the right tools for the job

affordances of dedicated CAQDAS-packages for high-quality analysis

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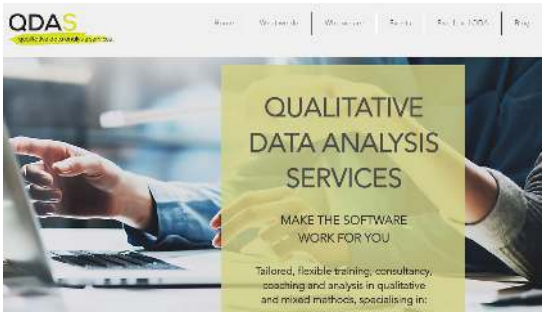
LinkedIn https://uk.linkedin.com/in/christina-silver-7a120224

CAQDAS networking project
Computer Assisted Qualitative Data AnalysiS



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Overview

- **analytic activities** facilitated by dedicated CAQDAS-packages
- fostering **high-quality analysis**: access, validation and transparency
- making **informed choices** between products

but first…

- a bit of history
- terminology

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A bit of history…origins

1980s academic social sciences

Qualitative approaches to analysing *qualitative* data

Now….

Cross-sector

- Public opinion
- Government
- Market research
- Voluntary
- Commercial

Cross-method

- Qualitative data
- Mixed data

- Qual analytic approaches
- Quant analytic approaches
- Mixed analytic approaches

- Throughout the research cycle

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The Ethnograph

HyperRESEARCH

MAX

MAXQDA The Art of Data Analysis

N·U·D I·S·T

NVIVO

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Plethora of choices

atlas.ti QUALITATIVE DATA ANALYSIS
CAT Coding Analysis Toolkit
dedoose Great Research Made Easy
Delve
discovertext
ELAN
The Ethnograph
f4analyse
interact
HyperRESEARCH
interpris
Kwalitan
LEIPZIG CORPUS MINER
LEXIMANCER
LiGRE
MAXQDA The Art of Data Analysis
NVIVO
WORDSTAT Content Analysis and Text Mining
QDA MINER Qualitative Data Analysis
SIMSTAT Statistical Analysis and Bootstrapping
qiqqa
QuIP
Quirkos
Raven's Eye
RQDA
recollective
Sonal
TLAB
transana
webQDA
WordSmith Tools

Terminology

- Computer ***Assisted*** Qualitative Data AnalysiS (CAQDAS) packages
  - Qualitative Data Analysis Software (QDAS)
  - Digital tools for qualitative analysis

dedicated CAQDAS-packages…?

- qualitative data (maybe also mixed and quantitative data)
  - Content searching
  - Coding
  - Linking
  - Querying
  - Writing/annotating
  - Mapping

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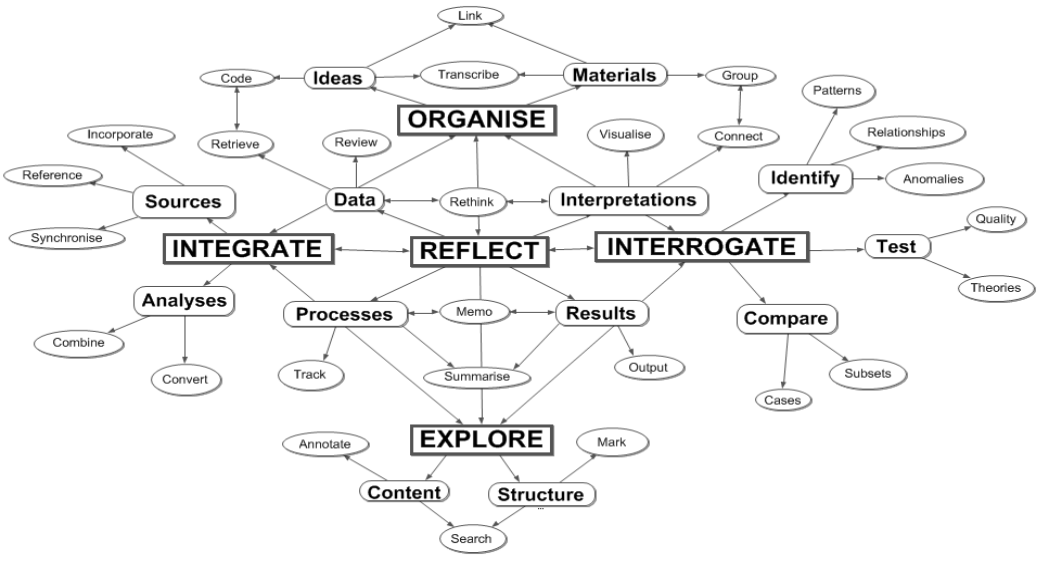
High-level Analytic Activities *undertaken in qualitative & mixed-methods research*

Adapted from Silver & Lewins (2014:44-58). See also Appendix 2, Woolf & Silver, pp198-200

