twoway_options — Options for twoway graphs

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
```


Description

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

Options

`added_line_options` specify that horizontal or vertical lines be drawn on the graph; see
[G-3] added línea_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 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(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` — 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