

axis_title_options — Options for specifying axis titles

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Syntax

axis_title_options are a subset of *axis_options*; see [G-3] [axis_options](#). *axis_title_options* control the titling of an axis.

<i>axis_title_options</i>	Description
<code>ytitle(<i>axis_title</i>)</code>	specify <i>y</i> axis title
<code>xtitle(<i>axis_title</i>)</code>	specify <i>x</i> axis title
<code>ttitle(<i>axis_title</i>)</code>	specify <i>t</i> (time) axis title
<code>ztitle(<i>axis_title</i>)</code>	specify contour legend axis title

The above options are *merged-explicit*; see [G-4] [concept: repeated options](#).

where *axis_title* is

`"string" ["string" [...]] [, suboptions]`

<i>suboptions</i>	Description
<code>axis(#)</code>	which axis, $1 \leq \# \leq 9$
<code>prefix</code>	combine options
<code>suffix</code>	combine options
<code>textbox_options</code>	control details of text appearance; see [G-3] textbox_options

Description

axis_title_options specify the titles to appear on axes.

Options

`ytitle(axis_title)`, `xtitle(axis_title)`, and `ttitle(axis_title)` specify the titles to appear on the *y*, *x*, and *t* axes. `ttitle()` is a synonym for `xtitle()`.

`ztitle(axis_title)`; see [Contour axes—ztitle\(\)](#) below.

Suboptions

`axis(#)` specifies to which axis this title belongs and is specified when dealing with multiple *y* axes or multiple *x* axes; see [G-3] [axis_choice_options](#).

`prefix` and `suffix` specify that what is specified in this option is to be added to any previous `xtitle()` or `ytitle()` options previously specified. See [Interpretation of repeated options](#) below.

`textbox_options` specifies the look of the text. See [G-3] [textbox_options](#).

Remarks and examples

axis_title_options are a subset of *axis_options*; see [G-3] *axis_options* for an overview. The other appearance options are

axis_scale_options (see [G-3] *axis_scale_options*)
axis_label_options (see [G-3] *axis_label_options*)

Remarks are presented under the following headings:

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Suppressing axis titles
Interpretation of repeated options
Titles with multiple y axes or multiple x axes
Contour axes—ztitle()

Default axis titles

Even if you do not specify the `ytitle()` or `xtitle()` options, axes will usually be titled. In those cases, `{y|x}title()` changes the title. If an axis is not titled, specifying `{y|x}title()` adds a title.

Default titles are obtained using the corresponding variable's variable label or, if it does not have a label, using its name. For instance, in

```
. twoway scatter yvar xvar
```

the default title for the *y* axis will be obtained from variable `yvar`, and the default title for the *x* axis will be obtained from `xvar`. Sometimes the plottype substitutes a different title; for instance,

```
. twoway lfit yvar xvar
```

labels the *y* axis “Fitted values” regardless of the name or variable label associated with variable `yvar`.

If multiple variables are associated with the same axis, their individual titles (variable label, variable name, or as substituted) are joined, with a slash (/) in between. For instance, in

```
. twoway scatter y1var xvar || line y2var xvar || lfit y1var xvar
```

the *y* axis will be titled

```
y1var_title/y2var_title/Fitted values
```

When many plots are overlaid, this often results in titles that run off the end of the graph.

Overriding default titles

You may specify the title to appear on the *y* axis using `ytitle()` and the title to appear on the *x* axis using `xtitle()`. You specify the text—surrounded by double quotes—inside the option:

```
ytitle("My y title")
```

```
xtitle("My x title")
```

For `scatter`, the command might read

```
. scatter yvar xvar, ytitle("Price") xtitle("Quantity")
```

Specifying multiline titles

Titles may include more than one line. Lines are specified one after the other, each enclosed in double quotes:

```
ytitle("First line" "Second line")
xtitle("First line" "Second line" "Third line")
```

Suppressing axis titles

To eliminate an axis title, specify `{ y | x }title("")`.

To eliminate the title on a second, third, ..., axis, specify `{ y | x }title("", axis(#))`. See *Titles with multiple y axes or multiple x axes* below.

Interpretation of repeated options

`xtitle()` and `ytitle()` may be specified more than once in the same command. When you do that, the rightmost one takes effect.

See *Interpretation of repeated options* in [G-3] *axis_label_options*. Multiple `ytitle()` and `xtitle()` options work the same way. The twist for the title options is that you specify whether the extra information is to be prefixed or suffixed onto what came before.

For instance, pretend that `sts graph` produced the x axis title “analysis time”. If you typed

```
. sts graph, xtitle("My new title")
```

the title you specified would replace that. If you typed

```
. sts graph, xtitle("in days", suffix)
```

the x axis title would be (first line) “analysis time” (second line) “in days”. If you typed

```
. sts graph, xtitle("Time to failure", prefix)
```

the x axis title would be (first line) “Time to failure” (second line) “analysis time”.

Titles with multiple y axes or multiple x axes

When you have more than one y or x axis (see [G-3] *axis_choice_options*), remember to specify the `axis(#)` suboption to indicate to which axis you are referring.

Contour axes—ztitle()

The `ztitle()` option is unusual in that it applies not to axes on the plot region, but to the axis that shows the scale of a *contour legend*. It has effect only when the graph includes a *twoway contour plot*; see [G-2] *graph twoway contour*. In all other respects, it acts like `xtitle()`, `ytitle()`, and `ttitle()`.

Also see

[G-3] *axis_label_options* — Options for specifying axis labels

[G-3] *axis_options* — Options for specifying numeric axes

[G-3] *axis_scale_options* — Options for specifying axis scale, range, and look

[G-4] *text* — Text in graphs