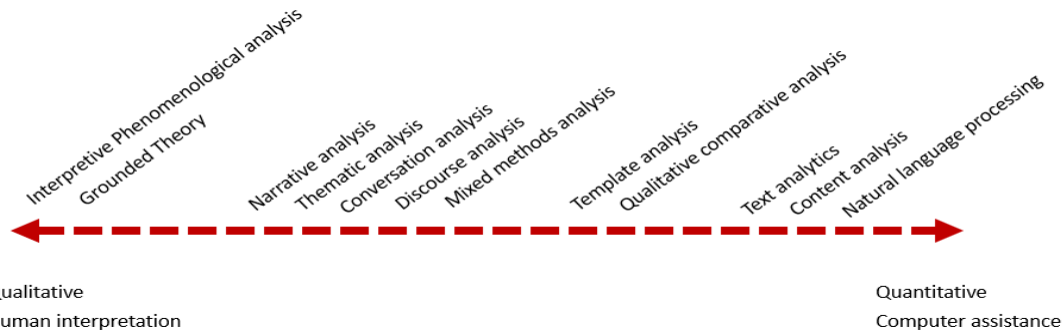
- **Integrate (combining parts into a whole)**
  - MATERIALS : types, role, relationship
  - ANALYSES : qualitative, quantitative, mixed
  - CONTRIBUTIONS: split and combine work, assess consistency
- **Organise (creating structures relating to objectives)**
  - FACTS : metadata, socio-demographics etc.
  - IDEAS : transcription, conceptualisation, associations
- **Explore (examining the inherent nature of data)**
  - CONTENT : surface level, language, familiarise
  - STRUCTURE : inherent structure repeated within/across data files
- **Reflect (considering carefully and deeply)**
  - WRITE : about data, process, interpretations and results
  - MAP : connections between and within data and concepts
- **Interrogate (following up what has been done)**
  - IDENTIFY patterns, relationships, anomalies
  - TEST theories/hypotheses, validate interpretations
  - COMPARE subsets and cases



Lewins & Silver (2014:45) Using Software in Qualitative Research : A step-by-step guide. Sage Publications. London

Fostering high-quality analysis

The 'criteriology' debate



How can CAQDAS-packages contribute…?

…No direct correlation between use of CAQDAS-packages and quality

Access Validation Transparency

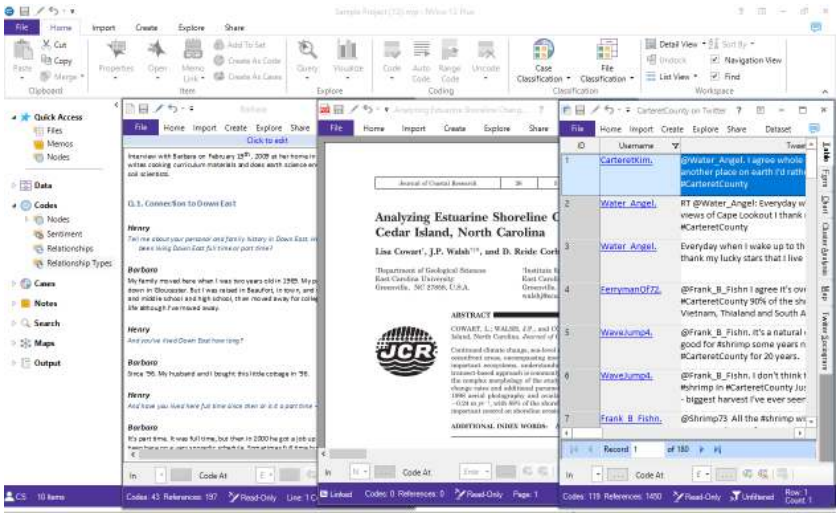
Access: to…

data: viewing multiple sources, synchronising media

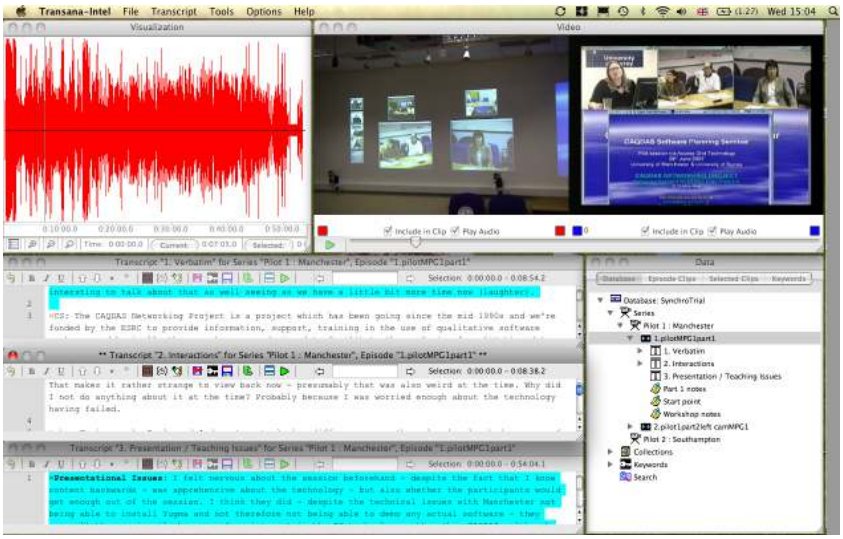
analytic work: coding, in-text memo-ing, hyperlinking

contributions: comparing coding, adjudicating coding

Access: to data (viewing multiple sources)



Access: to data (synchronising media)



Access: to analytic work (coding)

