

Stata — Stata interface functions

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

Variable characteristics

st_varrename()	st_varrename()	rename Stata variable
st_vartype()	st_vartype() st_isnumvar() st_isstrvar()	storage type of Stata variable whether variable is numeric whether variable is string
st_isalias()	st_isalias() st_aliasframe() st_aliaslinkname() st_aliasvarname()	whether variable is alias linked frame for alias link variable for alias target variable for alias
st_varformat()	st_varformat() st_varlabel() st_varvaluelabel()	obtain/set format of Stata variable obtain/set variable label obtain/set value label
st_vlexists()	st_vlexists() st_vldrop() st_vlmap() st_vlsearch() st_vlload() st_vlmodify()	whether value label exists drop value map values map text load value label create or modify value label

Temporary variables & time-series operators

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

Adding & removing variables & observations

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

 Executing Stata commands

stata()	stata()	execute Stata command
st_macroexpand()	st_macroexpand()	expand Stata macros

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

st_global()	st_global()	obtain/set Stata global
	st_global_hcat()	obtain hidden/historical status
st_local()	st_local()	obtain/set local Stata macro
st_numscalar()	st_numscalar()	obtain/set Stata numeric scalar
	st_numscalar_hcat()	obtain hidden/historical status
	st_strscalar()	obtain/set Stata string scalar
st_matrix()	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
st_dir()	st_dir()	obtain list of Stata objects
st_rclear()	st_rclear()	clear r()
	st_ecclear()	clear e()
	st_scclear()	clear s()

 Parsing & verification

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

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

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