NVivo to analyse qualitative data

© Dr Rachel Shanks, University of Aberdeen

What we're going to cover – *'learning* outcomes'

01

Understanding of Computer Assisted Qualitative Data Analysis Software (CAQDAS) 02

What NVivo can and can't do

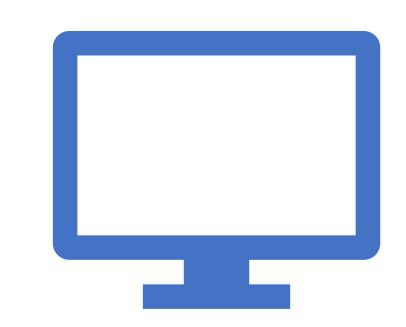
Design Framework for your NVivo Project

Data Type(s)	Unit(s) (case type in NVivo)	Variables (usually attributes of cases in NVivo)	Longitudinal study (yes or no)	Themes (codes in NVivo)
e.g. focus group transcripts, interview audio recordings, observation video recordings, photographs, policy or other documents	e.g. People, Institutions or Organisations Communities	e.g. age, gender, occupation of people e.g. location (country or region), size, sector (private, public etc.) e.g. population size, location (urban, rural etc.)		

- How did you learn to use email?
- How did you learn to use WordPerfect? WordStar? Word? Notes?
- How did you learn to use Excel? SPSS? Survey Monkey? Snap? Facebook? Twitter? Instagram?
- Is it by 'just doing it'? By using the software until you find out how to do things?
- Why should NVivo be different?

How do you learn to use new software?

- Are you conducting qualitative or quantitative research or mixed methods research?
- Have you used any other Computer Assisted Qualitative Data Analysis Software (CAQDAS)? If so, which one/s? Transana, atlas.ti, MAXQDA?



• What is your CAQDAS age?

<u>The Analytic Activities framework</u> <u>https://www.methodspace.com/blog/tools-for-teaching-computer-</u> <u>assisted-qualitative-data-analysis</u> - Christina Silver

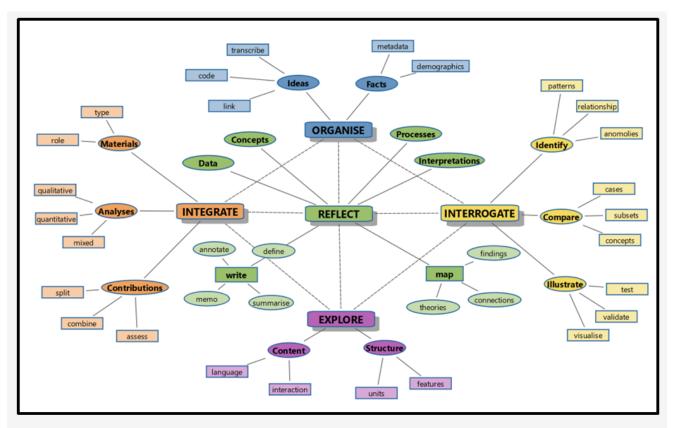


Figure 1. High-level Analytic Activities involved in qualitative and mixed-methods analysis and facilitated by CAQDASpackages (adapted from Silver & Lewins 2014).

Henry Talk about changes that you've seen in this area.

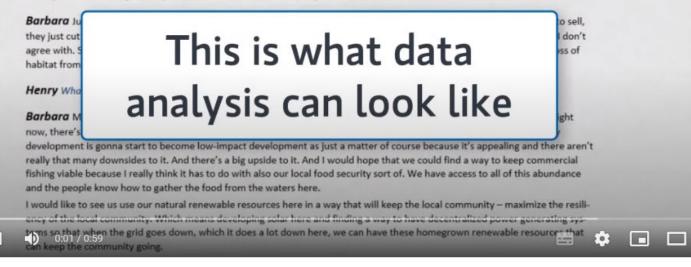
Play (k)

Barbara I think that now there's the sense the commercial fishing as a livelihood is dying as a viable option. And I know – I think that that is a change since 30 years or 35 years ago. I don't remember that being sort of this sense of doom. For me that's the most profound. That's a huge thing that I think is very sad. And that has to do with – that's such a complex situation – the water quality and also the overharvesting and tearing up of the bottom – all these different things that are factors.

Henry And what's contributed to the water quality issues? What's caused that problem?

Barbara The biggest factor in my understanding is stormwater runoff. Considering the amount of wetlands we have and the amount of land – we don't have a lot of impervious surfaces Down East. I think Down East is still in pretty good shape, as opposed to other parts of the county which are much more developed. I mean, there's agricultural runoff and septic system failures, but the largest thing in my understanding that affects the water quality is stormwater runoff. And that is as bigger developments and more dense developments – that would become more of a problem.

Henry Are there changes that you've observed to the landscape of the area?



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What can an NVivo project include?