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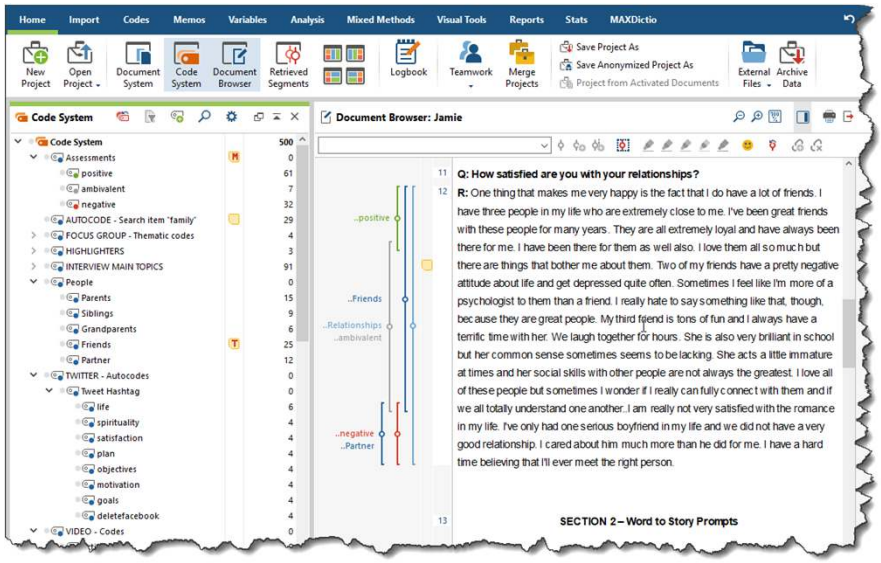

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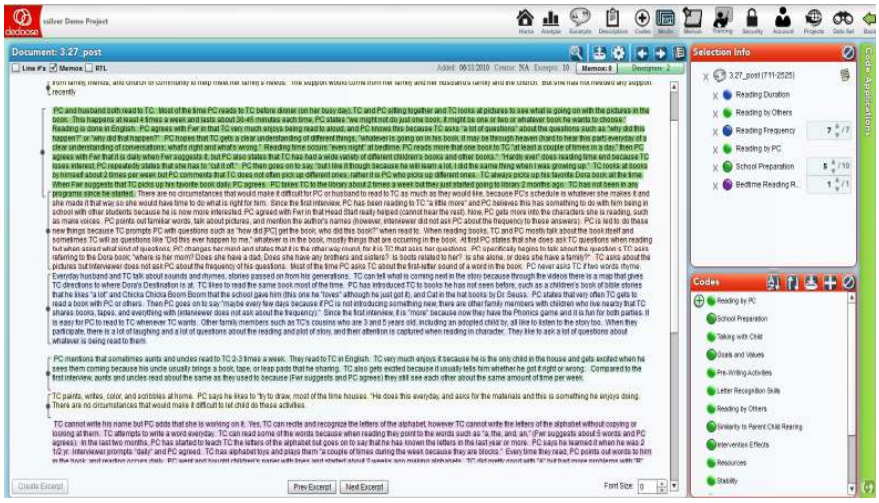
Access: to analytic work (coding)

dedoose Great Research Made Easy



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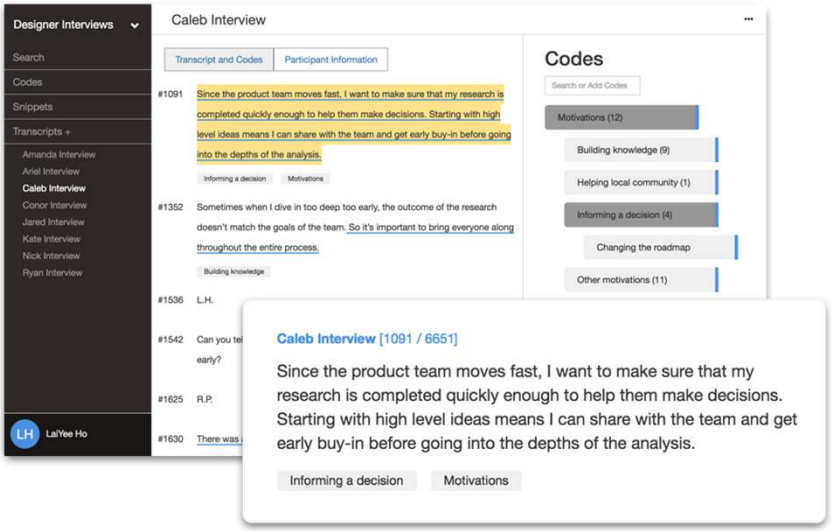
Access: to analytic work (coding)

