

Processing Figures and Tables

The programs in this folder create the figures and tables in the article. They need to be run before compiling the LaTeX. No post-processing should be needed.

Data sources

- `data/jira`:
 - `confidential`: Internal data from the JIRA system used by the AEA Data Editor. Not provided.
 - `anon`: Anonymized subset of the internal data used to generate all figures and tables. Download data from Vilhuber(2020c) and save into this folder. `04_jira_anonymize.R` was used to anonymize these data.
- `data/rct`
 - `raw`: Raw data as downloaded from the internal systems at the AEA RCT Registry by James Turitto. Since providing this data, the AEA RCT Registry now provides snapshots of the data at <https://dataverse.harvard.edu/dataverse/aearegistry>. The data here would be similar to AEA RCT Registry(2020), though that has not been verified.
 - `generated`: Simplified data, based on the raw data. Provided as part of this archive. Created by `01_prepare-rct.R`.
- `externals/aea-supplement-migration/`: Data and Figures from Vilhuber (2020b) and <https://github.com/AEADDataEditor/aea-supplement-migration>.
 - Download the relevant release (corrected version: v20200515, URL: <https://github.com/AEADDataEditor/aea-supplement-migration/archive/v20200515.zip>), unpack into `externals/`
 - `programs/`: Source for figures copied to and provided as part of the `images` directory in this repository. Copied using `03_copy_migration_figures.R`
 - `data/generated/`: Source for tables, copied using `06_copy_migration_tables.R` and provided as part of this repository.
- `tables`: This directory contains data copied using `06_copy_migration_tables.R` and serves as an input to processing in `07_print_migration_tables.R`

Pre-requisites

- R (last run with 3.6.1)
 - Package `here` is required
 - all other packages are listed at the top of each R program, and will be installed automatically
- Bash shell (optional)
 - used to run all R scripts in sequence

Processing

- run `run_all.sh` from a shell to process all files in numerical order
- Note that in the absence of the raw (confidential) data files used in `01_prepare-rct.R` and `04_jira_anonymize.R`, those step will be skipped. This is normal.

Outputs

Output folders are listed in `config.R`. By default,

- figures are in the `(BASEPATH)/images` folder
- tables (and CSV files) are in the `(BASEPATH)/tables` folder

Mapping tables and figures to article

Name of file	Figure/ Table in article	Program to create
Screenshot_aer_data_citation.png	Figure 1	Manually created
figure_migration_files.png	Figure 2	<code>03_copy_migration_figures.R</code>
figure_migration_doi_by_year.png	Figure 3	<code>03_copy_migration_figures.R</code>
figure_migration_software_pkgs.png	Figure 4	<code>03_copy_migration_figures.R</code>
figure_migration_software_years_pct.png	Figure 5	<code>03_copy_migration_figures.R</code>
n_assessments_journal_plot.png	Figure 6	<code>05_jira_stats_graphs.R</code>
n_rounds_plot.png	Figure 7	<code>05_jira_stats_graphs.R</code>
revision_round_length_hist.png	Figure 8	<code>05_jira_stats_graphs.R</code>
total_length_hist.png	Figure 9	<code>05_jira_stats_graphs.R</code>
author_response_hist.png	Figure 10	<code>05_jira_stats_graphs.R</code>
figure_rctgrowth.png	Figure 11	<code>02_analysis-rct.R</code>
figure_preregistrations.png	Figure 12	<code>02_analysis-rct.R</code>
figure_prealanalysisplans.png	Figure 13	<code>02_analysis-rct.R</code>
table_software.tex	Table 1	<code>07_print_migration_tables.R</code>

Changelog

After publication, Alan Riley (Stata) pointed out a discrepancy between Table 1 and Figure 5, which should be depicting (on average) the same data. This was corrected in the code associated with the AEA Repository migration (see <https://github.com/AEADDataEditor/aea-supplement-migration/commit/530f1e9ad8059e68815b5836db33155c990154b0> for the commit implementing the code change).

References

AEA RCT Registry. 2020. "Registrations in the AEA RCT Registry (2013-04 to 2020-01)." Harvard Dataverse UNF:6:kWiM5wm1x75KKsxWAAqr4g==, <https://doi.org/10.7910/DVN/DFMLIU>.

Vilhuber, Lars. 2020b. "Data and code for:Data files for AEA Repository migration" American Economic Association [publisher], Inter-university Consortium for Political and Social Research [distributor]. <http://doi.org/10.3886/E117873V1>

Vilhuber, Lars. 2020c. "Process data for the AEA Pre-publication Verification Service." American Economic Association [publisher], <https://doi.org/10.3886/E117876V1>.