I can't think of anything else. Man #5: You know, the ones that stick to the side.Man #3: And that's when I thought it was weird. Woman #2: Are you saying that's the first time you noticed? Really? Child #2: Where's my ketchup? Man #1: What's wrong with him not noticing? It's just a small thing. Woman #2: I think it's kind of small, but also kind of big. Me: It's important to realize any differences that exist. Man #4: I agree that it's not small at all, it's really, really important. Woman #1: What are we talking about again? Child #1: I like ponies. Man #5: If you all think that's important, what about the different ones? Woman #3: What different ones? I can't think of anything else. Man #5: You know, the ones that stick to the

CODE

code code

CATEGORY

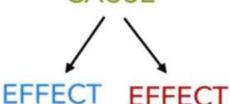
category

category

category

CAUSE

THEORY



Deductive Reasoning

EXPERIMENT



Defined/Open framework

Inductive Reasoning

OBSERVATION



Generalizations



THEORY

Defined framework

- Working on established framework / theories
- O RQs
- O Methodologies
- O Examining sets of data based on **deductive** approach
- Comparing current data with established theories

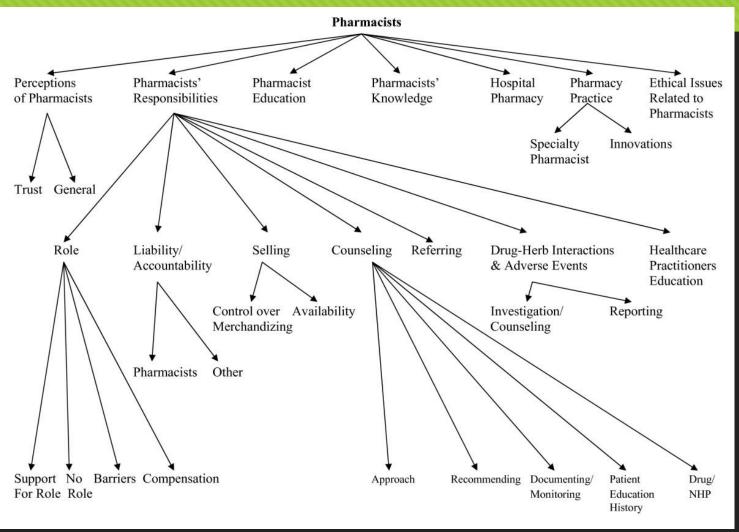
Open framework

- Exploring emerging theories
- O RQs
- Methodologies
- Developing a set of codes purely based on inductive approach
- Identifying emerging issues or framework for further research

Exploratory study: an example

Pharmacist coding tree

[47 full-time/part-time pharmacists using NVivo for analysis]



Exercise: Generating subthemes in an interview (1)



Think about sub-themes relating to the interview

Credit: https://www.youtube.com/watch?v=qeN_n_ytbMg&feature=youtu.be

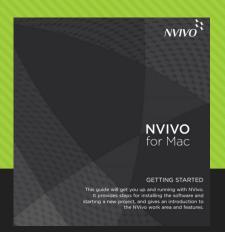
Exercise: Generating subthemes in an interview (2)

- O Keywords
- O Exchange programmes
- O International students
- O ...

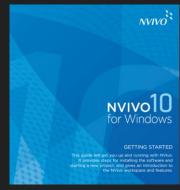
- Categories
- Experience [DO; impact]
- Satisfaction [FEEL]
- O Implication [Prediction; policy review]
- O ...
- Depending in the context of disciplines and research questions

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NVivo: a tool to support organization and analysis of data



Working in qualitative research: Managing messy and massive data

Note about using NVivo

- OPC & Mac
- Version 10; Version 11 [starter, professional, plus]
- O Project created from different platforms may not be transposed

[http://help-

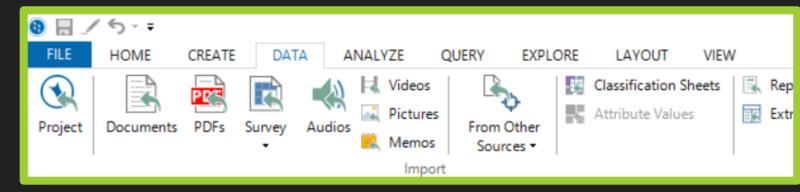
nv11mac.qsrinternational.com/desktop/deep_concepts/work_with_your_projects_on_windows_or_mac.ht m#MiniTOCBookMark6]

NVivo 10 & 11 (PC)

NVivo 10

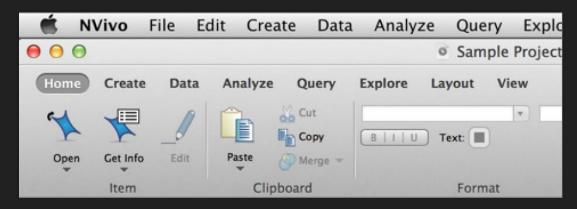


NVivo 11 Pro

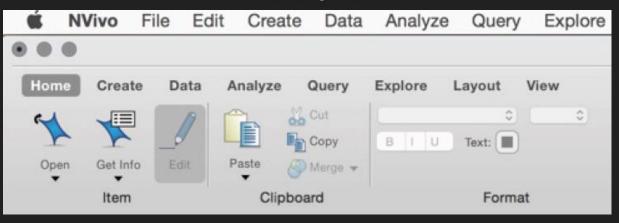


NVivo 10 & 11 (Mac)

NVivo 10



NVivo 11



NVivo overview



- O Importing data
 - O [https://goo.gl/sbPDx5] importing document
 - [https://goo.gl/zPSKxK] importing dataset [check whether column as classifying field or codable field]

Import a file [Word/Excel/PDF]

Word

I: expectations developing skills and knowledge on caring of patients through simulation.

Q: are resources provided enough?

S1: there are a lot of references but did not read all of them; read the key information sheet only

S2: the teacher provided additional web resource and I have read them. They are rele in SPS. It is very clear to me about brain attack with thrombolytic therapy

S3: have NOT read the web references, but have read the key information particularly I am not sure what role that I will play

S4: have not read the information provided; but read references that I had gotten a r related cares of the case. Certainly need to prepare before attending SPS.

