Title

dtable — Create a table of descriptive statistics

Description Options Acknowledgments Quick start Remarks and examples Reference Menu Methods and formulas Also see Syntax Appendix

Description

The dtable command allows you to easily create a table of descriptive (summary) statistics, commonly known as "Table 1". Optionally, you can add *p*-values from test statistics comparing groups on summary statistics. You can also create a table complete with a title, notes, and more, and then export it to a variety of file types.

Quick start

Create a table describing continuous variables x1 and x2 and factor variables f1 and f2

dtable x1 x2 i.f1 i.f2

Same as above, but report statistics for each level of variable group, with and without the total sample

dtable x1 x2 i.f1 i.f2, by(group)
dtable x1 x2 i.f1 i.f2, by(group, nototals)

- Same as above, but test each variable for equality between groups using linear regressions for continuous variables and Pearson χ^2 tests for factor variables dtable x1 x2 i.f1 i.f2, by(group, tests)
- Same as above, but rather than putting sample frequencies in the first row, put them in the column header under each group label

dtable x1 x2 i.f1 i.f2, by(group, tests) sample(, place(seplabels))

Create a table of the median and interquartile interval for variables x1-x4

dtable, continuous(x1-x4, statistics(q2 iqi)) ///
 define(iqi = q1 q3) sformat("[%s]" iqi)

Same as above, but add the Kruskal-Wallis test for equality between levels of variable group
dtable, continuous(x1-x4, statistics(q2 iqi) test(kwallis)) ///
define(iqi = q1 q3) sformat("[%s]" iqi) by(group, tests)

Create a table to describe variables using survey weights dtable x* i.f*, svy

Same as above, but restrict the sample to the subpopulation where group equals 4 dtable x* i.f*, svy subpop(if group==4)

Menu

Statistics > Summaries, tables, and tests > Table of descriptive statistics

Syntax

```
dtable [varlist] [if] [in] [weight] [, options]
                                             Description
 options
Main
 by(varname[, by_opts])
                                              group results by categories of varname
 column(col_opts)
                                             change column header styles and titles
Survey
 svy
                                              use survey settings
 subpop([varname][if])
                                              identify a survey subpopulation
Sample
 nosample
                                             suppress sample frequency statistics
 sample([title][, samp_opts])
                                             select sample frequency statistics
Continuous
 <u>cont</u>inuous([varlist<sub>c</sub>]], cont_opts])
                                             select continuous variable statistics
Factors
 \underline{fact}or([varlist_f]], fact_opts])
                                             select factor-variable statistics
Composite
 define(name = elements[, def_opts])
                                             define a composite result
Formats
 nformat(% fmt [ results ] [, basestyle ])
                                             specify numeric format
 sformat(sfmt [results])
                                              specify string format
Title
 title(string)
                                             add table title
 titlestyles(text_styles)
                                             change table title styles
Notes
 note(string)
                                              add table note
 notestyles(text_styles)
                                             change table note styles
Export
 export (filename.suffix [, export_opts])
                                             export table
Options
  no varlabel
                                             display or suppress variable names or labels
  no fvlabel
                                             display or suppress factor values or labels
  no listwise
                                             specify how to handle missing values
 halign(hvalue)
                                             specify horizontal alignment of item cells
 name(cname)
                                              work with collection cname; default is name(DTable)
                                             replace the collection
 replace
 label(filename)
                                             specify the collection labels
 style(filename[, override])
                                             specify the collection style
                                             show collect warnings
 warn
```

warn does not appear in the dialog box.

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[no]tests show or suppress tests across groups [no]testnotes show or suppress notes about tests across groups [no]totals show or suppress statistics for the total sample [no]missing show or suppress numeric missing values in varname col_opts Description summary([title][, hcol_opts]) change header styles for the summary column by([by_style][, by_hcol_opts]) change header styles for the by() variable columns; by_style may be label, name, or hide
[no]totals show or suppress statistics for the total sample [no]missing show or suppress numeric missing values in varname col_opts Description summary([title][, hcol_opts]) change header styles for the summary column by([by_style][, by_hcol_opts]) change header styles for the by() variable columns;
inojmissing show or suppress numeric missing values in varname col_opts Description summary([title][, hcol_opts]) change header styles for the summary column by([by_style][, by_hcol_opts]) change header styles for the by() variable columns;
inojmissing show or suppress numeric missing values in varname col_opts Description summary([title][, hcol_opts]) change header styles for the summary column by([by_style][, by_hcol_opts]) change header styles for the by() variable columns;
<pre>summary([title][, hcol_opts]) change header styles for the summary column by([by_style][, by_hcol_opts]) change header styles for the by() variable columns;</pre>
<pre>summary([title][, hcol_opts]) change header styles for the summary column by([by_style][, by_hcol_opts]) change header styles for the by() variable columns;</pre>
by([by_style][, by_hcol_opts]) change header styles for the by() variable columns;
test([<i>title</i>][, <i>hcol_opts</i>]) change header styles for the test column
total([<i>title</i>][, <i>hcol_opts</i>]) change header styles for the total sample column
hcol_opts Description
no hide show or hide the column header title
halign(<i>hvalue</i>) specify horizontal alignment of column header cells
<i>text_styles</i> change column header text styles
nohide and hide do not appear in the dialog box for summary().
by_hcol_opts Description
no] <u>fvlab</u> el display by() variable values or value labels
halign(<i>hvalue</i>) specify horizontal alignment of column header cells
<i>text_styles</i> change column header text styles
text_styles Description
font([fontfamily][, font_opts]) specify font style
smcl(<i>smcl</i>) specify formatting for SMCL files
latex(<i>latex</i>) specify LATEX macro
shading(sspec) set background color, foreground color, and fill pattern
font_opts Description
size(# [unit]) specify font size
color(<i>color</i>) specify font color
variant(variant) specify font variant and capitalization
[no]bold specify whether to format text as bold
[no]italic specify whether to format text as italic
[no]strikeout specify whether to strike out text
[no]underline specify whether to underline text
underline(<i>upattern</i>) specify underline pattern for text

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as(markdown)

as(markdown)

markdown

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samp_opts		Description		
<pre>statistics(nstats)</pre>		select sample frequency statistics		
<pre>place(place)</pre>		select location for sample frequency statistics; place may be		
		items, <u>inlab</u> els, or <u>seplab</u> els		
text_styles		change row header text styles		
cont_opts		Description		
statistics(<i>cstats</i>)		select continuous variable statistics		
test(<i>ctest</i>)		select continuous variable test		
text_styles		change row header text styles		
frat ante		Description		
fact_opts		Description		
<pre>statistics(fstats)</pre>		select factor-variable statistics		
test(<i>ftest</i>)		select factor-variable test		
text_styles		change row header text styles		
def_opts		Description		
delimiter(<i>char</i>)		use character as delimiter between <i>elements</i>		
[no]trim		preserve or trim extra spaces from numeric formats		
nooverride		preserve or override trim property of elements		
replace		redefine <i>name</i> if it already exists		
suffix	fileformat	Output format		
docx	as(docx)	Microsoft Word		
html	as(html)	HTML 5 with CSS		
pdf	as(pdf)	PDF		
xlsx	as(xlsx)	Microsoft Excel 2007/2010 or newer		
xls	as(xls)	Microsoft Excel 1997/2003		
tex	as(latex)	LATEX		
smcl	as(smcl)	SMCL		
txt	as(txt)	plain text		