Delve



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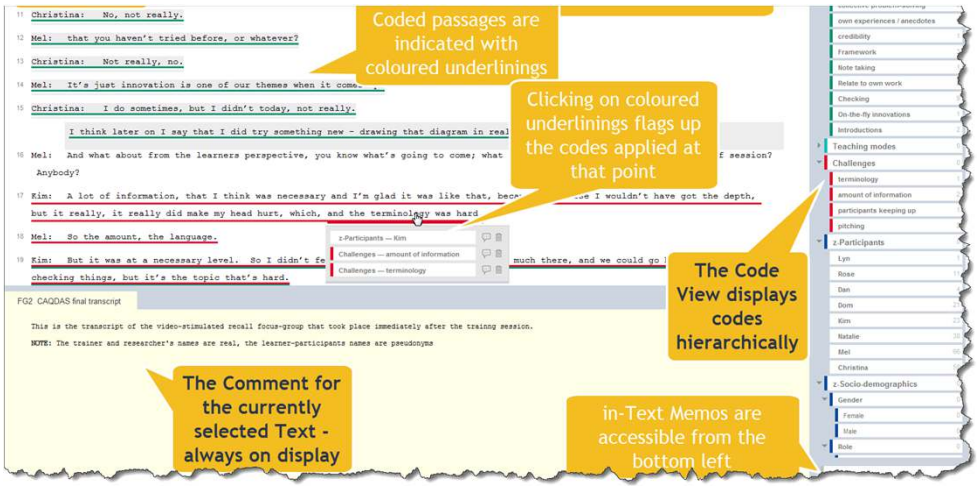
Access: to analytic work (in-text memo-ing) f4analyse



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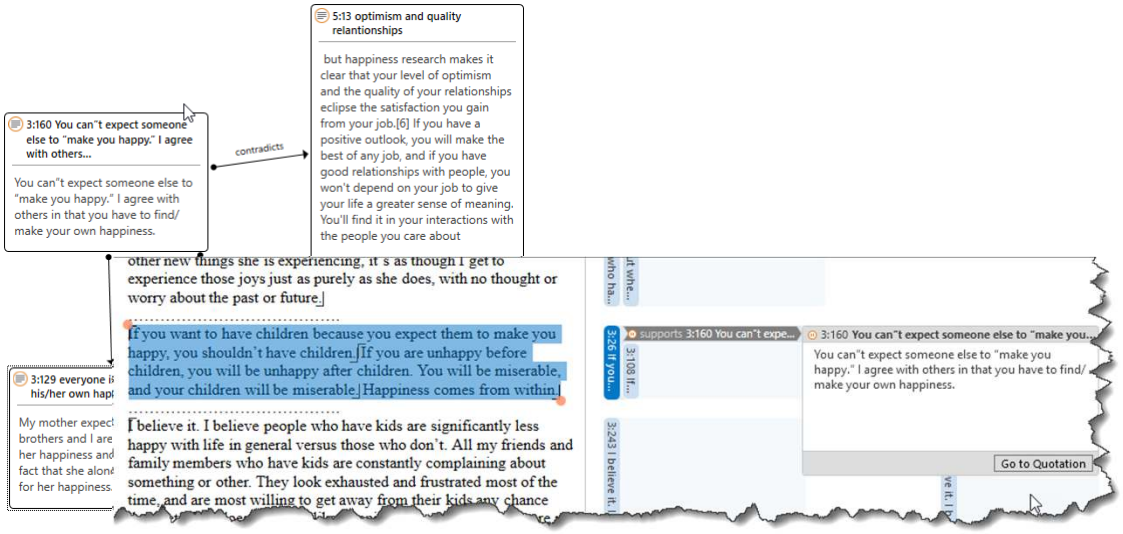
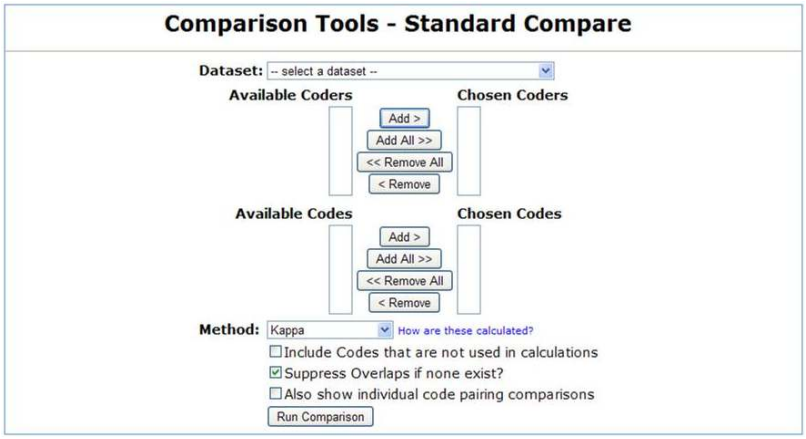
Access: to analytic work (hyperlinking)



Access: to contributions (comparing coding)



Access: to contributions (comparing coding)