Excel

ID	g ▽	▽	level_of ▼	coun∀	body
1	m	29	b	AU	I wonder how far the law should go to protect against the snooping media, I have been shocked at how wide spread the phone hacking story has reached in the UK.
2	m	29	b		Question is this: where can a 100 year old egg be obtained? sort of like a chinese delicacy and have proven very hard to obtain in my experience. they're very yummy and have only got some in a food court and once in a private residence, and at a restaurant that couldn't get next time (vague)
3	m	29	b		> Have you ever posted any "newsworthy" information that helped someone > beyond your social circle, for instance? Have you ever benefited from > the information from someone you don't personally know? Have you ever > relayed certain information (by re-sharing, re-tweeting, etc) to > others who have told you later that they benefited from the > information you relayed? if your car gets egged, wash it with a bit of water instead of letting it just dry and having the folic acid or whatever super nutrients eat at the paint which means nothing by now

Content analysis

Manifest

- Component
- Words [language used] with high frequency

Latent

O Interpretation of underlying meaning of the text

Raw data (primary / secondary data)

Research questions

- O Sampling ~ 10%
- Selected sampling after initial filtering (wrt RQs)
- O Bold the central idea from a sentence [without preconceived sub-themes / categories]

Coding (1)

- Starting from Node [Grounded theory]
 - Creating Node
 - O Select content > right click > new node https://www.youtube.com/watch?v=idv9tlLvgWc
 - Converting Nodes to Parent Nodes and Child Nodes

[linking: related, lead to, caused from]

[contrasting, differentiating]

O Copy a node to tree node / child node

https://www.youtube.com/watch?v=4crQbeHKhtk

- O Starting from a **framework/theories**
 - Creating a tree node with child node relating to the framework
 - O Select content > select the designated nodes

Coding (2)

Coding unit

- O Ideas
- Keywords [text search and save as nodes]

Health information

Digital behaviour

Organizational culture

- A phrase [from source]
- O Nodes

Coding scheme

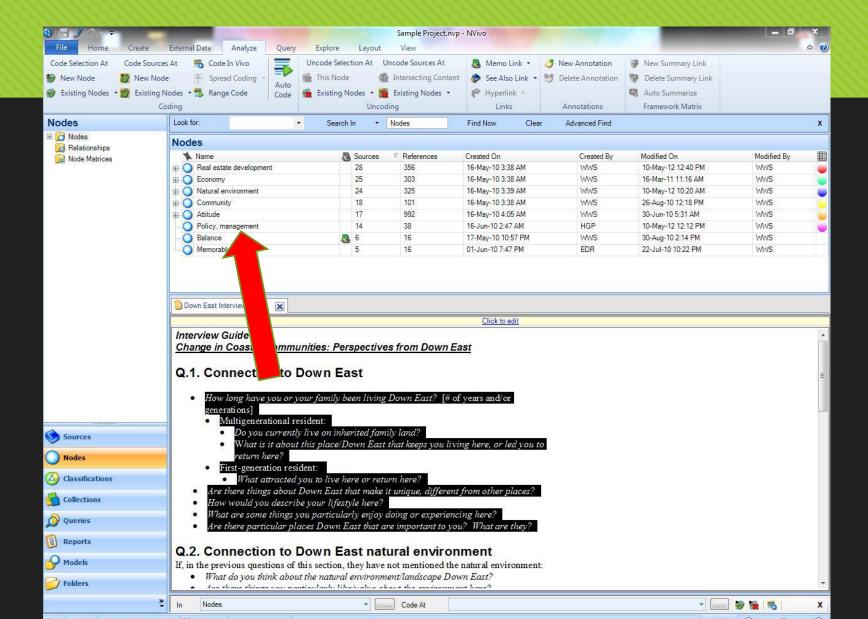
Categories [What]/

Themes [How: behavioral patterns; processes; capabilities] through aggregation of commonality

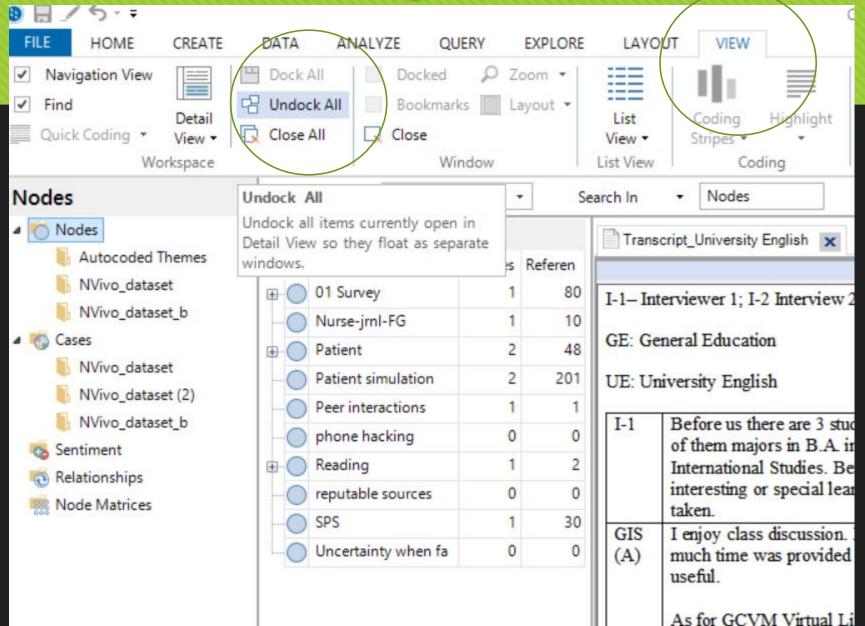
Cases

 Stakeholders [individuals, agegroups, gender]; categorized sectors; geographical locations