Markdown

Markdown

export_opts	Description	
as (fileformat)	specify document type	
replace	overwrite existing file	
docx_options	available when exporting to .docx files	
html_options	available when exporting to .html files	
pdf_options	available when exporting to .pdf files	
excel_options	available when exporting to .xls and .xlsx files	
tex_options	available when exporting to .tex files	
smcl_option	available when exporting to .smcl files	
txt_option	available when exporting to .txt files	
md_option	available when exporting to .markdown and .md files	
docx_options	Description	
<u>noi</u> sily	show the putdocx commands used to export to the Microsoft Word file	
<pre>dofile(filename[, replace])</pre>	save the putdocx commands used for exporting to the named do-file	
html_options	Description	
append	append to an existing file	
tableonly	export only the table to the specified file	
cssfile(<i>cssfile</i>)	define the styles in <i>cssfile</i> instead of <i>filename</i>	
<pre>prefix(prefix)</pre>	use prefix to identify style classes	
pdf_options	Description	
noisily	show the putpdf commands used to export to the PDF file	
<pre>dofile(filename[, replace])</pre>	save the putpdf commands used for exporting to the named do-file	
excel_options	Description	
noisily	show the putexcel commands used to export to the Excel file	
<pre>dofile(filename[, replace])</pre>	save the putexcel commands used for exporting to the named do-file	
<pre>sheet(sheetname[, replace])</pre>	specify the worksheet to use; the default sheet name is Sheet1	
cell(cell)	specify the Excel upper-left cell as the starting position to export the table; the default is cell(A1)	
modify	modify Excel file	
	do not open Excel file in memory	

noopen does not appear in the dialog box.

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Description	
append to an existing file	
export only the table to the specified file	
Description	
append to an existing file	
Description	
append to an existing file	
Description	
append to an existing file	

varlist may contain *i*. notation, including level selection. Time-series operators and interactions are not allowed.

fweights, aweights, iweights, and pweights are allowed; see [U] 11.1.6 weight.

results is a list of names taken from nstats, cstats, ctest, fstats, ftest, and composite results.

hvalue may be left, center, or right.

fontfamily specifies a valid font family.

unit may be in (inch), pt (point), or cm (centimeter). An inch is equivalent to 72 points and 2.54 centimeters. The default is pt.

variant may be allcaps, smallcaps, or normal.

- variant(allcaps) changes the text to all uppercase letters; applicable when publishing items from a collection to Microsoft Word, PDF, LATEX, and HTML files.
- variant(smallcaps) changes the text to use large capitals for uppercase letters and smaller capitals for lowercase letters; applicable when publishing items from a collection to Microsoft Word, LATEX, and HTML files.
- variant (normal) changes the font variant back to normal and leaves the capitalization unchanged from the original text; applicable when publishing items from a collection to Microsoft Word, PDF, LATEX, and HTML files.
- *upattern* may be any of the patterns listed in the *Appendix*. For example, underline(none) removes the underline from the text, and underline(single) underlines the text. All other *upatterns* are available only when publishing items from a collection to Microsoft Word.
- *smcl* specifies the name of the SMCL directive to render text for SMCL output. The supported SMCL directives are input, error, result, and text.
- *latex* specifies the name of a LATEX macro to render text for LATEX output. Example LATEX macro names are textbf, textsf, textrm, and texttt. Custom LATEX macros are also allowed. If *text* is to be rendered in a cell, title, or note, then *latex* is translated to the following when you export to LATEX:

\latex {text}

sspec is

background(bgcolor) foreground(fgcolor) pattern(fpattern)

bgcolor specifies the background color.

fgcolor specifies the foreground color.

fpattern specifies the fill pattern. A complete list of fill patterns is shown in the Appendix.

bgcolor, *fgcolor*, and *color* may be one of the colors listed in the *Appendix*; a valid RGB value in the form *### ###*, for example, 171 248 103; or a valid RRGGBB hex value in the form *######*, for example, ABF867.

sfmt is the specification for a string format in option sformat() and may contain a mix of text and %s. Here %s refers to the statistic value that is formatted as specified using nformat(). The text will be placed around the statistic as it is placed around %s in this option. For instance, to place parentheses around the statistic, you can specify sformat("(%s)").

Two text characters must be specified using a special character sequence if you want them to be displayed in your collection. To include %, type %. To include \land , type \land . For instance, to place a percent sign after a statistic, you can specify sformat("%s%%").

Options

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by (*varname*[, *by_opts*]) specifies that the statistics be displayed separately for each unique value of *varname*; *varname* may be numeric or string.

by_opts are the following:

tests and notests specify whether to show the tests comparing groups. tests displays the tests comparing groups; notests suppresses them.

When tests is combined with the missing suboption, the test will be performed with the missing values composing an additional group. By default, missing values are excluded from tests.

- testnotes and notestnotes specify whether to show a note detailing each test comparing groups. testnotes displays the notes; notestnotes suppresses them.
- totals and nototals specify whether to show the statistics for the total sample. totals displays the statistics for the total sample; nototals suppresses them.
- missing and nomissing specify whether to show numeric missing values in *varname*. missing displays the numeric missing values; nomissing suppresses them.

When missing is combined with the tests suboption, missing values will also be included in the test performed. By default, missing values are excluded from tests.

- column(col_opts) specifies the column header styles and titles. col_opts are one or more of the following.
 - summary([title][, [no]hide halign(hvalue) text_styles]) specifies the column header and styles when global option by() is not specified. The default title is Summary.
 - hide and nohide specify whether to show the title. hide suppresses the title; nohide displays the title.