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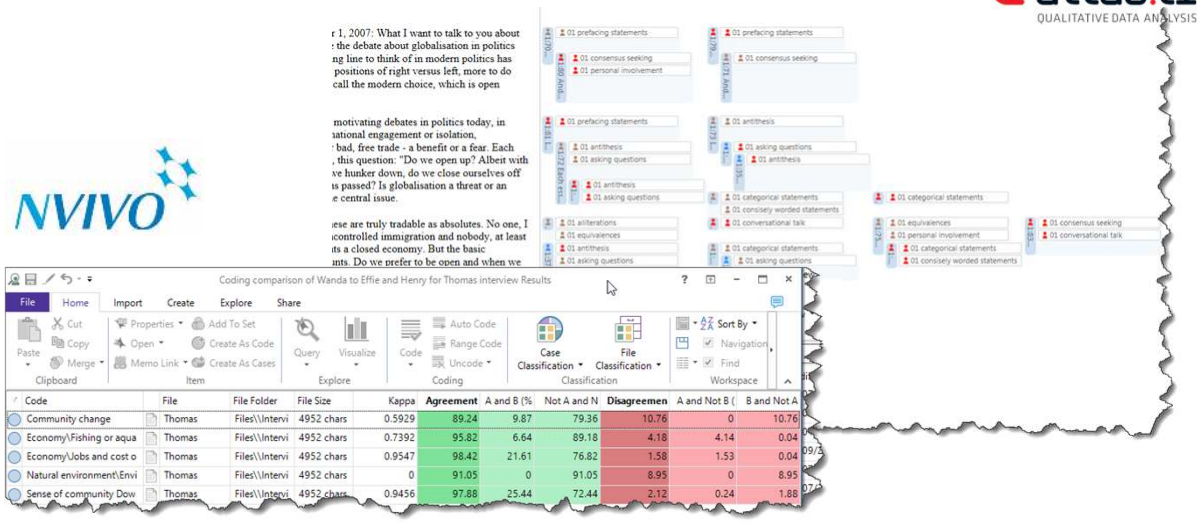
NVIVO



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Access: to contributions (adjudicating coding)

discovertext

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Validation

Interrogating patterns and relationships

Identifying anomalies

Confirming interpretations

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Validation: interrogating patterns and relationships

Common queries

- Text search
- Word frequency

- Code co-occurrence
- Code proximity
- Code comparison

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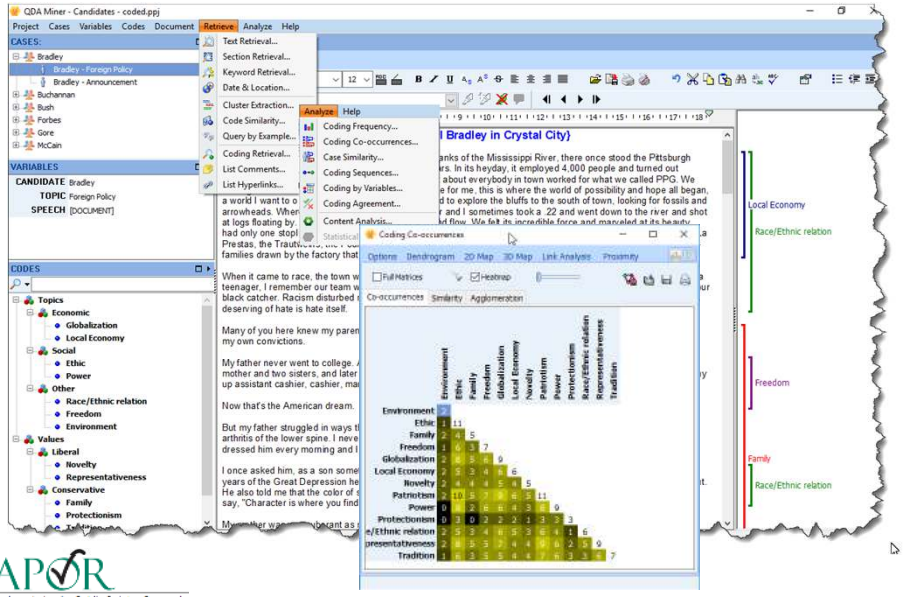
Validation: identifying patterns and relationships



WORDSTAT Content Analysis and Text Mining
QDA MINER Qualitative Data Analysis
SIMSTAT Statistical Analysis and Bootstrapping

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Validation: identifying patterns and relationships