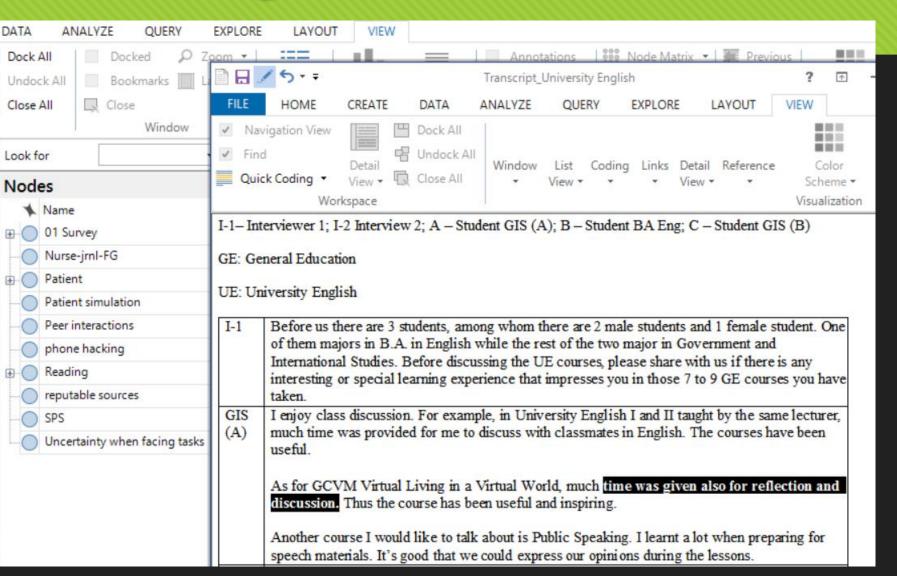
Coding – Drag and drop



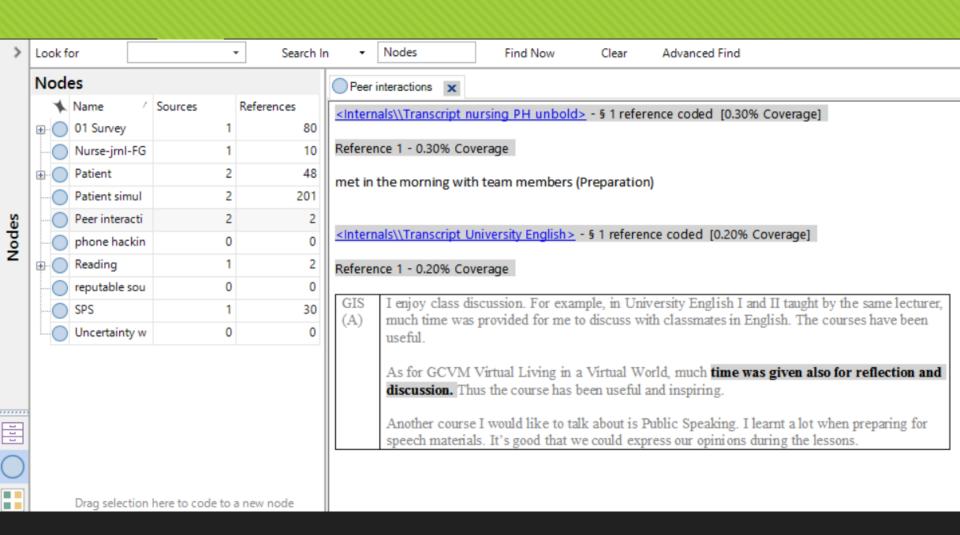
Before Coding - Undock All



Coding with full screen



Coding script in table



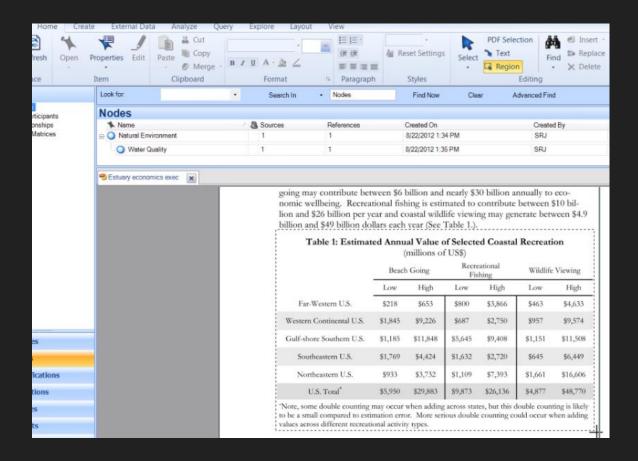
Coding PDF (text)

Properties Edit Spelling Clipboard Format Paragraph Styles Proofing Look for Search In Nodes Find Now Advanced Find Nodes tionships **★** Name A Sources References Created On Created By Modified On Matrices Natural Environment 8/22/2012 1:34 PM 8/22/2012 1:34 PM Water Quality 8/22/2012 1:35 PM 8/22/2012 7:33 PM Estuary economics exec VALUE OF COASTS AND ESTUARIES: What's At Stake? **Executive Summary** By Linwood Pendleton Our nation was built from the coast. Americans, like people around the world, are drawn to the coast because of its beauty, productivity, and because our coasts are gateways to the world. The coast nurtures our frontier spirit, our need for outdoor recreation, and the constant American appetite for sweeping ocean views and quiet bayfront vistas. Coasts, coastal oceans, and estuaries are essential to ocean fisheries and aquaculture. Coasts and their waters also generate oxygen, sequester carbon dioxide, and provide habitat to plants and animals both marine and terrestrial. "America's oceans and coasts Unfortunately, we have a poor track record when it comes to taking care of our coasts and estuaries. Years of badly planned coastal housing have lead to heroic, are priceless assets. and sometimes desperate, measures to hold back the forces of nature by using engi-Indispensable to life itself, neering rather than ecological stewardship. Seawalls have transformed once natura oasts into marine hazards unfit for the basic activities that first drew homeowner they also contribute the sea – swimming, boating, and fishing. Estuaries too have been under siege significantly to our prosperity ays once filled with fish and oysters have become dead zones filled with exces utrients, chemical wastes, and harmful algae. Wetlands, especially coastal sal

