This directory contains data and code that replicates the tables and figures for the following paper:

**Title:** My Paper

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# Directory Structure

The original, raw data are stored in CSV format in the folder: **data/raw**

All results (LaTeX tables and PDF figures) are outputted into the folder: **results**

All code is stored in the folder: **scripts**

# Data Availability Statement

The automobile data used to support the findings of this study have been deposited in a Github[[1]](#footnote-1) repository (<https://github.com/reifjulian/my-project/tree/master/MyProject/analysis>).

Datafile: **data/raw/auto.raw**

# Dataset List

|  |  |  |  |
| --- | --- | --- | --- |
| Data file | Source | Notes | Provided |
| data/raw/auto.csv | Stata |  | Yes |
| data/proc/auto.dta | Stata | Cleaned version of auto.csv, serves as input for the main analysis | Yes |

# Software Requirements

Stata version 15 or higher

* Add-on packages are included in **scripts/libraries/stata** and do not need to be installed by user

R version 3.6.0 or higher (available for free from: [https://cloud.r-project.org](https://cloud.r-project.org/))

* Two add-on packages are required: **tidyverse**, **estimatr**
* These packages can be installed three different ways:
  + Manually by typing, e.g., **install.packages(“tidyverse”)** at the R prompt
  + Automatically by opening R and running **scripts/programs/\_install\_R\_packages.R**
  + Automatically by uncommenting line 52 of **scripts/0\_run\_all.do**
* Note: **scripts/programs/\_confirm\_version.R** checks that these add-ons have been installed and are up to date
* Note: if you don’t wish to install R, the R portion of the analysis can be disabled (see **Instructions** below)

# Descriptions of Scripts

**0\_run\_all.do** is a master script that sets up the environment, creates output folders, and then calls other scripts.

**1\_process\_raw\_data.do** imports the raw automobile data and saves it in Stat format.

**2\_clean\_data.do** processes the automobile data and prepares it for analysis.

**3\_regressions.do** estimates regression models in Stata, and calls an R script that estimates additional regression models in R. The raw regression results are saved in **results/intermediate**.

**4\_make\_tables\_figures.do**  creates figures and tables, saving them to **results/figures** and **results/tables**.

# Memory and Runtime Requirements

This analysis requires minimal memory and processing resources. The analysis was last run on a Windows 10 Desktop with 32 gigabytes of RAM and an i7-8700 CPU 3.20 GHz processor. The runtime was less than one minute.

# Instructions

Executing the Stata script **scripts/0\_run\_all.do** will run the analysis and generate all tables and figures. Before running this script, you must make two edits to lines 20 and 21 of **0\_run\_all.do**:

1. Line 20: Define a global macro, **MyProject**, that points to the directory containing this README file
2. Line 21: Define a global macro, **RSCRIPT\_PATH**, that points to your R executable

For example, those two lines should look something like the following:

global MyProject "C:/Users/jdoe/MyProject/analysis"

global RSCRIPT\_PATH "C:/Program Files/R/R-3.6.0/bin/x64/Rscript.exe"

The R portion of the analysis requires the add-on packages listed in the **Software Requirements** section above. Follow the instructions outlined in that section to install those packages.

If R is not available on your system, you can disable the R portion of the analysis by setting the global macro **DisableR** equal to 1 in line 24 of **0\_run\_all.do**:

global DisableR = 1

# Lists of Tables and Figures

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Figure/Table # | Source script | Line Number | Output File | Notes |
| Figure 1 | 4\_make\_tables\_figures.do | 21 | price\_histogram.pdf |  |
| Table 1 | 4\_make\_tables\_figures.do | 64 | my\_summary\_stats.tex |  |
| Table 2 | 4\_make\_tables\_figures.do | 105 | my\_regressions.tex |  |
| Table 3 | 4\_make\_tables\_figures.do | 163 | my\_regressions\_with\_r.tex |  |

# Help

Contact email: [jreif@illinois.edu](mailto:jreif@illinois.edu)

Web guide: <https://reifjulian.github.io/guide/>

1. Github is not a proper data archive. For AEA publications, you can deposit your materials at the AEA Data and Code Archive. [↑](#footnote-ref-1)