

stata — Stata interface functions

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[M-5] Manual entry	Function	Purpose
Access to data		
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
Variable names & indices		
st_varindex()	st_varindex()	variable indices from variable names
st_varname()	st_varname()	variable names from variable indices

Variable characteristics

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

Temporary variables & time-series operators

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

Adding & removing variables & observations

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

Executing Stata commands

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

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

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

Parsing & verification

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

Description

The above functions interface with Stata.

Remarks and examples

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

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

[M-5] st_data()	Load copy of current Stata dataset
[M-5] st_view()	Make matrix that is a view onto current Stata dataset
[M-5] st_store()	Modify values stored in current Stata dataset
[M-5] st_nvar()	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 <code>op.varname</code> 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] <code>stata()</code>	Execute Stata command
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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