Quirkos

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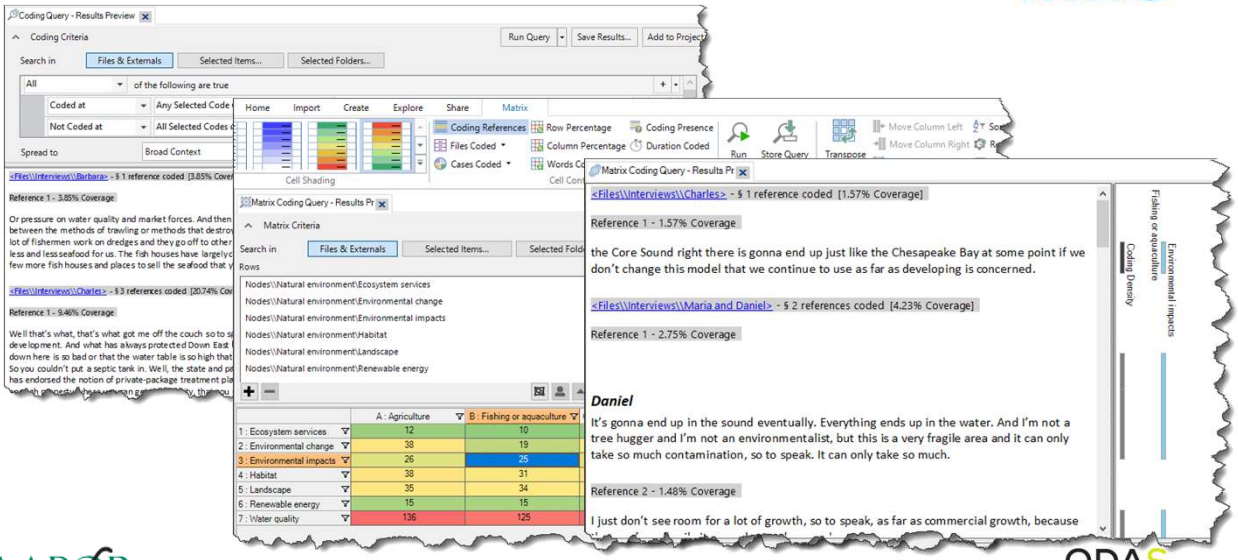
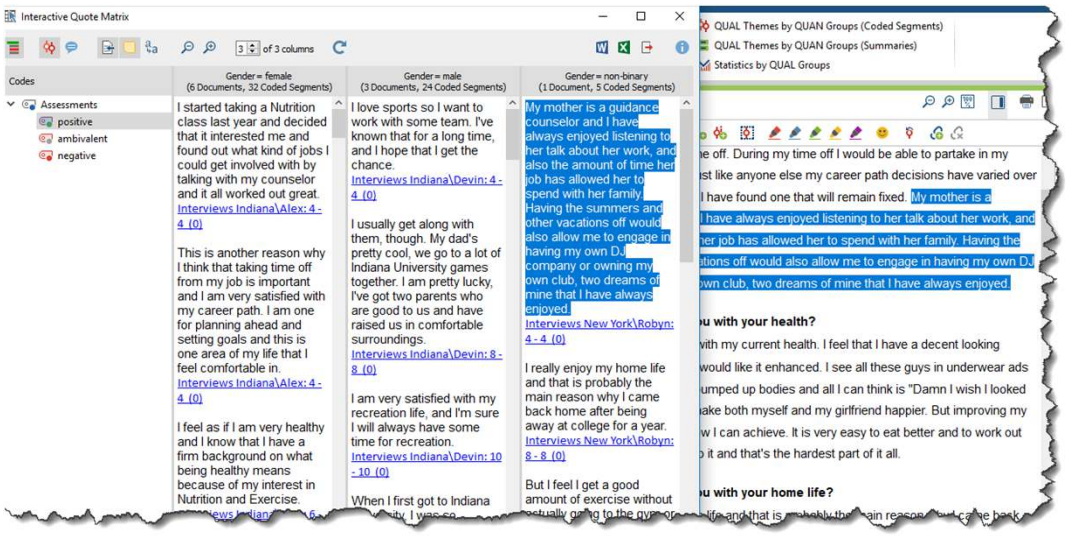
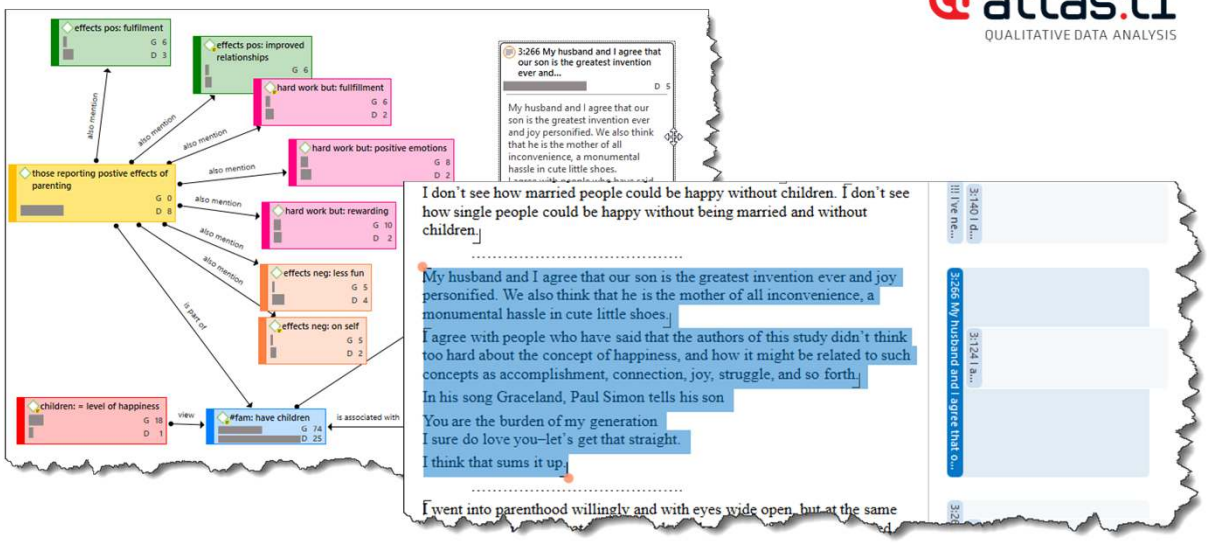
Validation: identifying anomalies



Validation: confirming interpretations



Validation: confirming interpretations



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Transparency

Documenting process: technical, narrative & visual

Visualising results

Exporting and sharing

Exchanging between products

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Transparency: documenting process (technical)