- halign(hvalue) specifies how the column header cell is horizontally aligned. hvalue may be left, center, or right.
- text_styles affect the text styles for the column header.
- by([by_style][, [no]fvlabel halign(hvalue) text_styles]) specifies the by() variable's
 column header and styles.
 - *by_style* specifies the column header style for the by() variable. *by_style* may be label, name, or hide.
 - label specifies that the by() variable's label be used. If the by() variable does not have a label, then the name is used.
 - name specifies that the by() variable's name be used.
 - hide specifies that the by() variable not be shown in the column header.
 - fvlabel and nofvlabel specify whether value labels for the levels of the by() variable should be displayed. fvlabel displays the value labels; nofvlabel displays the values.
 - halign(*hvalue*) specifies how the column header cells are horizontally aligned. *hvalue* may be left, center, or right.
 - text_styles affect the text styles for the column header.
- test([title]], [no]hide halign(hvalue) text_styles]) specifies the column header and text styles for the test column. The default title is Test.
 - hide and nohide specify whether to show the title for the test column. hide suppresses the title; nohide displays the title.
 - halign(*hvalue*) specifies how the test column header cell is horizontally aligned. *hvalue* may be left, center, or right.
 - text_styles affect the text styles for the test column header.
- total($\lfloor title \rfloor \lfloor$, $\lfloor no \rfloor$ hide halign(*hvalue*) text_styles \rfloor) specifies the column header and text styles for the total sample. The default title is Total.
 - hide and nohide specify whether to show the title for the total sample. hide suppresses the title; nohide displays the title.
 - halign(*hvalue*) specifies how the total sample column header cell is horizontally aligned. *hvalue* may be left, center, or right.
 - *text_styles* affect the text styles for the total sample column header.
- *text_styles* are font([*fontfamily*][, *font_opts*]), smcl(*smcl*), latex(*latex*), and shading(*sspec*).
 - font([fontfamily] [, size(# [unit]) color(color) variant(variant) [no]bold
 [no]italic [no]strikeout [no]underline underline(upattern)]) specifies the font
 style. These font style properties are applicable when exporting the table to Microsoft Word,
 Microsoft Excel, PDF, HTML, and LATEX files, unless otherwise specified.
 - *fontfamily* specifies a valid font family. This font style property is applicable when publishing items from a collection to Microsoft Word, Microsoft Excel, PDF, and HTML files.
 - size(# [unit]) specifies the font size as a number optionally followed by units. This font style property is applicable when publishing items from a collection to Microsoft Word, Microsoft Excel, PDF, and HTML files.
 - color(color) specifies the text color.
 - variant(variant) specifies the font variant and capitalization.

- bold and nobold specify the font weight. bold changes the font weight to bold; nobold changes the font weight back to normal.
- italic and noitalic specify the font style. italic changes the font style to italic; noitalic changes the font style back to normal.
- strikeout and nostrikeout specify whether to add a strikeout mark to the text. strikeout adds a strikeout mark to the text; nostrikeout changes the text back to normal.
- underline (upattern), underline, and nounderline specify how to underline the text.

Only one of strikeout or underline is allowed when publishing to HTML files.

- smcl(smcl) specifies how to render the text for SMCL output. This style property is applicable
 only when publishing items from a collection to a SMCL file.
- latex(*latex*) specifies how to render the text for LATEX output. This style property is applicable only when publishing items from a collection to a LATEX file.
- shading(sspec) sets the background color, foreground color, and fill pattern. The background color is applicable when exporting the table to Microsoft Word, Microsoft Excel, PDF, HTML, and LATEX files. The foreground color and fill pattern are applicable when exporting the table to Microsoft Word and Microsoft Excel.

Survey

- svy specifies that dtable use the survey design information from svyset. This means all statistics will be computed using the specified survey weights, where applicable. This option changes the list of supported tests in continuous() and factor().
- subpop($\lfloor varname \rfloor \lfloor if \rfloor$) specifies that estimates be computed for the single subpopulation identified by the observations for which *varname* $\neq 0$ and that also meet the *if* conditions. Typically, *varname* = 1 defines the subpopulation, and *varname* = 0 indicates observations not belonging to the subpopulation. For observations whose subpopulation status is uncertain, *varname* should be set to a missing value; such observations are dropped from the estimation sample. This option implies the svy option.

See [SVY] Subpopulation estimation for more information.

Sample

nosample and sample() control the display of sample frequency statistics.

nosample prevents reporting any sample frequency statistic.

sample([title]], statistics(nstats) place(place) text_styles]) specifies sample frequency statistics, their row header title, and how they are composed in the table.

title specifies the row header for the sample frequency statistics. The default *title* is N.

statistics(*nstats*) specifies the sample frequency statistics to report.

nstats may include the following sample frequency statistics and any composite result defined from them.

nstats	Definition
frequency	frequency
sumw	sum of weights
percent proportion	percentage proportion
rawpercent rawproportion	unweighted percentage unweighted proportion

Without weights, the default sample frequency statistic is frequency.

With weights, the default sample frequency statistic is sumw.

With option by(), percent is added to the default sample frequency statistic.

place (*place*) controls where the sample frequency statistics are reported in the table.

- place(items), the default, specifies that the sample frequency statistics be reported in the first row of items in the table.
- place(inlabels) specifies that the sample frequency statistics be added to the column header labels.
- place(seplabels) specifies that the sample frequency statistics be stacked in the column header as separate labels.

text_styles specifies the text styles for *title*.

Continuous

continuous ($[varlist_c]$][, statistics(*cstats*) test(*ctest*) *text_styles*]) specifies continuous variables, their row header text styles, their statistics, and their test. If *varlist_c* is not specified, then the specified text styles, statistics, and test become the default for all continuous variables in *varlist*.

This option is repeatable, and when multiple text styles, statistics, or tests apply to a variable, the rightmost specification is applied.

statistics(*cstats*) specifies the statistics to report for *varlist_c*.

cstats may contain the following continuous variable statistics and any composite result defined from them.

cstats	Description	
mean	mean	
semean	standard error of the mean	
<u>sebinom</u> ial	standard error of the mean, binomial	
<u>sepois</u> son	standard error of the mean, Poisson	
variance	variance	
sd	standard deviation	
skewness	skewness	
kurtosis	kurtosis	
<u>Kuit</u> 0515	coefficient of variation	
	coefficient of variation (svy)	
svycv	element of variation (svy)	
geomean	geometric mean	
geosd	geometric standard deviation	
count	number of nonmissing values	
count	number of nonmissing values	
median	median	
p#	#th percentile	
q1	first quartile	
q2	second quartile	
q3	third quartile	
iqr	interquartile range	
min	minimum value	
max	maximum value	
range	range	
first	first value	
last	last value	
firstnm	first nonmissing value	
lastnm	last nonmissing value	
	c	
<u>tot</u> al	total	
<u>rawtot</u> al	unweighted total	

The default continuous variable statistics are mean and sd.

test(*ctest*) specifies that *ctest* be computed for the continuous variables in $varlist_c$. This option has no effect if the by() option is not specified.

ctest is one of the following:

ctest	Description
regress	main effects test from a linear regression
poisson	main effects test from a Poisson regression
lnormal	main effects test from a log-normal regression
kwallis	Kruskal-Wallis rank test
kwallis_ties	Kruskal-Wallis rank test, adjusted for ties
none	suppress the test

kwallis and kwallis_ties are not allowed with weights or the svy option.

The default test for continuous variables is regress.

For nonsurvey data, regress is equivalent to a one-way ANOVA, and when the by() variable has two levels, regress is equivalent to a pooled t test.

text_styles specifies the row header text styles for *varlist_c*.

