Overview Three approaches to text analysis ☐ Qualitative Analysis □ Quantitative Content Analysis □ Text Mining Introduction to Provalis Research software QDA Miner ☐ Introduction and project management ☐ Codebook management and manual coding ☐ Security features and text retrieval tools ☐ Coding Frequency and Retrieval ☐ Code co-occurrence and case similarity analysis ☐ Assessing relationship between coding and variables ☐ Using the Report Manager and the Command Log ☐ Performing teamwork ☐ Miscellaneous Functions WordStat ☐ Content Analysis or Text Mining ☐ Analyzing words without dictionaries - a text mining approach ☐ Content Analysis - Principles of dictionary construction ☐ Importing and exporting data ☐ Introduction to automatic document classification Day 1 December 6, 9 am-to-5pm **QDA Miner** Part 1 - Introduction and project management Introduction to CAQDAS using QDA Miner ☐ The CASE x VARIABLE file structure ☐ The Mixed-Method approach Quick overview of the work environment ☐ The four windows - CASE, VARIABLES, CODES, and DOCUMENT ☐ The menu system Creating of a new project ☐ Creating a new project from a list of documents ☐ Creating a new project from an existing data file ☐ Creating an empty project / defining structure ☐ Using the document conversion wizard Customizing and personalizing the project ☐ The PROJECT | PROPERTIES dialog ☐ The PROJECT | NOTES command Manipulating variables ☐ Adding a variable - VARIABLES | ADD

☐ Deleting a variable - VARIABLES | DELETE

☐ Changing the variable data type - VARIABLES | TRANSFORM

Recoding the values of a variable - VARIABLES TRANSFORM RECODE Reordering variables - VARIABLES REORDER Changing variable properties - VARIABLES PROPERTIES Manipulating cases Add a new case - CASES ADD Deleting cases - CASES DELETE Importing new documents in new cases - CASES APPEND DOCUMENTS/IMAGES Changing the case grouping and description - CASES GROUPING/DESCRIPTOR
PART 2 - Codebook management and manual coding
Creating codes and managing the codebook
☐ Creating codes and categories - CODES ADD
□ Modifying an existing code - CODES EDIT
□ Delete existing codes - CODES DELETE
☐ Moving codes in the codebook
□ Merging codes in the codebook - CODES MERGE
□ Splitting codes in the codebook - CODES SPLIT
□ Importing an existing codebook - CODES IMPORT
Manual coding of documents (versus autocoding)
☐ The four basic methods for assigning codes to text segments:
Highlight text segment then drag a code Highlight text segment then double-click a code
3. Highlight text segment then select code and button (toolbar) 3. Highlight text segment then select code and button (toolbar)
Drag and drop a code over a paragraph (or a sentence – press ALT)
□ Assignment of multiple codes to the same segment (press CTRL)
Modifying existing coding
□ Working with code marks
☐ Viewing coding information
□ Adding a comment to a coding - □ COMMENT
□ Remove a coding - □ REMOVE CODING
□ Change the code assigned to a text segment -□ RECODE TO
□ Resizing a segment - □ RESIZE
□ Consolidating codes - CODES CONSOLIDATE
☐ Searching and replacing codes - CODES SEARCH & REPLACE
☐ Hiding code marks - CODES HIDE CODINGS
☐ Highlighting coded segments - DOCUMENT CODED TEXT
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PART 3 – Security features and text retrieval tools
Using backup features ☐ Creating a permanent backup - MAINTENANCE BACKUP CREATE
□ Restoring a backup - MAINTENANCE BACKUP RESTORE
☐ Using the temporary session backup
Text retrieval tools (4)
1. Searching for text - ANALYSIS TEXT RETRIEVAL
□ Performing a simple text search
□ Performing a complex text search (using Boolean and wildcard)
□ Performing a thesaurus search
Using the "search hits" table
□ Performing manual coding and autocoding
☐ Saving to disk or printing the table 2. Petrioving sections in structured documents. ANALYSIS I SECTION RETRIEVAL
2. Retrieving sections in structured documents - ANALYSIS SECTION RETRIEVAL 3. Performing a query by example - ANALYSIS QUERY BY EXAMPLE
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□ Finding text similar to a sample text segment □ Providing relevance feedback to improve search results □ Finding text similar to specific coded segments □ Performing a "fuzzy string matching" 4. Performing a keyword search □ Assigning keywords to codes □ Performing a keyword retrieval on internal codes □ Performing a keyword retrieval on WordStat dictionary files
PART 4 - Coding Frequency and Retrieval
Coding frequency □ Creating a frequency list of all codes - ANALYSIS CODING FREQUENCY □ Creating a barchart or a pie chart on selected codes □ Customizing the chart Coding Retrieval □ Performing a simple coding retrieval - ANALYSIS CODING RETRIEVAL
□ Performing a complex search □ Creating a text report
□ Creating a new project from
□ A shortcut for simple coding retrieval - □ RETRIEVE SEGMENTS Saving and Retrieving Queries Retrieving a list of comments
Day 2
December 7, 9am-12pm
PART 5 - Code co-occurrence and case similarity analysis Analyzing codes co-occurrences - ANALYSIS CODING CO-OCCURRENCE Hierarchical clustering of codes 2D and 3D multidimensional scaling plots Using the Proximity plots Assessing similarity of cases Analyzing code sequences - ANALYSIS CODING SEQUENCES Choosing codes and setting minimum / maximum distances Using the Sequence matrix Searching and coding specific sequences
PART 6 - Assessing relationship between coding and variables
Analyzing coding by variables - ANALYSIS CODING BY VARIABLE Crosstabulating coding frequency by variables Setting the content and format of the table Computing correlation or comparison statistics Comparing frequencies using barcharts or line charts Creating and interpreting 2D and 3D correspondence plots Creating and interpreting heatmaps A quick overview of graphic coding features
PART 7 - Using the Report Manager and the Command Log
Using the Report Manager □ Accessing the Report Manager - PROJECT REPORT MANAGER □ The Report Manager interface □ Appending tables, graphics and quotes □ Moving and organizing items using the table of content

