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intro — Introduction to the Mata manual

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Description

Mata is a matrix programming language that can be used by those who want to perform matrix calculations interactively and by those who want to add new features to Stata.

This entry describes this manual and what has changed since Stata 12.

Remarks and examples

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This manual is divided into six sections. Each section is organized alphabetically, but there is an introduction in front that will help you get around.

If you are new to Mata, here is a helpful reading list. Start by reading

[M-1] first	Introduction and first session
[M-1] interactive	Using Mata interactively
[M-1] how	How Mata works

You may find other things in section [M-1] that interest you. For a table of contents, see

[M-1] intro	Introduction and advice	
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Whenever you see a term that you are unfamiliar with, see

[M-6] Glossary	Mata glossary of common terms	
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intro — Introduction to the Mata manual

Now that you know the basics, if you are interested, you can look deeper into Mata's programming features:

[M-2] syntax Mata language grammar and syntax

[M-2] **syntax** is pretty dense reading, but it summarizes nearly everything. The other entries in [M-2] repeat what is said there but with more explanation; see

[M-2] intro Language definition

because other entries in [M-2] will interest you. If you are interested in object-oriented programming, be sure to see [M-2] class.

Along the way, you will eventually be guided to sections [M-4] and [M-5]. [M-5] documents Mata's functions; the alphabetical order makes it easy to find a function if you know its name but makes learning what functions there are hopeless. That is the purpose of [M-4]—to present the functions in logical order. See

Mathematical

[M-4] **matrix** Matrix functions

[M-4] **solvers** Matrix solvers and inverters

[M-4] **scalar** Scalar functions

[M-4] **statistical** Statistical functions

[M-4] **mathematical** Other important functions

Utility and manipulation

[M-4] **standard** Functions to create standard matrices

[M-4] **utility** Matrix utility functions

[M-4] **manipulation** Matrix manipulation functions

Stata interface

[M-4] **stata** Stata interface functions

String, I/O, and programming

[M-4] **string** String manipulation functions

[M-4] **io** I/O functions

[M-4] **programming** Programming functions

What's new

For a complete list of all the new features in Stata 13, see [U] 1.3 What's new.

Also see

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[M-1] first — Introduction and first session
[M-6] Glossary
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