

# SRQM: Replication code

This document lists the replication do-files required to follow the [Statistical Reasoning and Quantitative Methods](#) (SRQM) course run at Sciences Po by François Briatte and Ivaylo Petev.

The datasets used in the do-files are stored in the `Datasets` folder and are documented in its [README](#) file. For the do-files to execute properly, the working directory must be set to the `SRQM` folder.

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## Contents

The following tables list the different files and the datasets that they load.

### Replication homework:

| Filename  | Data |
|-----------|------|
| week1.do  | Many |
| week2.do  | NHIS |
| week3.do  | WVS  |
| week4.do  | NHIS |
| week5.do  | ESS  |
| week6.do  | ESS  |
| week7.do  | QOG  |
| week8.do  | QOG  |
| week9.do  | GSS  |
| week10.do | EBM  |
| week11.do | QOG  |
| week12.do | Many |

*Note:* the first and last sessions use a mix of external datasets.

### Draft templates:

| Filename  | Data |
|-----------|------|
| draft1.do | NHIS |
| draft2.do | NHIS |
| draft3.do | ESS  |

## Syntax

Each do-file follows more or less the same code structure. The next table lists common sections and commands, as covered in class during the practice hour of each session:

| Block | Commands   |
|-------|--|
| Setup | Folders, packages, log.<br><code>ssc install</code><br><code>cd, ls, mkdir</code><br><code>browse, doedit</code> |

|           |   |
|-----------|---|
|           | do, run, log  |
| Data      | Load, subset, weight.<br><br>use, clear<br>d, codebook, ren<br>count, if, in<br>keep, drop, mi()<br>svyset  |
| Variables | Descriptions, recodes, summary.<br><br>su, fre, tab<br>replace, recode, irecode<br>la, decode, encode<br>ci, ciplot<br>hist, kdensity, gladder<br>symplot, pnorm, qnorm<br>catplot, gr box, gr dot<br>spineplot, sc<br>tabout |
| Model     | Tests, estimation, diagnosis.<br><br>ttest, prtest, tabchi<br>corr, pwcorr, mkcorr<br>reg, predict<br>rvfplot, rvpplot, vif<br>logit, margins, marginsplot<br>tsset, xtset<br>estout  |
| End       | Clear, stop, bye.<br>exit   |

In the actual do-files, some commands have been given simpler alternatives further documented in the [README](#) file of the Programs folder:

- `ssc install` commands are replaced with the less intrusive `packages_required` command
- `tabout` is demonstrated alongside the simpler `tsst` alternative to export summary statistics

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Running the code for this course usually requires that you are connected to the Internet and that you have followed the setup instructions detailed in the [README](#) file of the SRQM folder.