www.awesomeofficialstatistics.org

A curated list of software for official statistics

Awesome official statistics software

An awesome list of open source statistical software packages useful for creating and accessing official statistics.

An item on this list is awesome because

- 1. it is free, open source, and available for download;
- 2. it is confirmed to be used in the production of official statistics by at least one institute, or
- 3. it provides access to official statistics publications.

We prefer packages that are reasonably easy to install and use, that have at least one stable version, and that are actively maintained.

81 packages # packages 90and counting... 70 -50 -30 -20-

2019

The list over time

Some list fragments

Time series and seasonal adjustment (GSBPM 5.6 | 5.7)

- Fortran X-13ARIMA-SEATS Seasonal adjustment software produced maintained and distributed by the US Census
- R package seasonal. Interface to the X13-ARIMA-SEATS program from R with a very nice shiny GUI.
- R package x12. Alternative interface to the X13-ARIMA-SEATS program from R with a focus on batch processing time
- Java application JDemetra+ The seasonal adjustment software officially recommended for the European Statistical
- R package RJDemetra R interface to JDemetra+.
- R package tempdisagg methods for temporal disaggregation and interpolation of time series.

Statistical disclosure control (GSBPM 6.4)

- Java application μ-ARGUS. Tool to create safe micro-data files. See also the casc page.
- Java application T-ARGUS. Tool to protect statistical tables. See also the casc page.
- R package sdcMicro. Disclosure control for statistical microdata.
- R package sdcTable. Disclosure control for tabulated data.
- R package easySdcTable provides an interface to the package sdcTable.
- R package sdcHierarchies allows to generate, modify and export nested hierarchies.
- R package SmallCountRounding can be used to protect frequency tables by rounding necessary inner cells so that crossclassifications to be published are safe.
- R package simPop. Simulation of synthetic populations from census/survey data considering auxiliary information.

Statistical Dissemination (GSBPM 7.2)

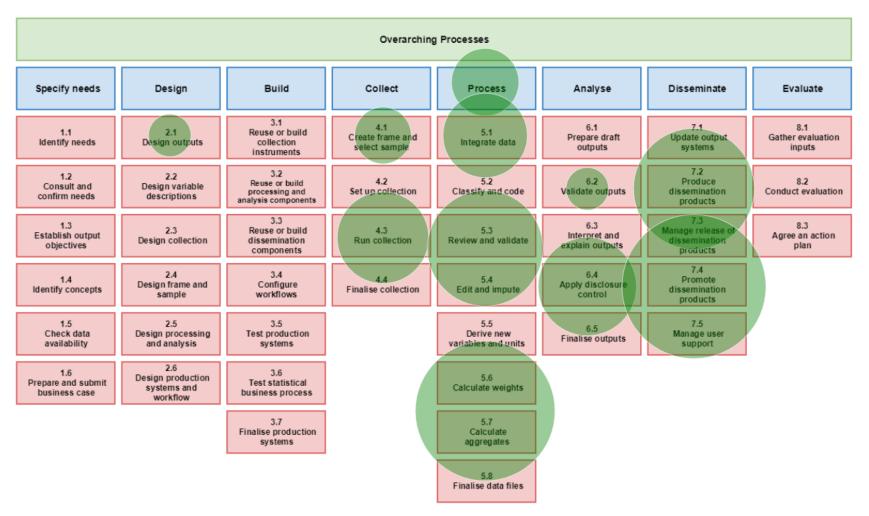
- Java application SDMX Converter. Converter between differnt versions of SDMX and formats such as C Eurostat.
- Java application SDMX-RI. Framework for disseminating data in SDMX webservices from Eurostat.
- R package rsdmx. Read SDMX into R.
- Node.js StatMiner, Experimental visualization framework from Statistics Netherlands. (github), (demo)
- JSON SDMX-JSON. JSON variant of SDMX. This is still a candidate standard.
- Node.js package JSON-Stat. Lightweight JSON based message format for statistical dissemination.

Access to official statistics (GSBPM 7.4)

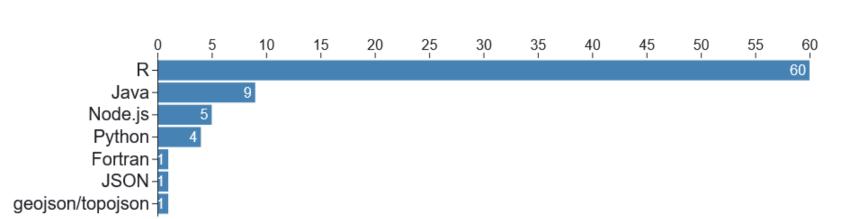
- R package rjstat. Read and write data sets in the JSON-stat format.
- R package censusapi A wrapper for the U.S. Census Bureau APIs that returns data fi
- R package nsoApi builds on other packages to access data from official statistics ar
- R package CANSIM2R. Extract CANSIM (Statistics Canada) tables and transform the Python package pyscbwrapper. Access to the open data API of the Swedish Statistic
- R package pxweb. Generic interface for the PX-Web/PC-Axis API used by many Nat
- R package PxWebApiData. Easy API access to e.g. Statistics Norway, Statistics Swed
- R package rdbnomics. Access to the DB.nomics database which provide macroecor such as INSEE, Eurostat, Wolrd bank, etc.
- R package readabs Download data from the Australian Bureau of Statistics.

Packages by GSBPM

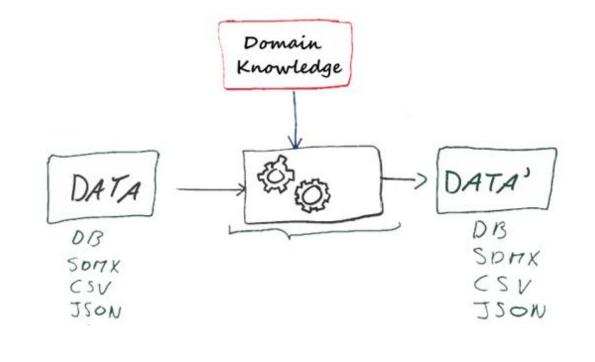
2017

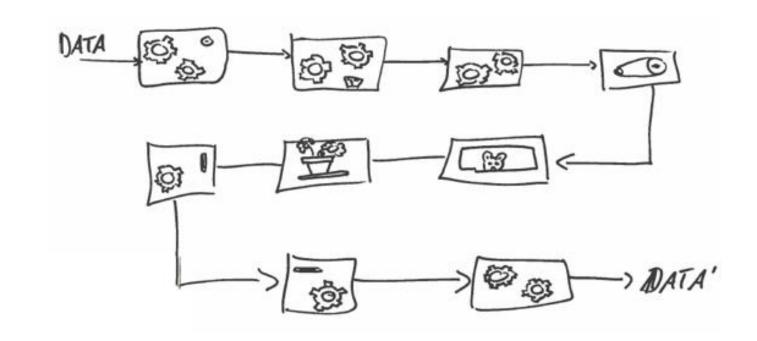


Packages by language



Core concepts





Words in package descriptions



Contributions welcome!