O By text

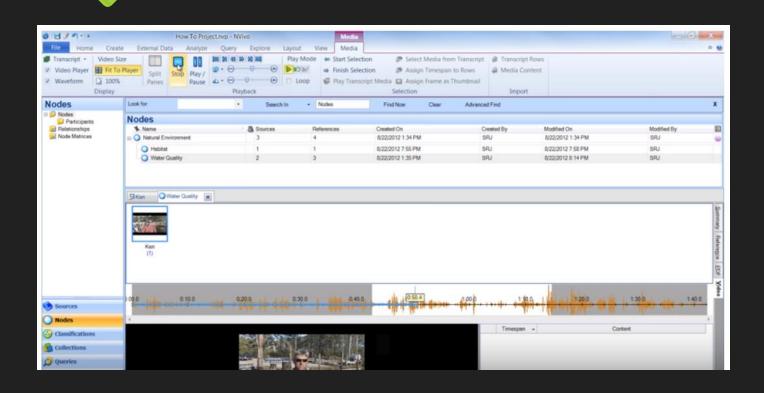
Coding PDF (Region)

O By region



Source: https://www.youtube.com/watch?v=fB_Gsmfnr7U

Coding video



Source: https://www.youtube.com/watch?v=5MKf6DeJAb0

Coding technique

- Code at an existing node
- Drag and drop coding
- O Code at a new node
- Using the Quick Coding bar
- Code results from queries
- Using nicknames to speed up coding
- Make a node from selected text (In Vivo code)

Credit:

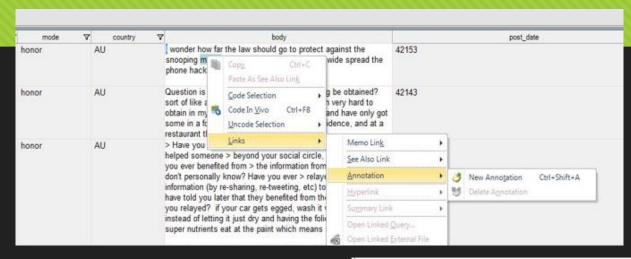
http://help-nv10.gsrinternational.com/desktop/procedures/more_manual_coding_techniques.htm [PC]

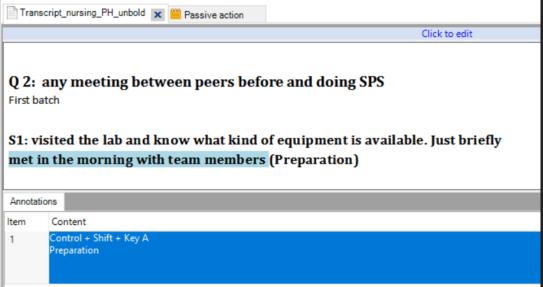
http://help-nv10mac.qsrinternational.com/desktop/procedures/more_manual_coding_techniques.htm [Mac]

Coding strategies

- Coding strips on
- O Doing a pilot with a few scripts
- Reviewing the coding system; avoiding many coding on the same script – keeping the dominant themes
- Inserting brief description about a node, example and exclusion – important when work with more than one coders
- O Making annotation in text where necessary

Making annotation [the document] (Ctrl+Shift+Key 'A')





Coding by categories

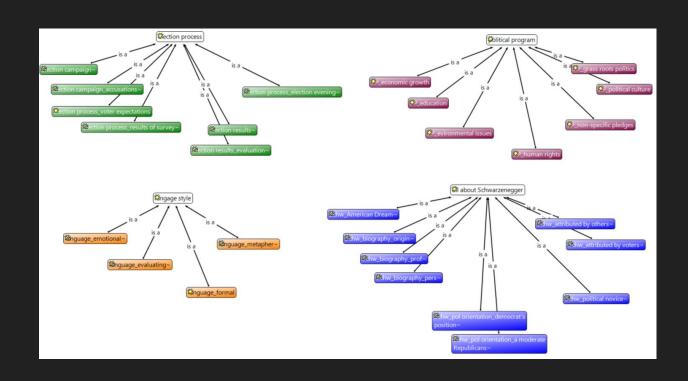


Image source:

http://www.quarc.de/fileadmin/downloads/figures/Figure%207.26_%20Developing%20categories%20in%20the%20form%20of%20hierachical%20trees.png

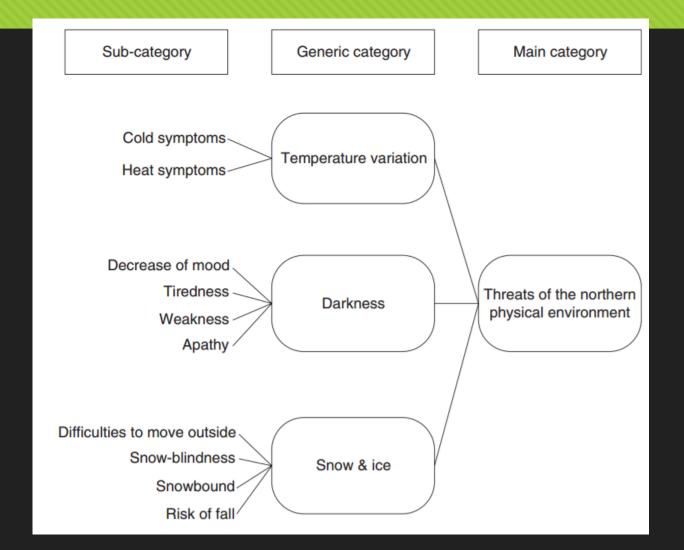
Categorization example (1)

Theme Category Sub- category	LACK OF CONTROL AND STRUGGLE FOR REGAINING CONTROL					
	SENSATIONS			ACTIONS		COGNITIONS
	Unfamiliar bodily sensations	Familiar but unexpected bodily sensations	Terrible feelings	Unfamiliar actions	Familiar but unexpected actions	Thinking difficulties
Codes	Double vision Emptiness in the head Emptiness in the stomach Stiffness in the tongue Unsteadiness Weightiness in the legs	Enormous hunger Palpitations of the heart Tremor Sweating	Frightened to death Loss of control Uncertainty Confusion	Fumbling Disconnected speech Disruptive behaviour	Urge to eat Verbal expressions of anger "Attack" on the refrigerator	Inability to think clearly Uncertainty of what to say Unawareness of surroundings

Graneheim, U. H., & Lundman, B. (2004). Qualitative content analysis in nursing research: concepts, procedures and measures to achieve trustworthiness. *Nurse education today*, 24(2), 105-112.