 □ Editing existing items / adding comments □ Adding empty documents or folders and deleting existing items □ Importing documents, images or tables □ Searching and replacing text □ Exporting results to HTML, Word or RTF files. Using the Command Log □ Introduction to the command log - PROJECT COMMAND LOG □ Filtering log entries □ Adding comments to log entries □ Undoing previously performed operations
□ Repeating previously performed operations □ Exporting the log table to disk
PART 8 - Performing teamwork
Preparing projects for teamwork - PROJECT TEAMWORK Creating user accounts and setting privileges Creating new accounts Defining users access rights Forcing users to log in Creating duplicate copies of a project Sending a project by email Merging projects and assessing coding reliability
□ Merging two or more projects □ Planning teamwork for assessing coding agreement □ Adjusting colors of code marks □ Computing coding agreement - ANALYSIS CODING AGREEMENT □ The codebook and segmentation problems □ Four levels of agreement 1. Presence or absence (0 or 1) 2. Frequency (0, 1, 2, etc.) 3. Coding importance (% of words) 4. Coding overlap □ Correcting (or not) for chance agreement. □ Identifying disagreements

Day 2

December 7, 12 pm-5pm

WordStat

PART 1 - Basic Word Statistics and Text Mining

Content Analysis or Text Mining
Running WordStat from QDA Miner or Simstat
Analyzing words without dictionaries - a text mining approach
Data preparation - misspelling and control characters
Basic word frequency analysis

 □ Application of text pre-processing methods □ Exclusion list - use with care □ Lemmatization and stemming - limits and benefits □ Setting upper and lower frequency criteria □ A few additional options □ Numeric and other non-alphabetic characters □ Braces and square brackets □ Random sampling □ Using disk or memory as the working space Identifying themes using word co-occurrence analysis □ Clustering words and measuring their proximity □ Clustering documents based on the words they contains Correlation and comparison analysis based on word usage □ Performing crosstabs and computing statistics □ Comparing words among the sources (document or text variables) □ Correspondence analysis and heatmaps.
Day 3
December 8, 9am-5pm
PART 2 - Content Analysis - Principles of dictionary construction Introduction to WordStat categorization dictionary Dictionary structure and functions Opening, saving, and creating categorization dictionaries Creating manually categories of words and phrases Principles of dictionary construction - Extracting features Identification of technical terms and proper names (persons, places, products) Identification of common misspellings Extracting phrases Creating an initial dictionary - Phrases technical terms and proper nouns words Adding words manually Adding words from tables Using the drag and drop editor Organizing the dictionary (drag and drop) Applying the dictionary Setting different levels Mixing dictionaries with words
Validating the dictionary ☐ Finding words or phrases with improper meanings using the KWIC list ☐ WordStat evaluation order – how to use this at your advantage ☐ Disambiguation methods ☐ Manual disambiguation ☐ Disambiguation using phrases ☐ Disambiguation using rules ☐ Improving categorization dictionaries ☐ Creating comprehensive dictionaries using the Suggest button. ☐ Assessing coverage using the keyword retrieval feature
PART 3 – Advanced features Importing and exporting data Exportation of frequency data