Factors

factor($[varlist_f]$ [, statistics(*fstats*) test(*ftest*) text_styles]) specifies factor variables, their row header text styles, their statistics, and their test. If varlist_f is not specified, then the specified text styles, statistics, and test become the default for all factor variables in varlist.

This option is repeatable, and when multiple text styles, statistics, or tests apply to a variable, the rightmost specification is applied.

statistics (*fstats*) specifies the statistics to report for $varlist_f$.

fstats may contain the following factor-variable statistics and any composite result defined from them.

fstats	Definition
fvfrequency	frequency of each factor-variable level
fvpercent	percentage within each factor-variable level
fvproportion	proportion within each factor-variable level
fvrawfrequency	unweighted frequency of each factor-variable level
fvrawpercent	unweighted percentage within each factor-variable level
fvrawproportion	unweighted proportion within each factor-variable level

The default factor-variable statistics are fvfrequency and fvpercent.

test(*ftest*) specifies that *ftest* be computed for the factor variables in $varlist_f$. This option has no effect if the by() option is not specified.

ftest is one of the following:

ftest	Description
pearson	Pearson's χ^2 test
fisher	Fisher's exact test
lrchi2	likelihood-ratio χ^2 test
gamma	Goodman and Kruskal's gamma
kendall	Kendall's τ_b
cramer	Cramér's V
svylr	survey-adjusted likelihood-ratio test
svywald	survey-adjusted Wald test
svyllwald	survey-adjusted log-linear Wald test
none	suppress the test

fisher, lrchi2, gamma, kendall, and cramer are not allowed with aweights, iweights, pweights, or the svy option.

svylr, svywald, and svyllwald are allowed only with the svy option.

The default test for factor variables is pearson.

text_styles specifies the row header text styles for *varlist*_f.

Composite

define (*name=elements* [, *def_opts*]) defines a composite result. Composite results give more control over how statistics are composed and formatted in a table cell.

name is the name you choose for the new composite result.

elements is a list of statistics and other composite results.

def_opts are delimiter(*char*), | no | trim, | no | override, and replace.

delimiter (char) changes the delimiter between elements. The default is delimiter (" ").

- notrim and trim control the handling of extra spaces caused by numeric formats applied to the elements. notrim preserves the extra spaces; trim, the default, removes the extra spaces.
- nooverride and override control handling of the trim property when an element is a composite result. nooverride, the default, does not change the trim property of elements; override applies the specified trim property to all elements.

replace permits you to redefine *name* if it already exists.

Formats

nformat(%fmt [results][, basestyle]) changes the numeric format, such as the number of decimal places, for specified results. If results are not specified, the numeric format is changed for all results.

results is a list of names taken from nstats, cstats, ctest, fstats, ftest, and composite results.

This option is repeatable, and when multiple formats apply to one result, the rightmost specification is applied.

This option does not affect the format of factor variables specified in *varlist* or the factor() option. The default format of these variables is taken from the dataset.

basestyle indicates that the format be applied to results that do not already have their own format instead of overriding the format for all results.

sformat(*sfmt* [*results*]) changes the string format for specified results. You can, for instance, add symbols or text to the values reported in the table by modifying the string format.

sfmt may contain a mix of text and %s. Here %s refers to the numeric value that is formatted as specified using nformat(). The text will be placed around the numeric values in your table as it is placed around %s in this option. For instance, to place parentheses around the percent statistics, you can specify sformat("(%s)" fvpercent percent).

results is a list of names taken from nstats, cstats, ctest, fstats, ftest, and composite results.

Two text characters must be specified using a special character sequence if you want them to be displayed in your table. To include %, type %. To include \land , type \land . For instance, to place a percent sign following percent statistics, you can specify sformat("%s%%" fvpercent percent).

This option is repeatable, and when multiple formats apply to one result, the rightmost specification is applied.

Title

title(*string*) adds the text *string* as a title to the table.

titlestyles(*text_styles*) changes the style for the table title. *text_styles* are the following:

font([fontfamily] [, size(# [unit]) color(color) variant(variant) [no]bold

[no]italic [no]strikeout [no]underline]) specifies the font style. These font style properties are applicable when exporting the table to Microsoft Word, Microsoft Excel, PDF, HTML, and LAT_FX files, unless otherwise specified.

- *fontfamily* specifies a valid font family. This font style property is applicable when publishing items from a collection to Microsoft Word, Microsoft Excel, PDF, and HTML files.
- size(# [unit]) specifies the font size as a number optionally followed by units. This font style property is applicable when publishing items from a collection to Microsoft Word, Microsoft Excel, PDF, and HTML files.
- color(color) specifies the text color.
- variant(variant) specifies the font variant and capitalization.
- bold and nobold specify the font weight. bold changes the font weight to bold; nobold changes the font weight back to normal.
- italic and noitalic specify the font style. italic changes the font style to italic; noitalic changes the font style back to normal.
- strikeout and nostrikeout specify whether to add a strikeout mark to the title. strikeout adds a strikeout mark to the title; nostrikeout changes the title back to normal.
- underline and nounderline specify whether to underline the table title. underline adds a single line under the title; nounderline removes the underline.

Only one of strikeout or underline is allowed when publishing to HTML files.

- smcl(smcl) specifies how to render the table title for SMCL output. This style property is applicable
 only when publishing items from a collection to a SMCL file.
- latex(*latex*) specifies how to render the table title for LATEX output. This style property is applicable only when publishing items from a collection to a LATEX file.
- shading(sspec) sets the background color, foreground color, and fill pattern. The background color is applicable when exporting the table to Microsoft Word, Microsoft Excel, PDF, HTML, and LATEX files. The foreground color and fill pattern are applicable when exporting the table to Microsoft Word and Microsoft Excel.

Notes

note(string) adds the text string as a note to the table. note() may be specified multiple times to add multiple notes. Each note is placed on a new line.

notestyles(text_styles) changes the style for the table notes. text_styles are the following:

- font([fontfamily] [, size(# [unit]) color(color) variant(variant) [no]bold
 [no]italic [no]strikeout [no]underline]) specifies the font style. These font style
 properties are applicable when exporting the table to Microsoft Word, Microsoft Excel, PDF,
 HTML, and LATEX files, unless otherwise specified.
 - *fontfamily* specifies a valid font family. This font style property is applicable when publishing items from a collection to Microsoft Word, Microsoft Excel, PDF, and HTML files.
 - size(# $\lfloor unit \rfloor$) specifies the font size as a number optionally followed by units. This font style property is applicable when publishing items from a collection to Microsoft Word, Microsoft Excel, PDF, and HTML files.
 - color(color) specifies the text color.
 - variant(variant) specifies the font variant and capitalization.
 - bold and nobold specify the font weight. bold changes the font weight to bold; nobold changes the font weight back to normal.
 - italic and noitalic specify the font style. italic changes the font style to italic; noitalic changes the font style back to normal.
 - strikeout and nostrikeout specify whether to add a strikeout mark to the notes. strikeout adds a strikeout mark to the note; nostrikeout changes the note back to normal.
 - underline and nounderline specify whether to underline the table notes. underline adds a single line under the notes; nounderline removes the underline.

