

**Stata** — Stata interface functions

[Contents](#)   
 [Description](#)   
 [Remarks and examples](#)   
 [Reference](#)   
 [Also see](#)

## Contents

[M-5] Manual entry	Function	Purpose
Access to data		
<a href="#">st_nvar()</a>	<code>st_nvar()</code>	number of variables
	<code>st_nobs()</code>	number of observations
<a href="#">st_data()</a>	<code>st_data()</code>	load numeric data from Stata into matrix
	<code>st_sdata()</code>	load string data from Stata into matrix
<a href="#">st_store()</a>	<code>st_store()</code>	store numeric data in Stata dataset
	<code>st_sstore()</code>	store string data in Stata dataset
<a href="#">st_view()</a>	<code>st_view()</code>	make view onto Stata dataset
	<code>st_sview()</code>	same; string variables
<a href="#">st_subview()</a>	<code>st_subview()</code>	make view from view
<a href="#">st_viewvars()</a>	<code>st_viewvars()</code>	identify variables and observations
	<code>st_viewobs()</code>	corresponding to view
Variable names & indices		
<a href="#">st_varindex()</a>	<code>st_varindex()</code>	variable indices from variable names
<a href="#">st_varname()</a>	<code>st_varname()</code>	variable names from variable indices

### Variable characteristics

---

<b>st_varrename()</b>	st_varrename()	rename Stata variable
<b>st_vartype()</b>	st_vartype()	storage type of Stata variable
	st_isnumvar()	whether variable is numeric
	st_isstrvar()	whether variable is string
<b>st_varformat()</b>	st_varformat()	obtain/set format of Stata variable
	st_varlabel()	obtain/set variable label
	st_varvalue label()	obtain/set value label
<b>st_vlexists()</b>	st_vlexists()	whether value label exists
	st_vldrop()	drop value
	st_vlmap()	map values
	st_vlsearch()	map text
	st_vlload()	load value label
	st_vlmodify()	create or modify value label

### Temporary variables & time-series operators

---

<b>st_tempname()</b>	st_tempname()	temporary variable name
	st_tempfilename()	temporary filename
<b>st_tsrevar()</b>	st_tsrevar()	create time-series op.varname
	_st_tsrevar()	same

### Adding & removing variables & observations

---

<b>st_addobs()</b>	st_addobs()	add observations to Stata dataset
<b>st_addvar()</b>	st_addvar()	add variable to Stata dataset
<b>st_dropvar()</b>	st_dropvar()	drop variables
	st_dropobsin()	drop specified observations
	st_dropobsif()	drop selected observations
	st_keepvar()	keep variables
	st_keepobsin()	keep specified observations
<b>st_keepobsif()</b>	st_keepobsif()	keep selected observations
	st_keepobsif()	keep selected observations
<b>st_updata()</b>	st_updata()	query/set data-have-changed flag

---

 Executing Stata commands
 

---

<b>stata()</b>	stata()	execute Stata command
<b>st_macroexpand()</b>	st_macroexpand()	expand Stata macros

---

 Accessing e(), r(), s(), macros, matrices, etc.
 

---

<b>st_global()</b>	st_global()	obtain/set Stata global
	st_global_hcat()	obtain hidden/historical status
<b>st_local()</b>	st_local()	obtain/set local Stata macro
<b>st_numscalar()</b>	st_numscalar()	obtain/set Stata numeric scalar
	st_numscalar_hcat()	obtain hidden/historical status
	st_strscalar()	obtain/set Stata string scalar
<b>st_matrix()</b>	st_matrix()	obtain/set Stata matrix
	st_matrix_hcat()	obtain hidden/historical status
	st_matrixrowstripe()	obtain/set row labels
	st_matrixcolstripe()	obtain/set column labels
	st_replacematrix()	replace existing Stata matrix
<b>st_dir()</b>	st_dir()	obtain list of Stata objects
<b>st_rclear()</b>	st_rclear()	clear r()
	st_ecclear()	clear e()
	st_scclear()	clear s()

---

 Parsing & verification
 

---

<b>st_isname()</b>	st_isname()	whether valid Stata name
	st_islmmname()	whether valid local macro name
<b>st_isfmt()</b>	st_isfmt()	whether valid <i>%fmt</i>
	st_isnumfmt()	whether valid numeric <i>%fmt</i>
	st_isstrfmt()	whether valid string <i>%fmt</i>
<b>abbrev()</b>	abbrev()	abbreviate strings
<b>strtoname()</b>	strtoname()	translate strings to Stata names

## Data frames

---

<code>st_frame*()</code>	<code>st_framecurrent()</code>	return or change current frame
	<code>st_framecreate()</code>	make new frame
	<code>st_framedrop()</code>	drop (eliminate) existing frame
	<code>st_framedropabc()</code>	drop all but current frame
	<code>st_framereaname()</code>	rename frame
	<code>st_framecopy()</code>	copy contents of one frame to another
	<code>st_framerreset()</code>	reset to empty default frame
	<code>st_frameexists()</code>	whether frame name already exists
	<code>st_framedir()</code>	obtain vector of existing frame names

---

## Description

The above functions interface with Stata.

## Remarks and examples

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

The following manual entries have to do with getting data from or putting data into Stata:

[M-5] <code>st_data()</code>	Load copy of current Stata dataset
[M-5] <code>st_view()</code>	Make matrix that is a view onto current Stata dataset
[M-5] <code>st_store()</code>	Modify values stored in current Stata dataset
[M-5] <code>st_nvar()</code>	Numbers of variables and observations

In some cases, you may find yourself needing to translate variable names into variable indices and vice versa:

[M-5] <code>st_varname()</code>	Obtain variable names from variable indices
[M-5] <code>st_varindex()</code>	Obtain variable indices from variable names
[M-5] <code>st_tsrevar()</code>	Create time-series op.varname variables

The other functions mostly have to do with getting and putting Stata's scalars, matrices, and returned results:

[M-5] <code>st_local()</code>	Obtain strings from and put strings into Stata
[M-5] <code>st_global()</code>	Obtain strings from and put strings into global macros
[M-5] <code>st_numscalar()</code>	Obtain values from and put values into Stata scalars
[M-5] <code>st_matrix()</code>	Obtain and put Stata matrices

The `stata()` function, documented in

[M-5] [stata\(\)](#)                      Execute Stata command

allows you to cause Stata to execute a command that you construct in a string.

## Reference

Gould, W. W. 2008. [Mata Matters: Macros](#). *Stata Journal* 8: 401–412.

## Also see

[M-4] [Intro](#) — Categorical guide to Mata functions