



Course information

Course website: <http://www.ernestoamaral.com/stata2018a.html>

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Course description

This course is an introduction to Stata with the General Social Survey (GSS), covering topics related to (1) descriptive statistics; (2) inferential statistics; (3) bivariate measures of association; and (4) multivariate techniques.

The Stata codes are written following the structure of this textbook: Healey, Joseph F. 2015. **Statistics: A Tool for Social Research**. Stamford: Cengage Learning. 10th edition. The files containing Stata codes are the ones listed below.

Lecture	Topic	Stata code
01	Introduction	Stata01.txt
02	Basic descriptive statistics	Stata02.txt
03	Measures of central tendency	Stata03.txt
04	Measures of dispersion	Stata04.txt
05	The normal curve	Stata05.txt
Extra	Append different years	Stata_append.txt
06–07	Introduction to inferential statistics & Estimation procedures	Stata06-07.txt
08	Hypothesis testing I: The one-sample case	Stata08.txt
09	Hypothesis testing II: The two-sample case	Stata09.txt
10	Hypothesis testing III: The analysis of variance	Stata10.txt
11	Hypothesis testing IV: Chi square	Stata11.txt
12	Bivariate association for nominal- and ordinal-level variables	Stata12.txt
13	Association between variables measured at the interval-ratio level	Stata13.txt
14	Elaborating bivariate tables	Stata14.txt
15	Partial correlation, multiple regression, and correlation	Stata15.txt

General Social Survey (GSS)

GSS official website

<http://gss.norc.org>

GSS Data Explorer

<https://gssdataexplorer.norc.org>

GSS resources for this course

<http://www.ernestoamaral.com/docs/Stata2018a/course.zip>

Uncompress the course.zip file in your computer. This procedure varies across computers. Basically, it will create a folder called “course” with four sub-folders: data, docs, output, progs. These folders will contain the following material:

data	General Social Survey microdata.
docs	Codebook, information on income variable, questionnaires.
progs	This folder will be empty. You will save Stata do-files and log-files throughout the course.
output	This folder will be empty. You will save tables and figures throughout the course.

Save the “course” folder in a specific location in your computer, following these suggestions for Windows and Macintosh:

– Windows

Save the uncompressed “course” folder under the C:\ drive.

You can see the C:\ drive under “Computer” or “My PC” in Windows Explorer.

– Macintosh

Save the uncompressed “course” folder under Macintosh HD (Hard Drive).

To show Macintosh HD on your Finder sidebar, open Finder, click on “Finder” menu, click on “Preferences...”, click on the “Sidebar” tab, and select “Hard disks.”

Stata resources

Instructions for Accessing Stata Through the Virtual Open Access Lab (VOAL)

Texas A&M University

http://www.ernestoamaral.com/docs/Stata2018a/Stata_VOAL_instructions.pdf

Stata: Data Analysis and Statistical Software

<http://www.stata.com/links>

Institute for Digital Research and Education (IDRE)

University of California, Los Angeles (UCLA)

<https://stats.idre.ucla.edu/stata>

Carolina Population Center (CPC)

The University of North Carolina at Chapel Hill (UNC)

http://www.cpc.unc.edu/research/tools/data_analysis/statatutorial

Generalized Linear Latent And Mixed Models (GLLAMM)

Stata Programs for estimating, predicting, simulating

<http://www.gllamm.org>

Stata extra modules

<http://www.ernestoamaral.com/docs/Stata2018a/Modules.zip>

Main Stata Windows

Review: commands that were typed since the software was open. It is possible to copy these commands to the do-file editor window with a right click.

Results: results of analysis (log window).

Variables: list of database variables.

Command: quick way to write commands.

Properties: details of variables.

Do-file Editor: write commands.

The screenshot displays the Stata/SE 15.1 interface with the following windows:

- Review:** Shows the command history. The first command is `use "/c...`.
- Results:** Displays the Stata startup screen, including the Stata logo, version 15.1, and copyright information (1985-2017 StataCorp LLC). It also shows the license type (Unlimited-user Stata network license) and the location of the data file (`use "/course/data/GSS2016.dta"`).
- Variables:** Lists the variables in the dataset. The first few variables are:

Name	Label
mar1	marital stat...
mar2	marital stat...
mar3	marital stat...
mar4	marital stat...
mar5	marital stat...
mar6	marital stat...
mar7	marital stat...
mar8	marital stat...
mar9	marital stat...
mar10	marital stat...
mar11	marital stat...
mar12	marital stat...
mar13	marital stat...
mar14	marital stat...
abany	abortion if...
abdefect	strong chan...
- Command:** Shows the command `use "/course/data/GSS2016.dta"`.
- Do-file Editor:** Shows the Stata do-file `Stata01.do`. The file contains introductory text and instructions for using the GSS data, including a link to the course resources and instructions for saving the data file.