

*twoway\_options* — Options for twoway graphs

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## Description

The above options are allowed with all *plottypes* (`scatter`, `line`, etc.) allowed by `graph twoway`; see [G-2] [graph twoway](#).

## Syntax

The *twoway\_options* allowed with all `twoway` graphs are

<i>twoway_options</i>	Description
<i>added_line_options</i>	draw lines at specified <i>y</i> or <i>x</i> values
<i>added_text_options</i>	display text at specified ( <i>y,x</i> ) value
<i>axis_options</i>	labels, ticks, grids, log scales
<i>title_options</i>	titles, subtitles, notes, captions
<i>legend_options</i>	legend explaining what means what
<i>scale(#)</i>	resize text, markers, line widths
<i>region_options</i>	outlining, shading, graph size
<i>aspect_option</i>	constrain aspect ratio of plot region
<i>scheme(schemename)</i>	overall look
<i>play(recordingname)</i>	play edits from <i>recordingname</i>
<i>by(varlist, ...)</i>	repeat for subgroups
<i>nodraw</i>	suppress display of graph
<i>name(name, ...)</i>	specify name for graph
<i>saving(filename, ...)</i>	save graph in file
<i>advanced_options</i>	difficult to explain

## Options

*added\_line\_options* specify that horizontal or vertical lines be drawn on the graph; see [G-3] [added\\_line\\_options](#). If your interest is in drawing grid lines through the plot region, see *axis\_options* below.

*added\_text\_options* specifies text to be displayed on the graph (inside the plot region); see [G-3] [added\\_text\\_options](#).

*axis\_options* specify how the axes are to look, including values to be labeled or ticked on the axes. These options also allow you to obtain logarithmic scales and grid lines. See [G-3] [axis\\_options](#).

*title\_options* allow you to specify titles, subtitles, notes, and captions to be placed on the graph; see [G-3] *title\_options*.

*legend\_options* specifies whether a legend is to appear and allows you to modify the legend's contents. See [G-3] *legend\_options*.

*scale(#)* specifies a multiplier that affects the size of all text, markers, and line widths in a graph. *scale(1)* is the default, and *scale(1.2)* would make all text, markers, and line widths 20% larger. See [G-3] *scale\_option*.

*region\_options* allow outlining the plot region (such as placing or suppressing a border around the graph), specifying a background shading for the region, and controlling the graph size. See [G-3] *region\_options*.

*aspect\_option* allows you to control the relationship between the height and width of a graph's plot region; see [G-3] *aspect\_option*.

*scheme(schemename)* specifies the overall look of the graph; see [G-3] *scheme\_option*.

*play(recordingname)* applies the edits from *recordingname* to the graph, where *recordingname* is the name under which edits previously made in the Graph Editor have been recorded and stored. See *Graph Recorder* in [G-1] *Graph Editor*.

*by(varlist, ...)* specifies that the plot be repeated for each set of values of *varlist*; see [G-3] *by\_option*.

*nodraw* causes the graph to be constructed but not displayed; see [G-3] *nodraw\_option*.

*name(name[, replace])* specifies the name of the graph. *name(Graph, replace)* is the default. See [G-3] *name\_option*.

*saving(filename[, asis replace])* specifies that the graph be saved as *filename*. If *filename* is specified without an extension, *.gph* is assumed. *asis* specifies that the graph be saved just as it is. *replace* specifies that, if the file already exists, it is okay to replace it. See [G-3] *saving\_option*.

*advanced\_options* are not so much advanced as they are difficult to explain and are rarely used. They are also invaluable when you need them; see [G-3] *advanced\_options*.

## Remarks and examples

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

The above options may be used with any of the *twoway* plottypes—see [G-2] *graph twoway*—for instance,

```
. twoway scatter mpg weight, by(foreign)
. twoway line l1 year, xlabel(,grid) saving(myfile, replace)
```

The above options are options of *twoway*, meaning that they affect the entire *twoway* graph and not just one or the other of the plots on it. For instance, in

```
. twoway lfitci mpg weight, stdf ||
      scatter mpg weight, ms(0) by(foreign, total row(1))
```

the *by()* option applies to the entire graph, and in theory you should type

```
. twoway lfitci mpg weight, stdf ||
      scatter mpg weight, ms(0) ||, by(foreign, total row(1))
```

or

```
. twoway (lfitci mpg weight, stdf)
      (scatter mpg weight, ms(0)), by(foreign, total row(1))
```

to demonstrate your understanding of that fact. You need not do that, however, and in fact it does not matter to which plot you attach the *twoway\_options*. You could even type

```
. twoway lfitci mpg weight, stdf by(foreign, total row(1)) ||
  scatter mpg weight, ms(0)
```

and, when specifying multiple *twoway\_options*, you could even attach some to one plot and the others to another:

```
. twoway lfitci mpg weight, stdf by(foreign, total row(1)) ||
  scatter mpg weight, ms(0) saving(myfile)
```

## Also see

[G-2] [graph twoway](#) — Twoway graphs

[G-3] [advanced\\_options](#) — Rarely specified options for use with graph twoway

[G-3] [axis\\_options](#) — Options for specifying numeric axes

[G-3] [by\\_option](#) — Option for repeating graph command

[G-3] [legend\\_options](#) — Options for specifying legends

[G-3] [name\\_option](#) — Option for naming graph in memory

[G-3] [nodraw\\_option](#) — Option for suppressing display of graph

[G-3] [region\\_options](#) — Options for shading and outlining regions and controlling graph size

[G-3] [saving\\_option](#) — Option for saving graph to disk

[G-3] [scale\\_option](#) — Option for resizing text, markers, and line widths

[G-3] [scheme\\_option](#) — Option for specifying scheme

[G-3] [title\\_options](#) — Options for specifying titles