- Data files
- Records of your thinking in Memos
- Nodes of coded references topics/themes, ideas, cases and relationships
- Variable-type information relating to sources and/or cases – called attributes and attribute values
- Records of and results from queries
- Maps, charts and graphs

Language

NVivo for Windows is available in:

English

Chinese (Simplified Chinese)

French

German

Japanese

Portuguese

Spanish

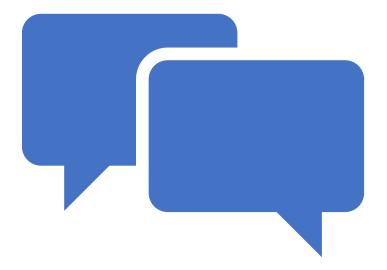
And NVivo for Mac is available in:

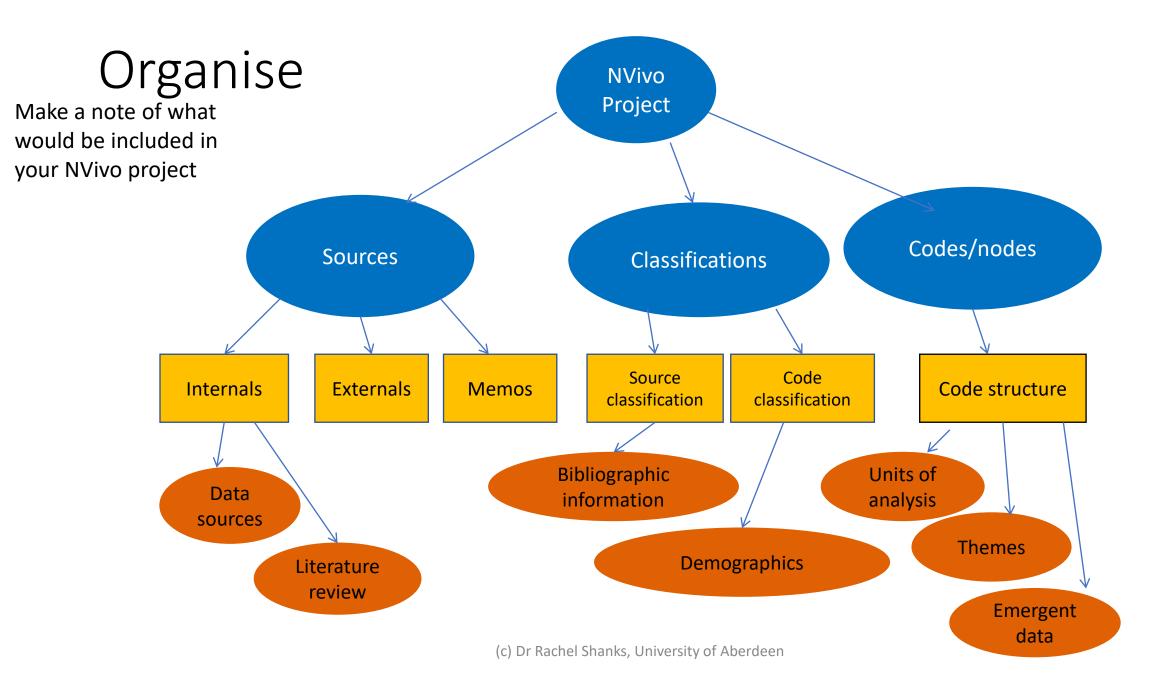
English

French

German

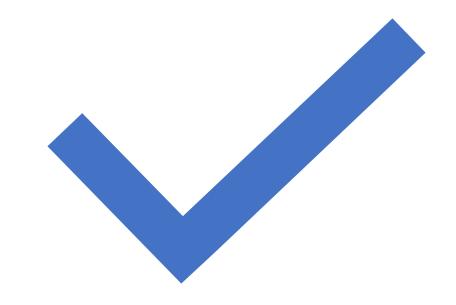
Spanish





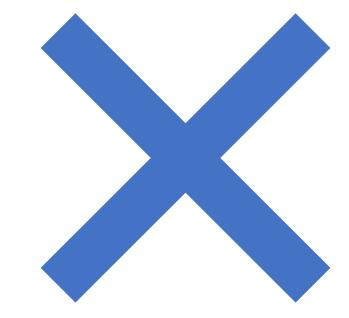
Benefits/ advantages of CAQDAS

- Easier to organise and access your data in folders and subfolders – the 'NVivo shell'
- Easier to put coding categories into hierarchies
- Can check coding by date/researcher
- Saves time and less room for human error
- Can visualise the data, see links and understand the data better



Risks/ disadvantages of CAQDAS

- Beware 'data fetishism' or the 'wow factor'
- Using CAQDAS does not automatically make the research better
- Assumption that meaning-making (data analysis) can be computerised and made routine
 - depends on an individual researcher's ability to analyse
- Technology can enhance the research process but objectivity and clarity are not necessarily increased or reduced by using a particular software package



How l've used NVivo

- My PhD pilot study and PhD study
 - Professional learning of new teachers
 - Interviews semi-structured
 - Online questionnaires closed and open questions
 - CPD documentation
 - Coded open questionnaire responses and interview transcripts
 - Iterative process between interviews and questionnaires and between participants