Categorization example (2)

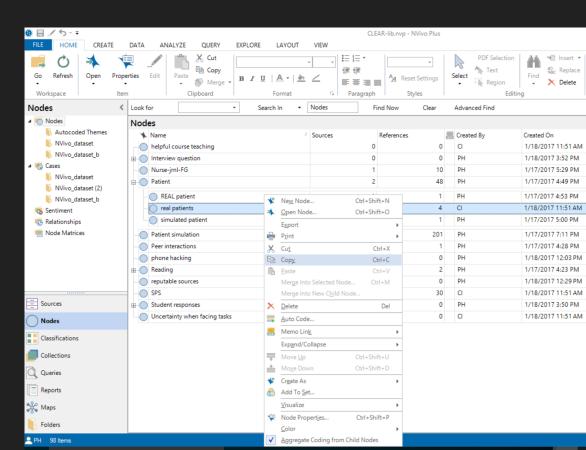
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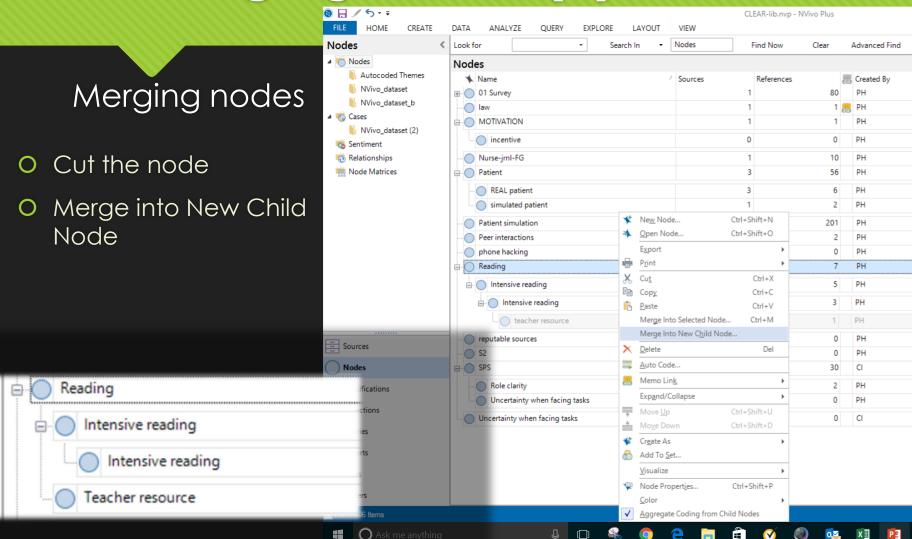
Managing nodes (1)

Organization of nodes

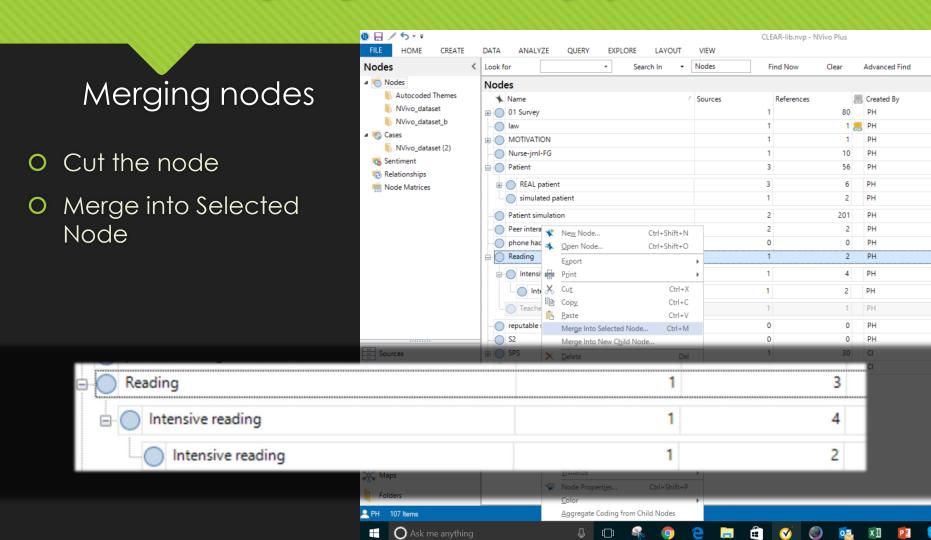
- O Drag and drop
 - O Form Child node
- O Rename
- O Delete



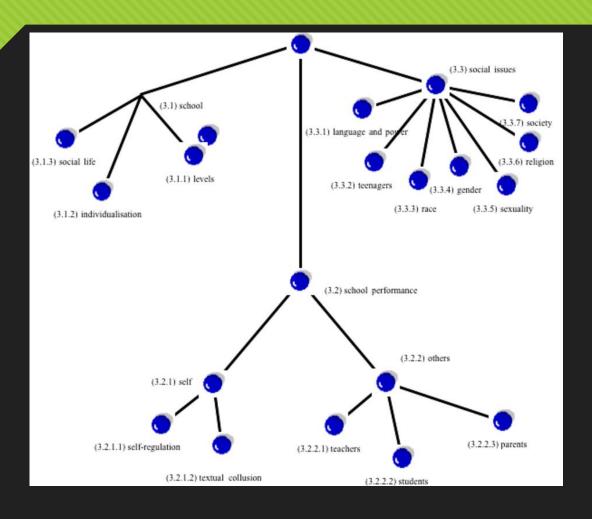
Managing nodes (2)



Managing nodes (3)