Only one of strikeout or underline is allowed when publishing to HTML files.

- smcl(smcl) specifies how to render the table notes for SMCL output. This style property is applicable only when publishing items from a collection to a SMCL file.
- latex(*latex*) specifies how to render the table notes for LATEX output. This style property is applicable only when publishing items from a collection to a LATEX file.
- shading(*sspec*) sets the background color, foreground color, and fill pattern. The background color is applicable when exporting the table to Microsoft Word, Microsoft Excel, PDF, HTML, and LATEX files. The foreground color and fill pattern are applicable when exporting the table to Microsoft Word and Microsoft Excel.

Export

- export (*filename.suffix* [, *export_opts*]) exports the table to the specified file. *export_opts* are the following:
 - as (*fileformat*) specifies the file format to which the table is to be exported. This option is rarely specified because, by default, dtable determines the format from the suffix of the file being created.
 - replace permits dtable to overwrite an existing file.
 - noisily specifies that dtable show the commands used to export the table to Microsoft Word, Microsoft Excel, and PDF files. The putdocx, putexcel, or putpdf command used to export the table will be displayed.
 - dofile(*filename* [, replace]) specifies that dtable save to *filename* the commands used to export the table to Microsoft Word, Microsoft Excel, and PDF files.

If *filename* already exists, it can be overwritten by specifying replace. If *filename* is specified without an extension, .do is assumed.

append specifies that dtable append the table to an existing file.

This option is applicable when you export the table to an HTML, a LATEX, a SMCL, a txt, or a Markdown file. When you export to HTML and LATEX files, the append option implies the tableonly option. Furthermore, when you export to HTML files, if the target CSS file already exists, dtable will also append to it.

tableonly specifies that only the table be exported to the specified HTML or LATEX document. By default, dtable produces complete HTML and LATEX documents.

When you export to an HTML file, if the cssfile() option is not specified, a CSS filename is constructed from *filename*, with the extension replaced with .css.

- cssfile(*cssfile*) specifies that dtable define the styles in *cssfile* instead of *filename* when you export to HTML.
- prefix (prefix) specifies that dtable use prefix to identify style classes when you export to HTML.
- cell(*cell*) specifies an Excel upper-left cell as the starting position to publish the table. The default is cell(A1).
- modify permits putexcel set to modify an Excel file. For more information about this option, see [RPT] putexcel.
- noopen prevents putexcel from opening the Excel file in memory for modification. It does not appear on the dialog box. For more information about this option, see [RPT] putexcel.

Options

- varlabel and novarlabel specify whether variable labels for the continuous and factor variables should be displayed. varlabel displays the variable label; novarlabel displays variable names.
- fvlabel and nofvlabel specify whether value labels for the factor variables should be displayed.
 fvlabel displays value labels; nofvlabel displays the values.
- listwise and nolistwise specify how to handle missing values across the continuous and factor variables. listwise handles missing values through listwise deletion, meaning that the entire observation is omitted from the sample if any continuous or factor variable is missing for that

observation; nolistwise specifies that dtable omit an observation only if all the continuous and factor variables are missing for that observation.

- halign(hvalue) specifies how the item cells are horizontally aligned. hvalue may be left, center, or right.
- name(cname) specifies the collection for dtable to work with. The default is name(DTable).
- replace permits dtable to overwrite the existing collection. This option is implied for name(DTable).
- label(filename) specifies the filename containing the collection labels to use for your table. Labels in filename will be loaded for the table, and default labels will be used for any labels not specified in filename.

style(filename |, override]) specifies the filename containing the collection styles to use for your table. This might be a style you saved with collect style save or a predefined style shipped with Stata. The dtable collection styles will be discarded, and only the collection styles in filename will be applied. Note that the layout specification saved in filename will not be applied; dtable will always use its predefined layout.

If you prefer the dtable collection styles but also want to apply any styles in *filename*, specify override. If there are conflicts between the default collection styles and those in *filename*, the ones in *filename* will take precedence.

The default is to use only the collection styles set in c(dtable_style); see [TABLES] set dtable_style.

The following option is available with dtable but is not shown in the dialog box:

warn specifies that dtable display warnings from collect. By default, these warnings are suppressed.

Remarks and examples

stata.com

Remarks are presented under the following headings:

Introduction A first example Describe variables across groups Survey data Save your style choices for next time Composite results The default style

Introduction

dtable allows you to easily create a table of summary statistics and export it to a variety of file types, without any knowledge of the collection system. You can specify the continuous and factor variables that you want described in your table. You can also customize the table by formatting the results, changing the variable-specific statistics, adding a variable to identify sample groups, testing each variable for equality between groups, adding a title and notes, and more.

In most cases, you will use dtable to easily create a table and export it to another format. However, you can customize the table beyond the options that are available with dtable. When you issue a dtable command, the results are stored in a collection called DTable. This collection is replaced with each new dtable command, unless you specify a different name for the collection in the name() option. You can make additional changes to the collection with the collect suite of commands. To learn more about the collect commands, see [TABLES] Intro and the entries discussed therein.

A first example

In its simplest specification, you type dtable and a list of variables you want described in your table. For our first example, we use data from the Second National Health and Nutrition Examination Survey (NHANES II) (McDowell et al. 1981). Our table describes continuous variables for systolic blood pressure, age, weight, and factor variables for race and health status.

use https://www.stata-press.com/data/r18/nhanes21
 (Second National Health and Nutrition Examination Survey)
 dtable bpsystol age weight i.race i.hlthstat

	Summary
N	10,351
Systolic blood pressure	130.882 (23.333)
Age (years)	47.580 (17.215)
Weight (kg)	71.898 (15.356)
Race	
White	9,065 (87.6%)
Black	1,086 (10.5%)
Other	200 (1.9%)
Health status	
Excellent	2,407 (23.3%)
Very good	2,591 (25.1%)
Good	2,938 (28.4%)
Fair	1,670 (16.2%)
Poor	729 (7.1%)

The default continuous variable statistics are the mean and standard deviation. The default factorvariable statistics are the factor-level frequencies and percentages. You can change the statistics reported for each continuous and factor variable; see the continuous() and factor() options for the list of supported statistics.

Many options are also available to change the formatting and style of your table. Here we set the format of means and standard deviations to show two decimal places, remove the first row of the table with the overall sample size, and change the column header to be more descriptive of the table results.

