

## Intro — Commands for controlling Mata

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## Contents

Command for invoking Mata from Stata:

[M-3] Entry	Command	Description
<a href="#">mata</a>	. mata	invoke Mata

Once you are running Mata, you can use the following commands from the colon prompt:

[M-3] Entry	Command	Description
<a href="#">mata help</a>	: mata help	execute help command
<a href="#">mata clear</a>	: mata clear	clear Mata
<a href="#">mata describe</a>	: mata describe	describe contents of Mata's memory
<a href="#">mata memory</a>	: mata memory	display memory-usage report
<a href="#">mata rename</a>	: mata rename	rename matrix or function
<a href="#">mata drop</a>	: mata drop	remove from memory matrix or function
<a href="#">mata mosave</a>	: mata mosave	create object file
<a href="#">mata mlib</a>	: mata mlib	create function library
<a href="#">lmbuild</a>	. lmbuild	easily create function library
<a href="#">mata matsave</a>	: mata matsave	save matrices
<a href="#">mata matsave</a>	: mata matuse	restore matrices
<a href="#">mata matsave</a>	: mata matdescribe	describe contents of matrix file
<a href="#">mata which</a>	: mata which	identify function
<a href="#">mata set</a>	: mata query	display values of settable parameters
<a href="#">mata set</a>	: mata set	set parameters
<a href="#">mata stata</a>	: mata stata	execute Stata command
<a href="#">end</a>	: end	exit Mata and return to Stata

## Description

When you type something at the Mata prompt, it is assumed to be a Mata statement—something that can be compiled and executed—such as

```
: 2+3  
5
```

The `mata` command, however, is different. When what you type is prefixed by the word `mata`, think of yourself as standing outside of Mata and giving an instruction that affects the Mata environment and the way Mata works. For instance, typing

```
: mata clear
```

says that Mata is to be cleared. Typing

```
: mata set matastrict on
```

says that Mata is to require that programs explicitly declare their arguments and their working variables; see [M-2] **Declarations**.

## Remarks and examples

[stata.com](http://stata.com)

The `mata` command cannot be used inside functions. It would make no sense to code

```
function foo(...)  
{  
    ...  
    mata query  
    ...  
}
```

because `mata query` is something that can be typed only at the Mata colon prompt:

```
: mata query  
(output omitted)
```

See [M-1] **How**.

## Also see

[M-0] **Intro** — Introduction to the Mata manual