Levels of coding



Organizing nodes > themes

Organize your nodes



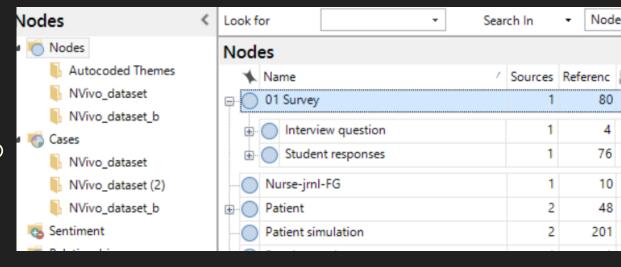
Organize your nodes

Build an efficient node hierarchy to clarify your thinking and reflect the association between themes

NVivo for Mac

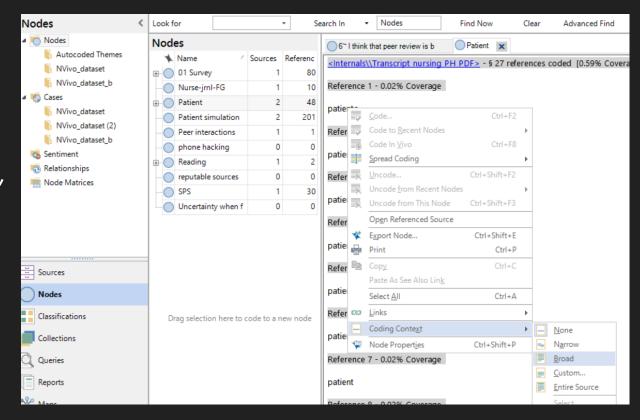
Organizing the viewing order of nodes

- O By hierarchy
 - O Alphabetical
 - O Add number before nodes to set your own node order



Viewing coding results

Spread: line, paragraph



Auto-coding: mechanical coding

Format the transcriptions in Style

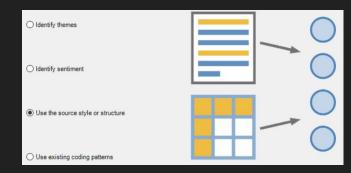
- O Heading 1: Parent (Main question)
- Heading 2: Child (Sub-questions)

Steps:

Code > Auto Code > Paragraph style > Select Heading 1 / Heading 2 > new node > naming of new node > OK

https://www.youtube.com/watch?v=G279rrEnWOI



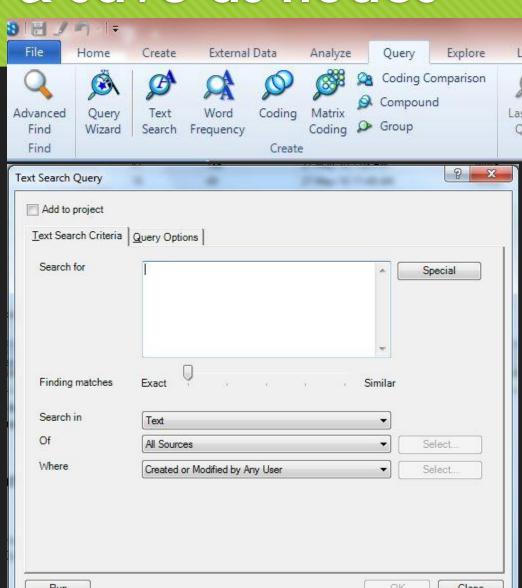


Text search & save as nodes

- Queries look for source content
- O Text Search Query

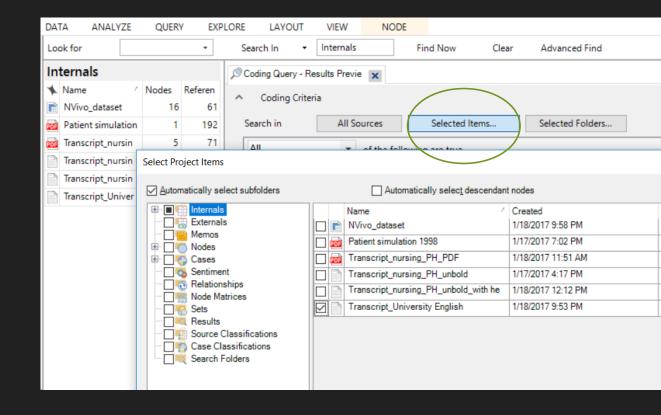
https://www.youtube.com/watch?v=CkRXmwqjATk

Saving the results as coding at nodes



Making query after coding (1)

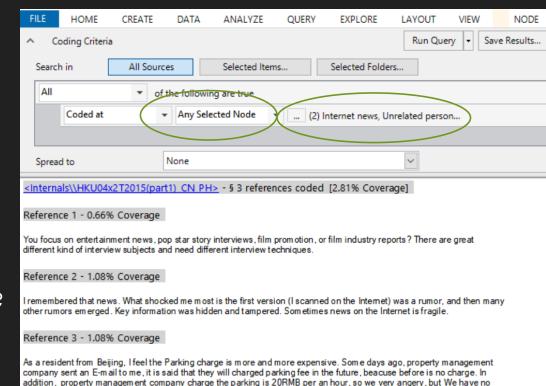
Search in 'Internal' source or 'Selected Items'



Making query after coding (2)