<pre>. dtable bpsystol age weight i.race i.hlthstat, > nformat(%16.2fc mean sd) > nosample > column(summary(M(SD) / n(%)))</pre>		
	M(SD) / n(%)	
Systolic blood pressure Age (years) Weight (kg) Race White Black Other Health status Excellent Very good Good	130.88 (23.33) 47.58 (17.21) 71.90 (15.36) 9,065 (87.6%) 1,086 (10.5%) 200 (1.9%) 2,407 (23.3%) 2,591 (25.1%) 2,938 (28.4%)	
Fair Poor	1,670 (16.2%) 729 (7.1%)	

Additionally, you can complete your table with a title and notes and even export it to another format. We now add a title and export our table to the file mydtable.html.

<pre>. dtable bpsystol age weight i.race i.hlthstat > nformat(%16.2fc mean sd) > nosample</pre>				
> title(Table 1)			
> export(mydtab)	le.html)			
Table 1				
	M(SD) / n(%)			
Systolic blood pressure	130.88 (23.33)			
Age (years)	47.58 (17.21)			
Weight (kg)	71.90 (15.36)			
Race				
White	9,065 (87.6%)			
Black	1,086 (10.5%)			
Other	200 (1.9%)			
Health status				
Excellent	2,407 (23.3%)			
Very good	2,591 (25.1%)			
Good	2,938 (28.4%)			
Fair	1,670 (16.2%)			
Poor	729 (7.1%)			

(collection DTable exported to file mydtable.html)

We could also export this table to a Microsoft Word, Microsoft Excel, LATEX, Markdown, SMCL, PDF, or plain-text file by specifying the appropriate file extension.

Describe variables across groups

Describing variables across samples in your dataset is easy with the by() option. In the following, we revisit our original table, but we add the by() option to get summary statistics from the urban, rural, and total samples.

```
. dtable bpsystol age weight i.race i.hlthstat, by
(rural) sample(N (%))
```

	Urban	Rural Rural	Total
N (%)	6,548 (63.3%)	3,803 (36.7%)	10,351 (100.0%)
Systolic blood pressure	130.460 (23.526)	131.607 (22.980)	130.882 (23.333)
Age (years)	46.835 (17.484)	48.862 (16.666)	47.580 (17.215)
Weight (kg)	71.427 (15.363)	72.708 (15.314)	71.898 (15.356)
Race			
White	5,419 (82.8%)	3,646 (95.9%)	9,065 (87.6%)
Black	968 (14.8%)	118 (3.1%)	1,086 (10.5%)
Other	161 (2.5%)	39 (1.0%)	200 (1.9%)
Health status			
Excellent	1,609 (24.6%)	798 (21.0%)	2,407 (23.3%)
Very good	1,713 (26.2%)	878 (23.1%)	2,591 (25.1%)
Good	1,878 (28.7%)	1,060 (27.9%)	2,938 (28.4%)
Fair	950 (14.5%)	720 (19.0%)	1,670 (16.2%)
Poor	389 (5.9%)	340 (9.0%)	729 (7.1%)

Next, we add the tests suboption in the by() option to report tests of equality between samples and the nototals option to suppress the column of statistics from the total sample. We also specify that we would like sample statistics to be in the column headers rather than the first row of the table using the sample() option. Here we also add the column(by(hide)) option to suppress the redundant label from variable rural and add notes that detail what is being reported.

```
. dtable bpsystol age weight i.race i.hlthstat,
> by(rural, nototals tests)
> column(by(hide))
> sample(, place(seplabels))
> note(Mean (Standard deviation): p-value from a pooled t-test.)
> note(Frequency (Percent%): p-value from Pearson test.)
note: using test regress across levels of rural for bpsystol, age, and
weight.
note: using test pearson across levels of rural for race and hlthstat.
```

	U	Urban		Rural	
	6,548	(63.3%)	3,803	(36.7%)	
Systolic blood pressure	130.460	(23.526)	131.607	(22.980)	0.016
Age (years)	46.835	(17.484)	48.862	(16.666)	<0.001
Weight (kg)	71.427	(15.363)	72.708	(15.314)	<0.001
Race					
White	5,419	9 (82.8%)	3,646	6 (95.9%)	<0.001
Black	968	3 (14.8%)	1:	18 (3.1%)	
Other	16	61 (2.5%)	3	39 (1.0%)	
Health status					
Excellent	1,609	9 (24.6%)	798	3 (21.0%)	<0.001
Very good	1,713	3 (26.2%)	878	3 (23.1%)	
Good	1,878	3 (28.7%)	1,060) (27.9%)	
Fair	950) (14.5%)	720) (19.0%)	
Poor	38	39 (5.9%)	34	40 (9.0%)	

Mean (Standard deviation): p-value from a pooled t-test. Frequency (Percent%): p-value from Pearson test.

For continuous variables, the Test column reports the *p*-value from linear regressions, which are equivalent to pooled t tests because rural has two categories. For factor variables, the Test column reports the *p*-values from Pearson χ^2 tests.

Survey data

dtable supports survey data by using the survey data characteristics in your dataset when you specify the svy option. Your data must be svyset prior to calling dtable with the svy option. Our data already have survey data characteristics.

```
. svyset
Sampling weights: finalwgt
VCE: linearized
Single unit: missing
Strata 1: strata
Sampling unit 1: psu
FPC 1: <zero>
```

The following table reports the survey weighted frequency, mean, standard deviation, factor-level frequency, and factor-level percent of the specified variables.

. dtable bpsystol age weight i.race i.hlthstat, svy

	Summary
N	117,157,513
Systolic blood pressure	126.946 (21.401)
Age (years)	42.253 (15.502)
Weight (kg)	71.901 (15.433)
Race	
White	102,999,549 (87.9%)
Black	11,189,236 (9.6%)
Other	2,968,728 (2.5%)
Health status	
Excellent	32,187,335 (27.5%)
Very good	32,176,310 (27.5%)
Good	32,715,395 (28.0%)
Fair	14,380,261 (12.3%)
Poor	5,537,956 (4.7%)

Option by() is allowed with svy. dtable also has options for tests of equality between groups that are allowed with svy. These tests account for the survey data characteristics in your data. In the following, we revisit the urban and rural summary table, but we add the svy option, a title, and some notes. We also add the column(by(hide)) option to suppress the redundant label from variable rural and add the test() suboption to rename the Test column.

```
. dtable bpsystol age weight i.race i.hlthstat, svy
>
          by(rural, nototals tests)
          column(by(hide) test(p-value))
>
>
          title(Survey data summary)
>
          note(Mean (Standard deviation): p-value from linear regression.)
          note(Frequency (Percent%): p-value from Pearson test.)
>
          note(Statistics computed using the survey weights.)
>
          note(Tests adjusted for the survey design.)
>
note: using test regress across levels of rural for bpsystol, age, and
      weight.
note: using test pearson across levels of rural for race and hlthstat.
Survey data summary
```

	Urban	Rural	p-value
N	79,965,794 (68.3%)	37,191,719 (31.7%)	
Systolic blood pressure	126.607 (21.438)	127.675 (21.305)	0.406
Age (years)	41.805 (15.662)	43.215 (15.112)	0.024
Weight (kg)	71.322 (15.371)	73.144 (15.493)	<0.001
Race			
White	67,579,394 (84.5%)	35,420,155 (95.2%)	<0.001
Black	9,936,159 (12.4%)	1,253,077 (3.4%)	
Other	2,450,241 (3.1%)	518,487 (1.4%)	
Health status			
Excellent	22,781,784 (28.5%)	9,405,551 (25.3%)	<0.001
Very good	22,867,496 (28.6%)	9,308,814 (25.1%)	
Good	22,089,942 (27.7%)	10,625,453 (28.6%)	
Fair	8,892,926 (11.1%)	5,487,335 (14.8%)	
Poor	3,229,798 (4.0%)	2,308,158 (6.2%)	

Mean (Standard deviation): p-value from linear regression. Frequency (Percent%): p-value from Pearson test. Statistics computed using the survey weights. Tests adjusted for the survey design.

