

Stata — Stata interface functions

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[M-5] Manual entry	Function	Purpose
<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 10px;">Access to data</div>		
st_nvar()	st_nvar() st_nobs()	number of variables number of observations
st_data()	st_data() st_sdata()	load numeric data from Stata into matrix load string data from Stata into matrix
st_store()	st_store() st_sstore()	store numeric data in Stata dataset store string data in Stata dataset
st_view()	st_view() st_sview()	make view onto Stata dataset same; string variables
st_subview()	st_subview()	make view from view
st_viewvars()	st_viewvars() st_viewobs()	identify variables and observations corresponding to view
<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 10px;">Variable names & indices</div>		
st_varindex()	st_varindex()	variable indices from variable names
st_varname()	st_varname()	variable names from variable indices

Variable characteristics

st_varrename()	st_varrename()	rename Stata variable
st_vartype()	st_vartype()	storage type of Stata variable
	st_isnumvar()	whether variable is numeric
	st_isstrvar()	whether variable is string
st_isalias()	st_isalias()	whether variable is alias
	st_aliasframe()	linked frame for alias
	st_aliaslinkname()	link variable for alias
	st_aliasvarname()	target variable for alias
st_varformat()	st_varformat()	obtain/set format of Stata variable
	st_varlabel()	obtain/set variable label
	st_varvaluelabel()	obtain/set value label
st_vlexists()	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

st_tempname()	st_tempname()	temporary variable name
	st_tempfilename()	temporary filename
st_tsrevar()	st_tsrevar()	create time-series op.varname
	_st_tsrevar()	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()	add alias to Stata dataset
	_st_addalias()	same
st_dropvar()	st_dropvar()	drop variables
	st_dropobsin()	drop specified observations
	st_dropobsif()	drop selected observations
	st_keepvar()	keep variables
	st_keepobsin()	keep specified observations
st_keepobsif()	st_keepobsif()	keep selected observations
	st_keepobsif()	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_framerest()</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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