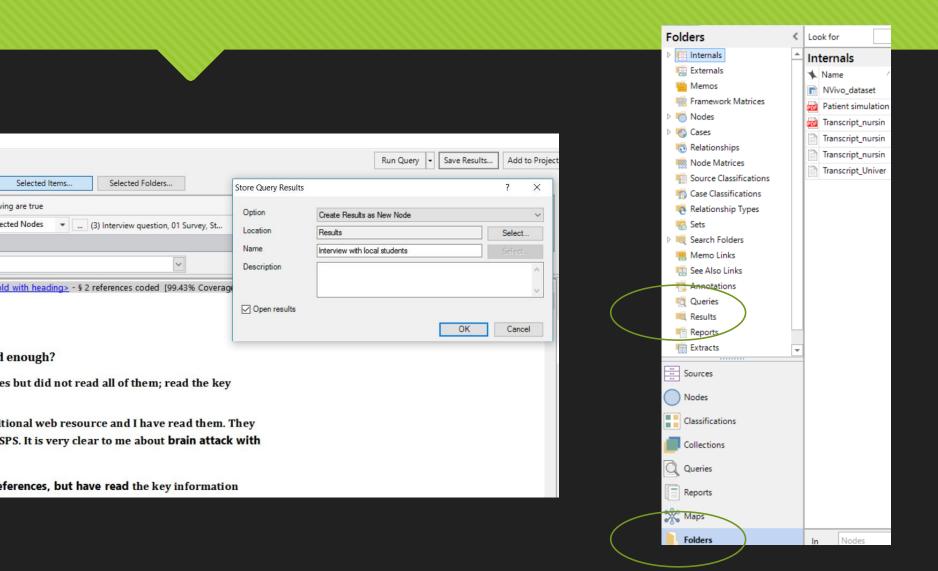
Select 'Any Selected Nodes' & Run Query

Source: https://www.youtube.com/watch? v=NRSRIVBJD4I



alternative, we must accept this rules. From now on, I have to by bus every day to reduce the Parking charge. May be I am

Save results in 'Result folder' or as new node



Validation of qualitative research

- OMultiple [independent] coding
- O High intercoder reliability

http://helpnv10.qsrinternational.com/desktop/pr ocedures/run_a_coding_comparison_ query.htm

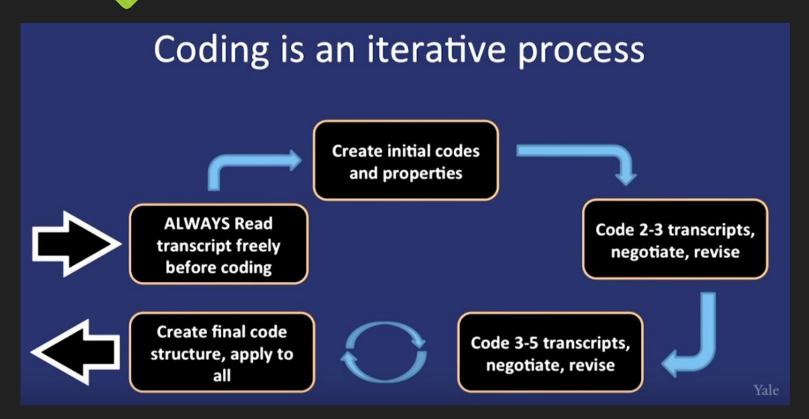
• Respondent validation

Verification techniques used in qualitative research

Technique	Using multiple data sources in an investigation to produce understanding			
Triangulation				
Peer review/ debriefing				
External audits/ auditing	Auditing involves having a researcher not involved in the research process examine both the process and product of the research study. The purpose is to evaluate the accuracy and evaluate whether the findings, interpretations, and conclusions are supported by the data			
Member checking	Data, analytic categories, interpretations, and conclusions are tested with members of those groups from whom the data were originally obtained. This can be done both formally and informally, as opportunities for member checks may arise during the normal course of observation and conversation			

Image source: http://www.annfammed.org/content/6/4/331.full.pdf+html

Coding process (1)



Coding process (2)

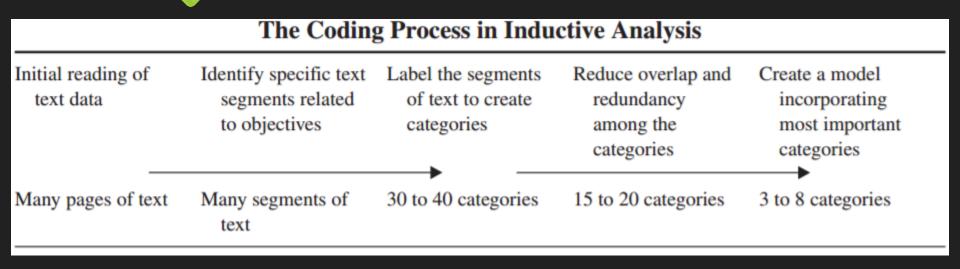


Image source: https://flexiblelearning.auckland.ac.nz/poplhlth701/8/files/general_inductive_approach.pdf

Model building

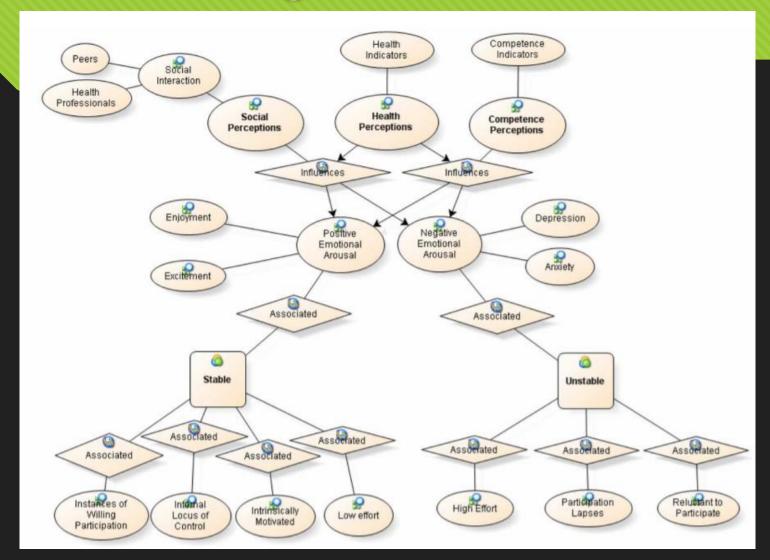


Image source: http://www.tandf online.com/doi/p df/10.1080/13645 570902996301?ne edAccess=true

Research processes

- Research questions / foci
- O Research methods, e.g. conducting interviews
- O Data collection
 - O Collect few interviews transcription
 - O Collect all interviews > transcription