Save your style choices for next time

If you find yourself repeating certain options each time you use dtable, you can save most of those option choices for future tables. Use collect style save to store your dtable option choices to a collection style file and then specify this file in the style() option the next time you use dtable. If you store the collection style file in your PERSONAL folder, you can set that file as the default style for dtable.

In the following, we use dtable to create a table with some option choices, save our style to a file in the PERSONAL directory, and set that style file as the default for dtable.

```
. sysuse auto
(1978 automobile data)
. dtable mpg turn i.rep78,
>
      sample(Sample, statistic(frequency) place(seplabels))
      sformat("n=%s" frequency)
>
>
      by(foreign, tests nototals missing)
>
      continuous(, test(kwallis))
      factor(, test(pearson))
>
      title(Table 1. Summary by group with a test.)
>
      note(Kruskal-Wallis test for continuous variables.)
>
      note(Pearson's test for factor variables.)
>
note: using test kwallis across levels of foreign for mpg and turn.
note: using test pearson across levels of foreign for rep78.
```

Table 1. Summary by group with a test.

	Ca Domestic n=52		ar origin Foreign n=22		Test
Mileage (mpg)	19.827	(4.743)	24.773	(6.611)	0.002
Turn circle (ft.)	41.442	(3.968)	35.409	(1.501)	<0.001
Repair record 1978					
1	2	2 (4.2%)	(0.0%)	<0.001
2	8	(16.7%)	(0.0%)	
3	27 (56.2%)		3	(14.3%)	
4	9	(18.8%)	9	(42.9%)	
5	2	2 (4.2%)	9	(42.9%)	

Kruskal-Wallis test for continuous variables. Pearson's test for factor variables.

. personal dir

your personal ado-directory is C:\ado\personal\
(output omitted)

. collect style save "C:\ado\personal\mydtable" (style from DTable saved to file C:\ado\personal\mydtable.stjson) . set dtable_style mydtable . display c(dtable_style) mydtable Now these style choices are the defaults for tables created in the future. Here we create a similarly styled table but from different data.

```
. use https://www.stata-press.com/data/r18/lbw
(Hosmer & Lemeshow data)
. dtable age i.smoke i.ht, by(low)
note: using test kwallis across levels of low for age.
note: using test pearson across levels of low for smoke and ht.
Table 1. Summary by group with a test.
```

	n=	Birth 0 =130	weight<2 n=	2500g 1 =59	Test
Age of mother	23.662	(5.585)	22.305	(4.511)	0.248
Smoked during pregnancy					
Nonsmoker	86	(66.2%)	29	(49.2%)	0.026
Smoker	44	(33.8%)	30	(50.8%)	
Has history of hypertension					
0	125	(96.2%)	52	(88.1%)	0.036
1	Į	5 (3.8%)	7	(11.9%)	

Kruskal-Wallis test for continuous variables. Pearson's test for factor variables.

To reset the dtable style back to its original default, type

. set dtable_style dtable

You can add the permanently option to set the default dtable style for future Stata sessions.

Composite results

dtable's default style does not define any composite results, so you will need to define your own with the define() option. Stata has a collection style named dtable_composites that defines the following composite results for you.

elements	Description
p10 p90	Interdecile interval
q1 q3	Interquartile interval
min max	Range interval
	p10 p90 q1 q3

All of these results are bound in square brackets without a delimiter between their elements. To get access to these composite results, use the style(dtable_composites, override) option. You can then specify idi, iqi, and rangei in the statistic() suboption of continuous(), just as you would any other statistic.

You may want different formatting for these composite results, or you may want to create composite results based on other statistics. The define() option allows you to customize your own composite results. In the following, we use dtable to create a table that defines our own interval results with some other option choices and then save the collection's style to a file.

```
. sysuse auto
(1978 automobile data)
. dtable, define(idi = p10 p90, delimiter("; "))
          define(iqi = q1 q3, delimiter("; "))
>
          define(rangei = min max, delimiter("; "))
>
>
          sample(Sample, statistic(frequency) place(seplabels))
          sformat("n=%s" frequency)
>
          sformat("{%s}" idi)
>
          sformat("[%s]" iqi)
>
>
          sformat("<%s>" rangei)
>
          continuous(mpg, statistic(p50 idi))
          continuous(turn, statistic(q2 iqi))
>
>
          continuous(trunk, statistic(mean rangei))
>
          title(Table 1. Location and interval.)
          note(Median {Interdecile interval})
>
          note(Median [Interquartile interval])
>
>
          note(Mean <Range interval>)
Table 1. Location and interval.
                               Summary
                                n=74
                      20.000 {14.000; 29.000}
Mileage (mpg)
Turn circle (ft.)
                      40.000 [36.000; 43.000]
Trunk space (cu. ft.) 13.757 <5.000; 23.000>
Median {Interdecile interval}
Median [Interquartile interval]
Mean <Range interval>
. collect style save dtable-intervals
(style from DTable saved to file dtable-intervals.stjson)
```

Now we can use this style and simply reference our composite results without having to redefine them.

	dtable,	<pre>continuous(mpg, statistic(p50 idi))</pre>
>		<pre>continuous(turn, statistic(q2 iqi))</pre>
>		<pre>continuous(trunk, statistic(mean rangei))</pre>
>		<pre>style(dtable-intervals)</pre>
Ta	able 1. I	Location and interval.

