

A PRACTICAL GUIDE TO ANONYMISATION TOOLS

The **anonymisation** of research data is a key step in enabling data sharing and reuse. As **data sharing** requirements are increasingly integrated into research funding and publication policies, researchers need **practical solutions** to prepare qualitative and quantitative data for dissemination while reducing re-identification risks.

A wide range of **tools** exists to support the anonymisation of qualitative and quantitative data. Please note that these tools cannot replace expert judgment. They provide valuable **support** for identifying and recoding personal data.

This brief guide provides a curated **selection** of commonly used tools in social sciences and highlights their key features to help you identify the solutions best suited to your research profile and dataset. This selection reflects the **landscape** at the time of writing. As these tools evolve rapidly, it is important to pay attention to software **versions** and **updates** when using them.

Key criteria for choosing a tool

 Data type	Is your source material qualitative or quantitative?
 Scale	What is the volume and sensitivity of the data?
 Technical skills	Do you have coding experience or require a graphical interface?
 Automation	Do you require manual control, semi-automation or fully automated detection?

Best practices for anonymising data, regardless of the tool

 Documentation	Document anonymisation decisions (e.g. maintain a data anonymisation log)
 Pilot testing	Pilot the anonymization process on a small sample and review results carefully
 Risk assessment	Assess contextual factors, sensitivity, and re-identification risks
 Secure environment	Work in a secure environment and avoid uploading non-anonymised data to cloud services

Qualitative anonymisation tools

Tools	Automat-ion	Technical skills	Licence	Key points
UK Data Service Toolkit	Manual	Low	Open Access	+ Detailed guidelines + Compliance-oriented - Still largely manual - Limited compatibility with Mac OS
QualiAnon	Semi-auto	Low	Open Source	+ Suitable for long transcripts and field notes + Flexible anonymization options + UTF-8 encoding support - Tool still under development
Atlas.ti NVivo MAXQDA	Manual	Low	Proprietary	+ Visual interface integrated into QualAnalysis + Suitable for small projects - Not open source
FAMTAFOS	Semi-auto	Middle	Open Source	+ User-friendly desktop tool + NLP-based detection + Validated with motivated intruder test - Currently limited to English and Dutch
Microsoft Presidio	High	High	Open Source	+ Strong capability to detect identifiable information (names, dates, IDs) - Limited list of predefined personal identifiers

Quantitative anonymisation tools

Tools	Automat-ion	Technical skills	Licence	Key points
sdcMicro	R or Shiny app	Medium – High	Open Source	+ Comprehensive statistical disclosure control (SDC) + Highly customizable for sensitive data + Provides quantitative risk metrics - Steeper learning curve
ARX	Graphical interface	Low	Open Source	+ Intuitive and easy to use + Strong visualization of risk and utility - No coding required - Less flexible for advanced custom anonymisation methods
AMNESIA	Graphical interface	Low	Open Source	+ Simple visual interface + Easy to use and flexible integration for developers - More limited anonymisation methods compared to sdcMicro

Resources

Additional resources on data management are available on the [FORS website](#).

For anonymisation specifically, you may refer to our webinars [Anonymisation of Qualitative Data](#) and [Anonymisation of Quantitative Data](#), which provide practical guidance for preparing data for sharing.

For more detailed methodological and strategic guidance, we also recommend consulting the following titles from the [FORS Guides](#) series:

- [Data anonymisation \(legal, ethical, and strategic considerations\)](#);
- [Qualitative data anonymisation](#);
- [Quantitative data anonymisation](#).