NVIVO

Event Log

Logged	Name	Location	Event	Detail	User
25/06/2010 17:23	Down East Sample Project		Enabled Event Logging		Wanda Swope
25/06/2010 17:24	Interviewees	Sets	Created		Wanda Swope
25/06/2010 17:25	Atlantic	Queries\\test	Modified	Modified Properties	Wanda Swope
25/06/2010 17:27	Atlantic	Queries\\test	Modified	Modified Properties	Wanda Swope
25/06/2010 17:27	Atlantic	Results	Created	Stored Query Results	Wanda Swope
25/06/2010 17:27	Down East Sample Project		Disabled Event Logging		Wanda Swope
25/06/2010 17:34	2010 06 Team project proces	Memos\\Progress Reports	Modified		Wanda Swope
25/06/2010 17:34	Down East Sample Project		Enabled Event Logging		Wanda Swope
25/06/2010 17:41	Sources without interviewer v	Sets	Created		Wanda Swope
25/06/2010 17:43	Sources without interviewer v	Sets	Modified		Wanda Swope
25/06/2010 17:43	2010 06 Team project proces	Memos\\Progress Reports	Modified		Wanda Swope
25/06/2010 17:45	2010 06 Team project proces	Memos\\Progress Reports	Modified		Wanda Swope
25/06/2010 17:45	2010 06 Team project proces	Memos\\Progress Reports	Modified		Wanda Swope
25/06/2010 17:46	2010 06 Team project proces	Memos\\Progress Reports	Modified		Wanda Swope

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Transparency: documenting process (narrative)

MAXQDA The Art of Data Analysis

Logbook

Calibri 11

08/01/2020 09:03 Christina
Before commencing coding we decided to initially explore the content of all data files using text search tools. The results are saved in the Early Familiarisation Memo. We're going to collectively review these results and discuss their implications for the intended coding framework, before commencing

07/01/2020 15:42 Christina
We implemented the initial coding framework into the Code System, defining each code (in terms of it's conceptual meaning, and includion/exclusion criteria). Also indicated source of each code (e.g. literature, research objectives, expectations, etc.) through use of colour

07/01/2020 14:12 Christina
The team met this morning to plan the analysis in detail - see the Analysis Planning Memo for full details.

06/01/2020 12:23 Christina
Started this project, with importing the data files, organising them into groups, according to type, and setting up Memos for research objectives and team-working protocols

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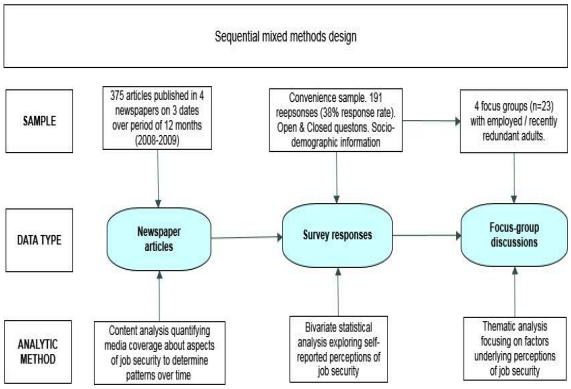
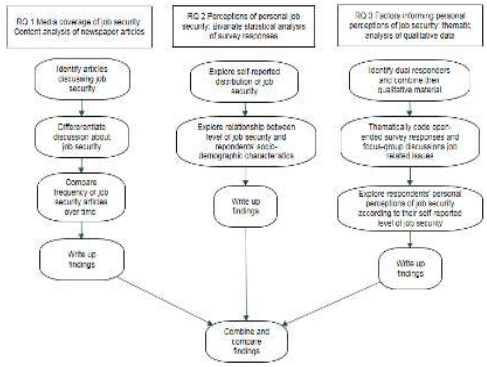
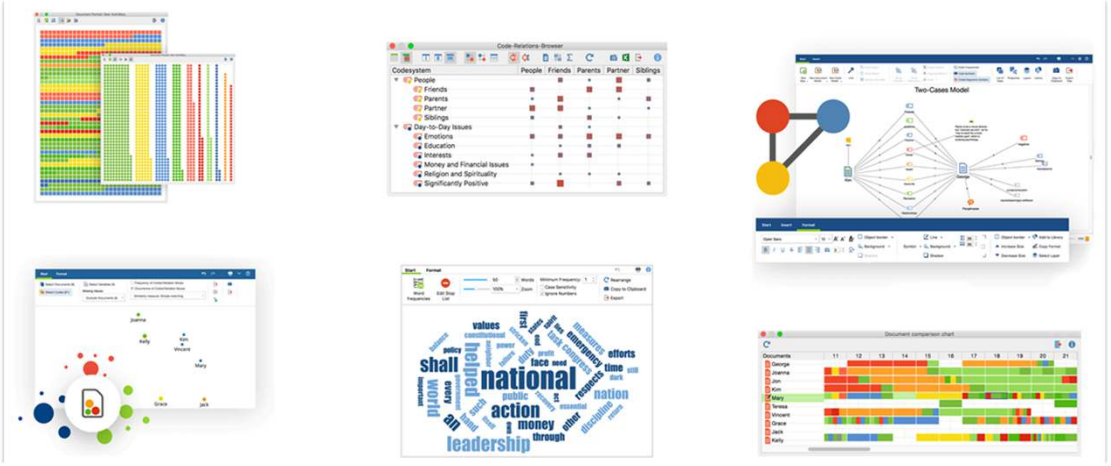
Transparency: documenting process (visual)