	Summary n=74
Mileage (mpg)	20.000 {14.000; 29.000}
Turn circle (ft.)	40.000 [36.000; 43.000]
Trunk space (cu. ft.)	13.757 <5.000; 23.000>

Median {Interdecile interval} Median [Interquartile interval] Mean <Range interval>

The default style

Most of dtable's option defaults are controllable in its collection style. The following options are not part of dtable's collection style:

svy
subpop()
export()
name()
replace
label()
style()
warn

When the by() option is not specified, the default column() header options are

```
summary("Summary", nohide
    halign(center)
    font(, nobold
        noitalic
        nostrikeout
        nounderline)
    smcl(text))
```

When a variable is specified in the by() option, its default options are

notest testnotes totals nomissing

and its default column() header options are

```
by(label, nohide
          fvlabel
          halign(center)
          font(, nobold
                  noitalic
                  nostrikeout
                  nounderline)
          smcl(text))
total("Total", nohide
               halign(center)
               font(, nobold
                       noitalic
                       nostrikeout
                       nounderline)
               smcl(text))
test("Test", nohide
             halign(center)
             font(, nobold
                     noitalic
                     nostrikeout
                     nounderline)
             smcl(text))
```

The default sample frequency title is "N". When weights are not specified, the default sample frequency statistic is frequency; otherwise, sumw is reported. When the by() option is specified, percent is added to the default sample frequency statistic. The other default sample() options are

The defaults for the continuous() option are

The defaults for the factor() option are

There are no predefined composite results in dtable's default style.

The default formats are

There is no default table title. The defaults for the titlestyles() option are

There are no default table notes. The defaults for the notestyles() option are

The remaining default options for dtable are

```
varlabel
fvlabel
nolistwise
halign(right)
```

Methods and formulas

See Methods and formulas in [R] table for details on the statistics supported by dtable. When the svy or subpop() option is specified, the weights from svyset are used to compute statistics that support weights. In addition, the subpopulation variance $\hat{\sigma}^2$ is computed as

$$\widehat{\sigma}^2 = s^2 \frac{M}{n-1} \cdot \frac{n_s - 1}{M_s}$$

where s^2 is the sample variance as documented in [R] **table**, M is the estimated population size, n is the full sample size, M_s is the estimated subpopulation size, and n_s is the subpopulation sample size. The subpopulation standard deviation is computed as $\hat{\sigma} = \sqrt{\hat{\sigma}^2}$ and coefficient of variation (cv) is computed as $\hat{\sigma}/\bar{x}$.

Let y be a continuous variable and by(group, tests) be in effect. For test(regress), dtable reports the p-value from test [#1] after

```
regress y i.group [if] [in] [weight]
```

For test(poisson), dtable reports the *p*-value from test [#1] after

```
poisson y i.group |if| |in| | weight |
```

For test(lnormal), dtable reports the *p*-value from test [#1] after

gsem y <- i.group [*if*] [*in*] [*weight*], family(lognormal)

For test(kwallis) and test(kwallis_ties), dtable reports the p-values corresponding with the χ^2 statistics reported by

kwallis y [if] [in], by(group)

When the svy or subpop() option is specified, the prefix

```
svy, subpop([varname] [if]) :
```

is used with regress, poisson, and gsem. For more details, see [R] test, [R] regress, [R] poisson, [SEM] gsem, [R] kwallis, and [SVY] svy.

Let f be a factor variable and by(group, tests) be in effect. For nonsurvey data, the factorvariable test across groups is performed using

tabulate f group [if] [in] [weight], opt

where *opt* is an option of tabulate corresponding with the specified test(*ftest*) using the following table:

opt	
chi2	
exact	
lrchi2	
gamma	
taub	
V	
	chi2 exact lrchi2 gamma taub

For survey data, dtable reports the *p*-value from

svy, subpop($\lceil varname \rceil \mid [if]$): tabulate f group $\lceil if \rceil \mid [in]$, opt

where *opt* is an option of svy: tabulate corresponding with the specified test(*ftest*) using the following table:

ftest	opt
pearson	pearson
svylr	lr
svywald	wald
svyllwald	llwald

pearson, fisher, lrchi2, svylr, svywald, and svyllwald report a *p*-value. gamma, kendall, and cramer report the computed measure of association. For more details, see [R] tabulate twoway and [SVY] svy: tabulate twoway.

Appendix

Colors

bgcolor, fgcolor, and color

aliceblue	darkslategray	lightsalmon	palevioletred
antiquewhite	darkturquoise	lightseagreen	papayawhip
aqua	darkviolet	lightskyblue	peachpuff
aquamarine	deeppink	lightslategray	peru
azure	deepskyblue	lightsteelblue	pink
beige	dimgray	lightyellow	plum
bisque	dodgerblue	lime	powderblue
black	firebrick	limegreen	purple
blanchedalmond	floralwhite	linen	red
blue	forestgreen	magenta	rosybrown
blueviolet	fuchsia	maroon	royalblue
brown	gainsboro	mediumaquamarine	saddlebrown
burlywood	ghostwhite	mediumblue	salmon
cadetblue	gold	mediumorchid	sandybrown
chartreuse	goldenrod	mediumpurple	seagreen
chocolate	gray	mediumseagreen	seashell
coral	green	mediumslateblue	sienna
cornflowerblue	greenyellow	mediumspringgreen	silver
cornsilk	honeydew	mediumturquoise	skyblue
crimson	hotpink	mediumvioletred	slateblue
cyan	indianred	midnightblue	slategray
darkblue	indigo	mintcream	snow
darkcyan	ivory	mistyrose	springgreen
darkgoldenrod	khaki	moccasin	steelblue
darkgray	lavender	navajowhite	tan
darkgreen	lavenderblush	navy	teal
darkkhaki	lawngreen	oldlace	thistle
darkmagenta	lemonchiffon	olive	tomato
darkolivegreen	lightblue	olivedrab	turquoise
darkorange	lightcoral	orange	violet
darkorchid	lightcyan	orangered	wheat
darkred	lightgoldenrodyellow	orchid	white
darksalmon	lightgray	palegoldenrod	whitesmoke
darkseagreen	lightgreen	palegreen	yellow
darkslateblue	lightpink	paleturquoise	yellowgreen

Underline patterns

upattern	
none	dashLong
single	dashLongHeavy
words	dotDash
double	dashDotHeavy
thick	dotDotDash
dotted	dashDotDotHeavy
dottedHeavy	wave
dash	wavyHeavy
dashedHeavy	wavyDouble

Shading patterns

fpattern		
nil	pct20	
clear	pct25	
solid	pct30	
horzStripe	pct35	
vertStripe	pct37	
reverseDiagStripe	pct40	
diagStripe	pct45	
horzCross	pct50	
diagCross	pct55	
thinHorzStripe	pct60	
thinVertStripe	pct62	
thinReverseDiagStripe	pct65	
thinDiagStripe	pct70	
thinHorzCross	pct75	
thinDiagCross	pct80	
pct5	pct85	
pct10	pct87	
pct12	pct90	
pct15	pct95	

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Reference

McDowell, A., A. Engel, J. T. Massey, and K. Maurer. 1981. Plan and operation of the Second National Health and Nutrition Examination Survey, 1976–1980. Vital and Health Statistics 1(15): 1–144.

Also see

- [R] table intro Introduction to tables of frequencies, summaries, and command results
- [R] table summary Table of summary statistics

[TABLES] Intro — Introduction

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