

SIT719 Analytics for Security and Privacy

Workshop for week 8

During this week's class, we have introduced the ARX tool. The ARX tool is an automated software tool for enhancing the data privacy. It supports many mainstream privacy preserving algorithms so that you don't need to program by yourself. The ARX tool is very similar to the WEKA tool. With some practice, you will be able to use it with confidence.

Installing ARX

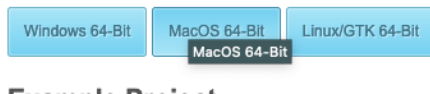
The ARX tool must be installed on your device. It is a standalone software. Visit <https://arx.deidentifier.org/downloads/> to download an appropriate version for your computer. For most people, the installer program is the easiest to use.

Anonymization Tool

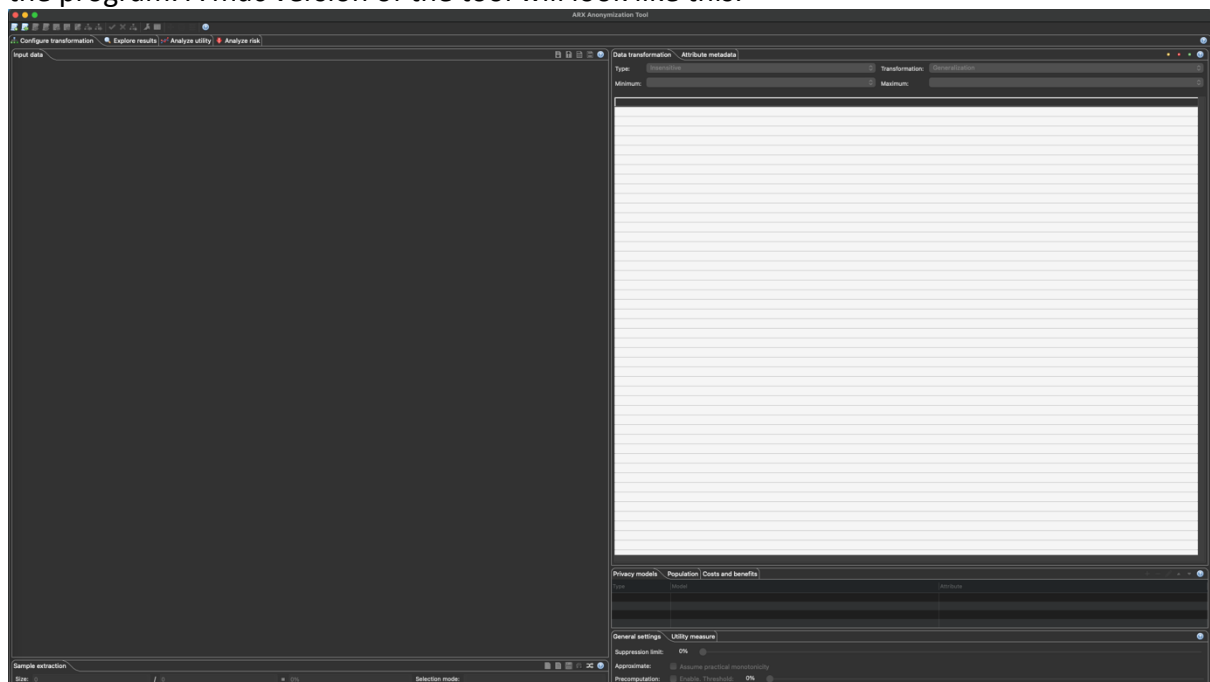
The ARX graphical anonymization tool is a platform-independent Java/SWT application. We provide self-contained binary installers, as well as executable jar files.

Installer

The installers were built with [BitRocks InstallBuilder](#).



Then, download the program and install it to your system. Once installed, you can launch the program. A mac version of the tool will look like this:

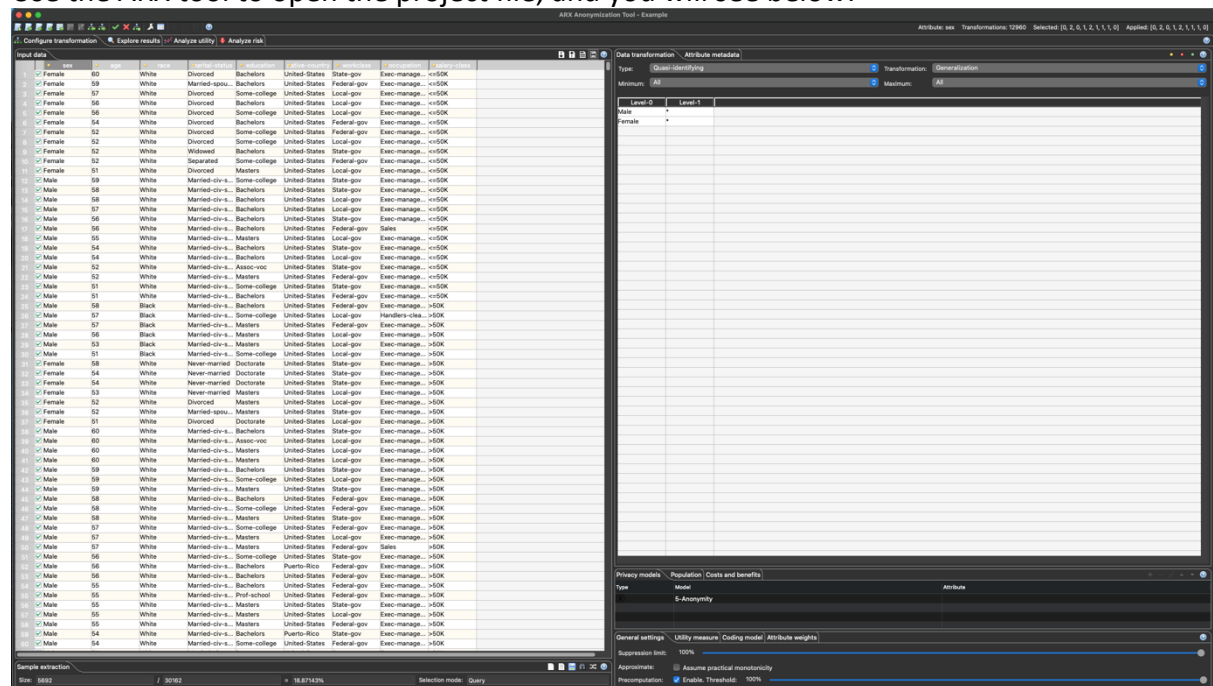


Using an Example Project

To demonstrate how to use the ARX tool, we will need to download an example project from <https://arx.deidentifier.org/?download=2036>

It is a file called “example.deid”. Make sure that you have completed the download. (Some browsers will block the site from downloading the file.)

Use the ARX tool to open the project file, and you will see below:



To use the k-anonymity to protect the dataset, just click the tick sign in the menu so that the dataset will be processed with the 5-anonymity method.

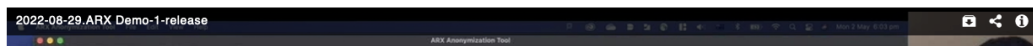
There are many other operations that you can do now, including changing the k setting, checking the data distribution, and so on. These functions are accessible in various tabs. We have a step-by-step demo in Week 8’s CloudDeakin site, named “Demo: Using the ARX tool to anonymize data”.

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8.11 Demo: Using the ARX tool to anonymize data



8.11 Demo: Using the ARX tool to anonymize data



Make sure that you watch the video demo for technical details.