

<i>aspect_option</i> — Option for controlling the aspect ratio of the plot region
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Description	Quick start	Syntax	Option
Suboption	Remarks and examples	Reference	Also see

## Description

The `aspectratio()` option controls the relationship between the height and width of a graph's plot region. For example, when `# = 1`, the height and width will be equal (their ratio is 1), and the plot region will be square.

## Quick start

Make the plot region square by specifying an aspect ratio of 1

```
graph_command ... , ... aspect(1)
```

Make the plot region twice as tall as it is wide

```
graph_command ... , ... aspect(2)
```

Make the plot region twice as wide as it is tall

```
graph_command ... , ... aspect(.5)
```

## Syntax

<i>aspect_option</i>	Description
<code>aspectratio(# [ , <i>pos_option</i> ])</code>	set plot region aspect ratio to <code>#</code>

<i>pos_option</i>	Description
<code>placement(<i>compassdirstyle</i>)</code>	placement of plot region

## Option

`aspectratio(# [ , pos_option ])` specifies the aspect ratio and, optionally, the placement of the plot region.

## Suboption

`placement(compassdirstyle)` specifies where the plot region is to be placed to take up the area left over by restricting the aspect ratio. See [G-4] *compassdirstyle*.

## Remarks and examples

The `aspectratio(#)` option constrains the ratio of the plot region to `#`. So, if `#` is 1, the plot region is square; if it is 2, the plot region is twice as tall as it is wide; and, if it is `.25`, the plot region is one-fourth as tall as it is wide. The most common use is `aspectratio(1)`, which produces a square plot region.

The overall size of the graph is not changed by the `aspectratio()` option. Thus constraining the aspect ratio will generally leave some additional space around the plot region in either the horizontal or vertical dimension. By default, the plot region will be centered in this space, but you can use the `placement()` option to control where the plot region is located. `placement(right)` will place the plot region all the way to the right in the extra space, leaving all the blank space to the left; `placement(top)` will place the plot region at the top of the extra space, leaving all the blank space at the bottom; `placement(left)` and `placement(right)` work similarly.

Specifying an aspect ratio larger than the default for a graph causes the width of the plot region to become narrower. Conversely, specifying a small aspect ratio causes the plot region to become shorter. Because titles and legends can be wider than the plot region, and because most [schemes](#) do not allow titles and legends to span beyond the width of the plot region, this can sometimes lead to surprising spacing of some graph elements; for example, axes may be forced away from their plot region. If this occurs, the spacing can be improved by adding the `span` suboption to the `title()`, `subtitle()`, `legend()`, or other options. The `span` option must be added to each element that is wider than the plot region. See *Spanning* in [\[G-3\] title\\_options](#) for a diagram.

## Reference

Cox, N. J. 2004. [Stata tip 12: Tuning the plot region aspect ratio](#). *Stata Journal* 4: 357–358.

## Also see

- [\[G-2\] graph bar](#) — Bar charts
- [\[G-2\] graph box](#) — Box plots
- [\[G-2\] graph dot](#) — Dot charts (summary statistics)
- [\[G-2\] graph twoway](#) — Twoway graphs