PhD study

File Home Create	External Data	Analyze	Explore	Layout	Vie	View				
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Sources

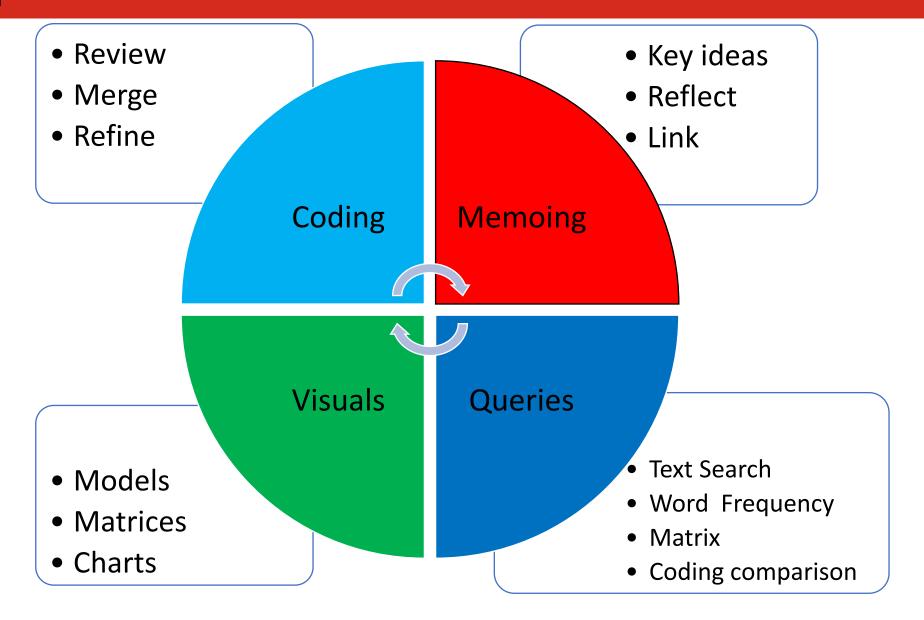
Classifications

) Nodes

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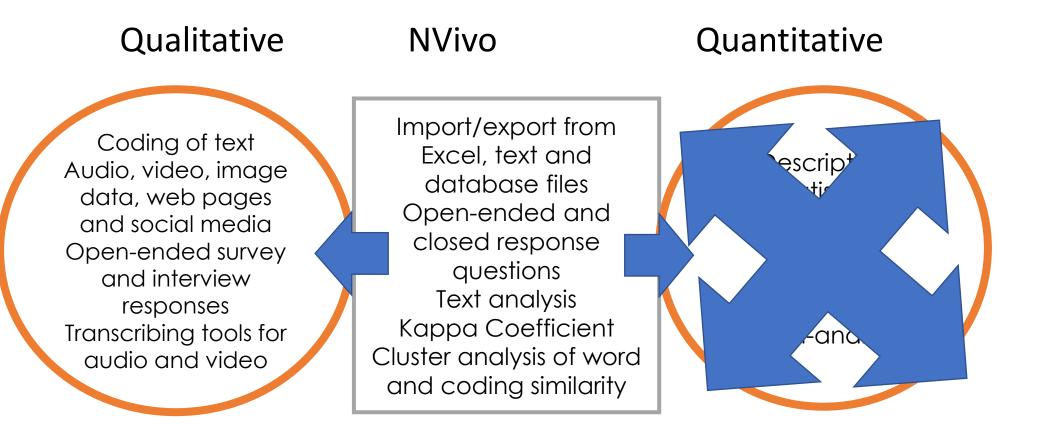
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QSR International



Mixed methods with NVivo

(Figure 2, p.4, The NVivo Teacher's Guide, 2013, QSR International, http://explore.qsrinternational.com/nvivo-teachers-guide)



Using NVivo for your literature review

Bibliographical or reference management application like

- EndNote
- Mendeley
- Zotero or
- RefWorks
- Citavi
- Add journal article PDFs in your reference software and then upload to NVivo
- Citation records are recognised as sources in your project and the bibliographical details are stored as 'source classifications' and attribute values.

See the video https://www.youtube.com/watch?v=U0YxxjdDC01

12 myths about NVivo

• Other powerpoint

Next steps

- 1. Download the software
- 2. Watch some videos on YouTube from QSR International and/or others <u>https://www.youtube.com/@NVivosoftware/videos</u>
- 3. Practise using the software and **explore the sample project that is** closest to what you are doing in your project
 - i. Create a project
 - ii. Upload materials transcripts/audio files/photos/video files/field notes (there is a short transcript in the webinar materials subfolder)
 - iii. Create some codes (remember to write a description)
 - iv. Do some coding
 - v. Create and write a memo

4. For help go to the <mark>?</mark> Button at the top right hand corner in NVivo in Windows and the Help tab at the top of the screen in Mac

Window Help

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