O Data processing

- O Decide FULL transcription / summary of interviews
- Listen to few recorded interviews
- Decide what and how to code > categories / themes > sub-themes
 [common properties]
- Validate coding > regularly comparing codes; comparing codes between coders

BEFORE importing source materials

- Format: remove table in the Word file
- Data processing on interviewing script
 - Interviewees [pseudo name (unique ID), ID discipline]
 - O Entry by questions
 - Entry by main ideas
 - Entry by turns (interviewer / interviewee)
 - Transcription [relating to main research foci]
 - O Spoken manner
 - O Written form
 - Highlights in bold
- Create folders
- Import file as 'internal' source

Reflection

- O Data sources?
- Coding wrt RQs
- Coding consistency
- Coding reliability
- Latent meaning (missing coding)
- O Compare and contrast existing coding / examples
- Aggregation or expansion of themes/categories
- Supporting evidence [FGD, document (primary & secondary)
- O Reaching **saturation**

The final grounded theory should represent an explanatory model of the studied phenomenon grounded in relevant empirical data (Glaser & Strauss, 1967)

Conclusion

- O RE'SEARCH' > Providing evidence and supporting arguments through exhausting sources of data with renewal insights to formulate development of theories.
- O A systematic use of qualitative data analysis software can provide a reliable mechanism for conducting qualitative research.

Video tutorials (1)

O Importing documents in NVivo 10 for Windows in 3 minutes

https://goo.gl/sbPDx5

- O Importing datasets in NVivo 10 for Windows
 - https://goo.gl/zPSKxK
- O Getting started with NVivo

https://www.youtube.com/watch?v=Xe0NpJPLQ6k&t =921s

Video tutorials (2)

- Creating nodes in NVivo 10 for Windows in 2 minutes
 https://www.youtube.com/watch?v=idv9tlLvgWc
- Coding is faster and easier in NVivo 11
 https://www.youtube.com/watch?v=2ltGzs_uoog
- Coding a video in NVivo 10 https://www.youtube.com/watch?v=5MKf6DeJAb0
- NVivo 10 Text search Queries
 https://www.youtube.com/watch?v=CkRXmwqjATk
- Automatic coding techniques in NVivo 11
 https://www.youtube.com/watch?v=4S_xiW_vwWM

Video tutorials (3)

- *NVivo 11 Pro: Coding query
 https://www.youtube.com/watch?v=NRSRIVBJD41
- *Using NVivo 10 for Windows for Sociological Qualitative Data https://www.youtube.com/watch?v=vfqaW61o0rg

More videos for Window Users

- O Basic training NVivo 10 https://www.youtube.com/watch?v=x0axXcOAGiU
- O Autocoding
 https://www.youtube.com/watch?v=yKWj1HTOjR4
- Intermediate NVivo 11 training
 https://www.youtube.com/watch?v=XsplolE3Tvw
- Advanced NVivo 10 training
 https://www.youtube.com/watch?v=o9oiik67gNY
- O Power of coding
 https://www.youtube.com/watch?v=sLX8vaK3qTw

Videos for Mac Users

- Import Documents in NVivo for Mac | NVivo How-to Video (NVivo 10)
 https://www.youtube.com/watch?v=ITGuYL5Xu4c&list=PLNjHMRgHS4Ff
 https://www.youtube.com/watch?v=ITGuYL5Xu4c&list=PLNjHMRgHS4Ff
 https://www.youtube.com/watch?v=ITGuYL5Xu4c&list=PLNjHMRgHS4Ff
 https://www.youtube.com/watch?v=ITGuYL5Xu4c&list=PLNjHMRgHS4Ff
 https://www.youtube.com/watch?v=ITGuYL5Xu4c&list=PLNjHMRgHS4Ff
- How to import data from a spreadsheet in NVivo for Mac | NVivo Howto Video (NVivo 10)
 - https://www.youtube.com/watch?v=aSZC9mKu78Y&list=PLNjHMRgHS4 Ffw7846yApe-qTP1kUrN4RX&index=14
- O How to annotate in NVivo for Mac | NVivo How-to Video (NVivo 10) https://www.youtube.com/watch?v=YovxoK8Ahz4&index=13&list=PLNj HMRgHS4Ffw7846yApe-qTP1kUrN4RX
- Organize your nodes (NVivo 11) https://www.youtube.com/watch?v=KzLcFA0mWDQ

Videos for Mac Users

- Run a Text Search query with NVivo for Mac | NVivo How-to Video (NVivo 10)
 https://www.youtube.com/watch?v=816nFkivf3k&index=8&list=PLNjHMRgHS4Ffw7846yApe-gTP1kUrN4RX
- Getting Started in NVivo for Mac | NVivo Show and Tell Webinar (NVivo 10)
 https://youtu.be/w 5752 Rkog
- NVivo for Mac Overview (NVivo 11)
 https://www.youtube.com/watch?v=l-qvoGEZoW4=158s

More can be viewed at

https://www.youtube.com/playlist?list=PLNjHMRgHS4Ffw7846yApe-qTP1kUrN4RX (NVivo 10) https://www.youtube.com/playlist?list=PLNjHMRgHS4FfTN-GoztTaPLshavAb0NxR (NVivo 11)

Manual links for Windows and Mac

NVivo 10 manual for Windows

http://download.qsrinternational.com/Document/NVivo10/NVivo10-Getting-Started-Guide.pdf

NVivo 10 manual for Mac

http://download.qsrinternational.com/Document/NVivo10forMac/NVivo10-for-Mac-Getting-Started-Guide.pdf

NVivo 11 manual for Windows, [Pro and Plus]

http://download.qsrinternational.com/Document/NVivo11/11.4.0/en-US/NVivo11-Getting-Started-Guide-Pro-edition.pdf [Pro]

http://download.qsrinternational.com/Document/NVivo11/11.4.0/en-US/NVivo11-Getting-Started-Guide-Plus-edition.pdf [Plus]

NVivo 11 manual for Mac

http://download.qsrinternational.com/Document/NVivo11forMac/11.4.0/en-US/NVivo-for-Mac-Getting-Started-Guide.pdf