Replication files for "None Of The Above: Protest Voting in the World's Largest Democracy," by G. Ujhelyi, S. Chatterjee and A. Szabó
Journal of the European Economic Association

The analysis was done using Stata 14.2 and Matlab R2017b.

Main folder

reducedform.dta: Main datafile for reduced-form estimates.

jeea regressions.do: Run on *jeea reducedform.dta* to reproduce all summary statistics and
reduced-form estimates in the paper and the appendix, except as noted below.
The file calls in the following data files for specific exercises:
list_for_ri 5.dta, **10.dta*, **20.dta*, **all.dta* used for randomization inference
sveep.dta and *turnout2009.dta* used for the analysis of SVEEP
lastcandidate.dta used for the analysis of ballot placement

historical.dta and *jeea historial.do*: Analysis of trends (Appendix C.2.1 and Figure 2 in the text)

jeea setup for blp.do: Sets up the data for the BLP estimation

Matlab **folder**

1. Files to run BLP estimation. These are modified versions of Aviv Nevo's publicly available
code. Note the following modifications:
- summing utilities by market using accumaray() instead of cumsum() and diff() to avoid a
potential scaling issue (see notes in *ind_sh.m*)
- weight observations by "market" size
- optimization using patternsearch
- two-step GMM
- cluster-robust standard errors

est_main.m: Main estimation file. Uses the following files:
formatlab.csv, formatlab2.csv, formatlab dummies.csv, varnames.csv: these contain the data,
created by *setup for blp.do*
demogr.mat, v.mat: demographics of simulated voters, draws for random coefficients
demogr_avg.mat: average constituency demographics
gmmobj_weighted.m: the GMM objective function
uses *meanval.m, ind_sh.m, mktsh.m, mufunc.m*
jacob.m: used to compute standard errors

2. Estimation results from the main specification discussed in the text.

matlab_second.mat and *results_second.mat* (these are produced by *est_main.m*). These files can be used to run the counterfactuals without having to re-estimate the model.

Counterfactuals **folder**

Contains files for the counterfactual analysis.

setup_counterfactuals.m: Computes counterfactual outcomes and sets up files for analysis in Stata

jeea counterfactual nonota.do: Analysis of the no-NOTA counterfactual (Sections 8.1, 8.2 in the text)
Uses *formatlab.dta* (created in *jeea setup for blp.do*, identical to *formatlab.csv*) and *partyid_short.dta* (which contains the party names corresponding to the party id's)

jeea counterfactual nonota heterogeneity.do: Analysis of heterogeneity in the no-NOTA counterfactual (Section 8.1.3 in the text)

jeea counterfactual compulsory.do: Analysis of compulsory voting with NOTA

jeea counterfactual compulsory nonota.do: Analysis of compulsory voting without NOTA