Readme file to "**The Impact of Retail E-Commerce on Relative Prices and Consumer Welfare**" by Yoon Jo, Misaki Matsumura, and David Weinstein

Overview:
The replication materials comprise this README file and three folders:
1. "Code": contains the STATA code required to reproduce all results
2. "Data": contains datasets
3. "Output": stores tables and figures

Software:
The replication requires the use of STATA. This code was run with STATA/MP 15.

Description of programs:
The do-file "0_run.do" executes all the other do-files to generate all graphs and tables of the paper. All tables and figures are stored in the "Output" folder except the results using item-level Rakuten sales data (Table A.5 - A.8 and Figure A.2)

Proprietary data:
Rakuten sales data are proprietary. To access the Rakuten sales data, contact Umeda, Takashi <takashi.umeda@rakuten.com>

Instructions to Replicators:
The Replicator needs to run the "0_run.do" file to produce the graphs and tables in the paper. The replicator should specify the location of the replication folder, replacing line 21 with the desired working path.

List of code files:
0_run.do /* Calls all other do file */
1_pricereg.do /* Contains programs for the results: Table 1-9, A.1-A.4, and A.9-A.10 and Figure 1-5, A.1*/
2_precereg_PW.do /* Appendix A.3 Parsely and Wei (1996) Specifications */
3_pricereg_by_prefecture /*Appendix A.6 Prefecture-level analysis */

Data files:
Please find the explanation of each variable included in STATA DTA file.
1. "cityid.xls": contains the crosswalk between city and prefecture. Manually made by authors.
2. "est_ready_by_prefecture.dta": contains data for the prefecture level regression
3. "Kaisetsu.xlsx": RPS-FIES Concordance. The tradable goods indicator is manually written by authors.
4. "METI_numbers.xlsx": contains time-series data of BtoC-EC Market size and share. It contains the links to data sources.
5. "NSFIE_1999.dta": regional National Survey of Family Income and Expenditure (NSFIE) in 1999.
6. "NSFIE_2014.dta": regional NSFIE in 2014.
7. "NSFIE_totalhh_national.dta": national-level NSFIE
8. "pf_controls.dta": contains prefectural-level control variables: the population, the average

age, education, and income per person.
9. "RakutenProject.dta": contains price-level data from the Retail Price Survey.
10. "zni2015a.xls": contains item-level annual Japanese CPI

Data source:

Data	**Source**
Family Income and Expenditure Survey (FIES)	Japan Statistical Bureau (JSB) (link)
Retail Price Survey (RPS)	1991-2000 large cities: JSB (link)
	1999-2016: JSB (link)
	1991-1998 medium and small cities JSB (data entered from pdf)
National Survey of Family Income and Expenditure (NSFIE)	1999: JSB (link1: Table 3&7) (link2: Table 2 under "Region")
	2004: JSB (link: Table 11)
	2009: JSB (link: Table 11)
	2014: JSB (link1: Table 152) (link2: Table 22 under "Region")
Kaisetsu.xlsx	JSB (link: Table 4-5 on p120) and authors' edition
Population in 2010	Census (link: Table 9)
Population in 2014	Census (link: Table 4)
Age in 2015	Census (link: Table 16)
Education level in 2010	Census (link: Table 24)
Income per capita in 2014	Census (link: Table C)
E-Commerce Market Survey in 2017	Japan's Ministry of Economy Trade and Industry (METI) (link)
Annual Japanese CPI	JSB (link: Table 1.3)