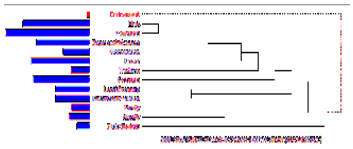


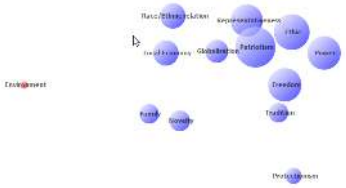
Transparency: visualising results

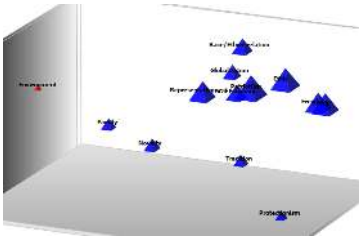


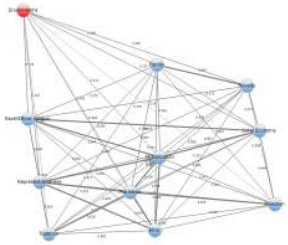
Transparency: visualising results

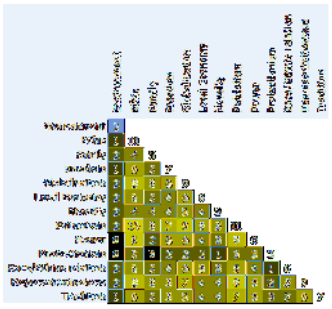
QDA MINER
Qualitative Data Analysis

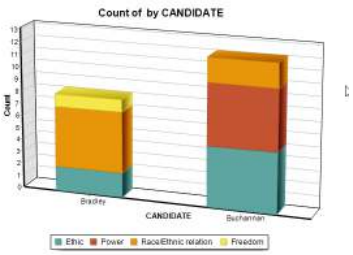












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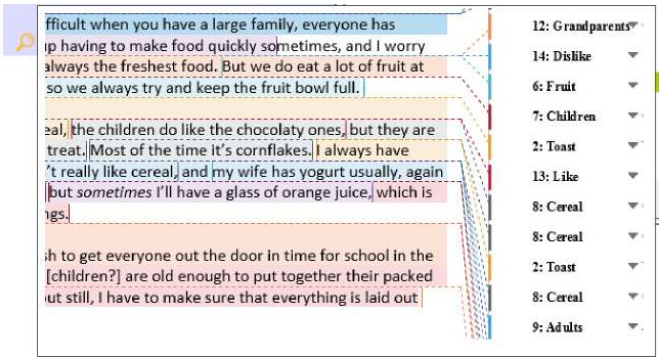
QDAS
qualitative data analysis services

Transparency: exporting and sharing

Quirkos



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Transparency: exchanging between products

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f4analyse

dedoose Great Research Made Easy

MAXQDA The Art of Data Analysis

NVIVO

QDA MINER Qualitative Data Analysis

Quirkos

transana

QDR QUALITATIVE DATA REPOSITORY

Data Archiving and Networked Services DANS

DataverseNO

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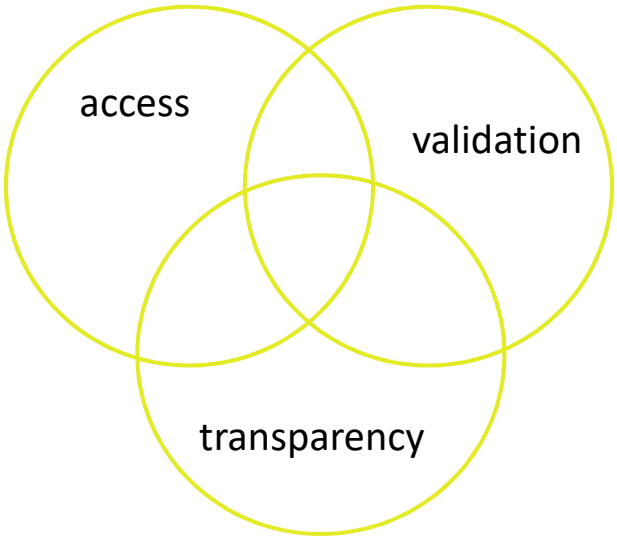
QDAS qualitative data analysis services

Using CAQDAS-packages to illustrate quality



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Making informed choices between products

Practical considerations

- Technical
- Team-working
- Learning curve
- Resources

Methodological considerations

- Data (types and amounts)
- Analytic approach
- Computer assistance
- Outcome requirements

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Plethora of choices

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CAT Coding Analysis Toolkit
dedoose Great Research Made Easy
Delve
discovertext
ELAN
The Ethnograph
f4analyse

interact
HyperRESEARCH
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Kwalitan
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qiqqa
QuIP
Quirkos
Raven's Eye

RQDA
recollective
Sonal
TLAB
transana
webQDA
WordSmith Tools

Resources

Product websites – feature overviews, demo versions, tutorials

CAQDAS Networking Project reviews

https://www.surrey.ac.uk/computer-assisted-qualitative-data-analysis/resources/choosing-appropriate-caqdas-package