

Using Stata Effectively: Data Management, Analysis, and Graphics Fundamentals

Pedagogical objectives:

Become familiar with three main components of Stata: data management, data analysis, and data visualization. Upon completion of the course, you will be able to use Stata efficiently for data management, basic analyses and graphics. You will be able to create reproducible analysis, for better collaborative works and simplified follow-up analyses.

Level: Beginner

Prerequisites:

Basic computer skills

The course is taught using Stata. It is appropriate for those who already own Stata and for those who are considering purchasing or upgrading. There is no requirement that the user already own a Stata license.

Target audience:

This course is intended for both new Stata users and those who wish to learn techniques for effective daily use of Stata.

Duration: 14 h

Training modalities

- Short course, web-based
- Can be held on premises / on-site too.

FRANCE

72, rue des Archives
75003 PARIS
formation@ritme.com
+33 (0)1 42 46 00 42

BELGIQUE

40, rue des Anciens Étangs
1190 BRUXELLES
info@ritme-be.com
+32 (0)2 203 90 48

SUISSE

Voie du Chariot 3
1003 LAUSANNE
info@ritme.ch
+41 (0)21 711 15 20

Program

Fundamentals of Using Stata (1h30 - Day1)

- Keeping organized
- Knowing how Stata treats data
- Using dialog boxes efficiently
- Using the Command window
- Saving time and effort while working
- A sample Stata Session
- Getting Help

Basic Data Management in Stata (3h30 - Day1 and Day2)

- Reading Data in Stata
 - Using and Saving Stata data files
 - Reading in datasets of various standard formats, such as those from spreadsheets or databases
- Labeling data, variables and values and setting up encoded variables
- Creating and Recoding variables in an efficient fashion
- Generating statistics within groups, and working across variables

Intermediate Data Management in Stata (2h - Day2)

- Combining datasets by adding observations and by adding variables
- Reshaping data from wide to long
- Reshaping data from long to wide
- Collapsing data across observations

Workflow (1h30 - Day3)

- Using menus and the Command window to work quickly
- Setting up Stata for your profile
- Keeping complete records of what is done inside Stata: saving dofile
- Creating reproducible analyses, which are completely documented
- Finding, installing, and removing community-contributed extensions to Stata
- Customizing how Stata starts up and where it looks for files

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Analysis (3h30 - Day3 and Day 4)

- Using basic statistical commands
- Reusing results of Stata commands
- Using common postestimation commands
- Working with interactions and factor variables

Graphics (2h - Day 4)

- Introduction to graphics
- Overview of graph two-way plots
- Building up complex graphs
- Using the Graph Editor

Educational and technical material and resources:

Web-based training courses are four-day courses that run for three and a half hour each day. You will be provided with a temporary Stata license to install on your computer, an electronic copy of the course notes, and all the course datasets so that you can easily follow along.

Web-based training offers the same great content as our classroom training. It is designed to be interactive: ask the instructor questions and work examples using Stata. You can click a button to raise your hand and then speak directly with the instructor through your microphone. Or you type your questions and comments into a chat window.

Monitoring and Assessment:

Practice and Exercises. Immediate training assessment.

Expected results & skills at the end of the training:

The participant will learn the basic functions and navigation within STATA.

The participant will learn how to create and manipulate graphs and figures in STATA.

The participant will learn how to use STATA effectively for manipulating and analyzing data.

The participant will learn how to keep records of your work and create reproducible analyses.

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