

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 num. data in Stata dataset make view onto string data in Stata dataset |
| 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 |

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| Variable characteristics |
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| 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 |

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| Temporary variables & time-series operators |
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| 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 |

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| Adding & removing variables & observations |
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| 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 |

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

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

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

Parsing & verification

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

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|-------------------------|---|
| [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:

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|----------------------------------|---|
| [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:

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|-----------------------------------|--|
| [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

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| [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](#) — Index and guide to functions