Sign-Congruence, External Validity, and Replication

Replication Package

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README

Overview

The code in this replication package constructs the analysis file from the original data using R. One file runs all of the code to generate the data and outputs for the one figure in the paper and the one table in the supplementary materials that rely on data and/or. The replicator should expect the code to run for less than 1 minute.

This replication package *does not* contain code for the following tables and figures because they do not rely on original analysis of data: Tables 1, E1, and E3, and Figures 1 and B1.

Data Availability and Provenance Statements

Code for data analysis is provided as part of the replication package. It is available at https://doi.org/10.24433/CO.0867235.v1.

Statement about Rights

I certify that the author of the manuscript have legitimate access to and permission to use the data used in this manuscript.

Summary of Availability

- All data **are** publicly available.

Details on each Data Source

The data come from from two papers, as follows:

1. Björkman, Martina and Jakob Svensson. 2009. "Power to the People: Evidence from a Ran- domized Field Experiment on Community-Based Monitoring in Uganda." Quarterly Journal of Economics 124(2):735–769.
2. Raffler, Pia, Daniel N. Posner and Doug Parkerson. 2022. "Can Citizen Pressure be Induced to Improve Public Service Provision?" Working paper, available at http://danielnposner. com/wp-content/uploads/2022/04/RPP-ACT-Health-220323.pdf.

Computational requirements

Software Requirements

- R 4.2.1
  - dplyr 1.1.4

- ggplot 3.5.0
- plyr 1.8.9
- readxl 1.4.3
- xtable 1.8.4
- tidyr 1.3.11

Memory, Runtime, Storage Requirements

Summary Approximate time needed to reproduce the analyses on a standard 2022 desktop machine is <10 minutes.

Approximate storage space needed is <25 MB.

Details The code was last run on a **10-core Apple M1 Pro Laptop with MacOS version 14.2.1 with 350GB of free space**.

Description of programs/code

- Programs in `code/01_code.R` produce Figure 2 and Table A2.

Instructions to Replicators

- In CodeOcean Capsule, the `Reproducible Run` button will run all programs to generate all results. To run a subset of the programs, remove relevant `Rscript` commands from the `code/.Rproj.user/run` file.
- If you have downloaded the code and data to run in R (outside CodeOcean), adjust file path to the location of the replication files.

List of figures, tables and programs

The provided code reproduces selected tables and figures in the paper, as explained below.

Figure/Table #	Program	Line Number	Output file
Table 1	n.a. (no data)		
Figure 1	n.a. (no data)		
Figure 2	`01_code.R`	39	Figure_2.pdf
Table E1	n.a. (reports raw data only)		
Table E2	`01_code.R`	79	Table_E2.tex
Table E3	n.a. (no data)		
Figure B1	n.a. (no data)		

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