twoway_options — Options for two-way graphs

Description Syntax Options Remarks and examples Also see

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

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

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 le year, xlabel(,grid) saving(myfile, replace)
```

The above options are options of `twoway`, meaning that they affect the entire two-way 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(O) 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(O) ||, by(foreign, total row(1))
```

or

```
. twoway (lfitci  mpg weight, stdf)
         (scatter mpg weight, ms(O)), 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(O)
```

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(O) saving(myfile)
```

Also see

[G-2] **graph twoway** — Two-way 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