

Description

`graph display` redisplay a graph stored in memory.

Quick start

Display graph `mygraph` stored in memory

```
graph display mygraph
```

Increase the size of all text, markers, and line widths by 50%

```
graph display mygraph, scale(1.5)
```

Resize `mygraph` to 3 inches by 2 inches

```
graph display mygraph, ysize(2) xsize(3)
```

Apply the *Stata Journal* scheme to the overall look of `mygraph`

```
graph display mygraph, scheme(sj)
```

Same as above, but for the graph currently in the Graph window

```
graph display, scheme(sj)
```

Menu

Graphics > Manage graphs > Make memory graph current

Syntax

```
graph display [name] [ , options]
```

If *name* is not specified, the name of the current graph—the graph displayed in the Graph window—is assumed.

<i>options</i>	Description
<u>ysize</u> (#)	change height of graph (in inches)
<u>xsize</u> (#)	change width of graph (in inches)
<u>margins</u> (<i>marginstyle</i>)	change outer margins
<u>scale</u> (#)	resize text, markers, and line widths
<u>scheme</u> (<i>schemename</i>)	change overall look

Options

ysize(#) and xsize(#) specify in inches the height and width of the entire graph (also known as the *available area*). The defaults are the original height and width of the graph. These two options can be used to change the aspect ratio; see [Changing the size and aspect ratio](#) under *Remarks and examples* below.

margins(*marginstyle*) specifies the outer margins: the margins between the outer graph region and the inner graph region as shown in the diagram in [G-3] [region_options](#). See [Changing the margins and aspect ratio](#) under *Remarks and examples* below, and see [G-4] [marginstyle](#).

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 and markers 20% larger. See [G-3] [scale_option](#).

scheme(*schemename*) specifies the overall look of the graph. The default is the original scheme with which the graph was drawn. See [Changing the scheme](#) under *Remarks and examples* below, and see [G-3] [scheme_option](#).

Remarks and examples

See [G-2] [graph manipulation](#) for an introduction to the graph manipulation commands.

Remarks are presented under the following headings:

[Changing the size and aspect ratio](#)
[Changing the margins and aspect ratio](#)
[Changing the scheme](#)

Changing the size and aspect ratio

Under *Controlling the aspect ratio* in [G-3] *region_options*, we compared

```
. use https://www.stata-press.com/data/r19/auto  
(1978 automobile data)  
. scatter mpg weight
```

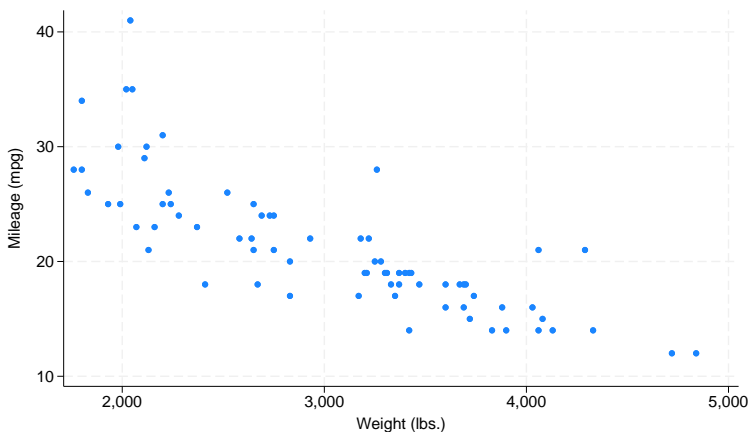
with

```
. scatter mpg weight, ysize(5)
```

We used the scheme `s2gcolor` in that entry, but we will use the default scheme `stgcolor` in the examples below.

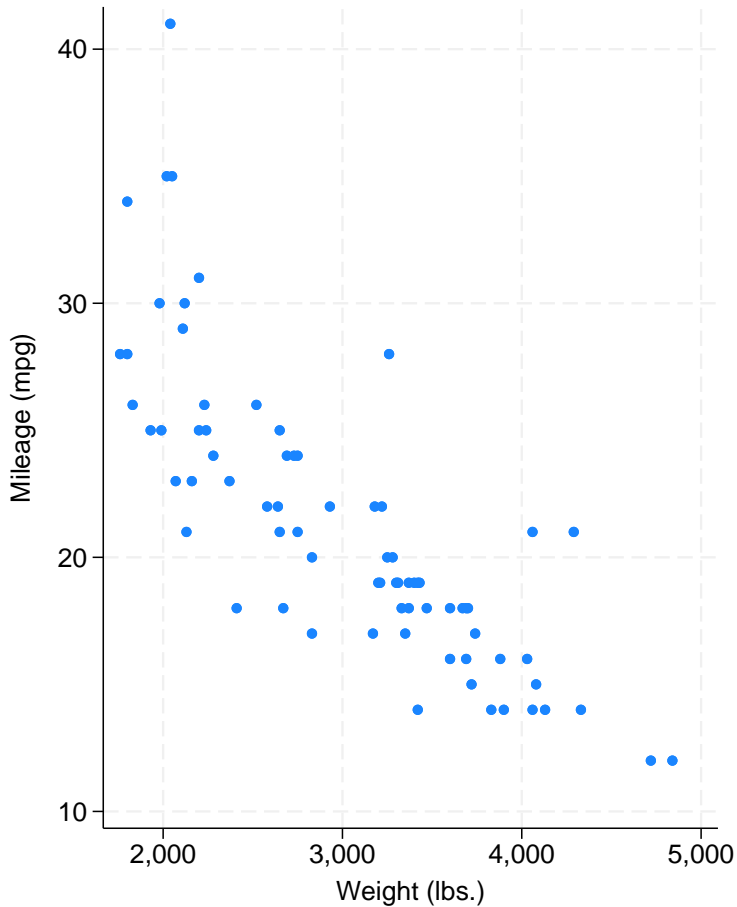
Note that we do not need to reconstruct the graph merely to change the `ysize()` or `xsize()`. We could start with some graph

```
. scatter mpg weight
```



and then we could redisplay it with different `ysize()` and `xsize()` or both values:

```
. graph display, ysize(5)
```



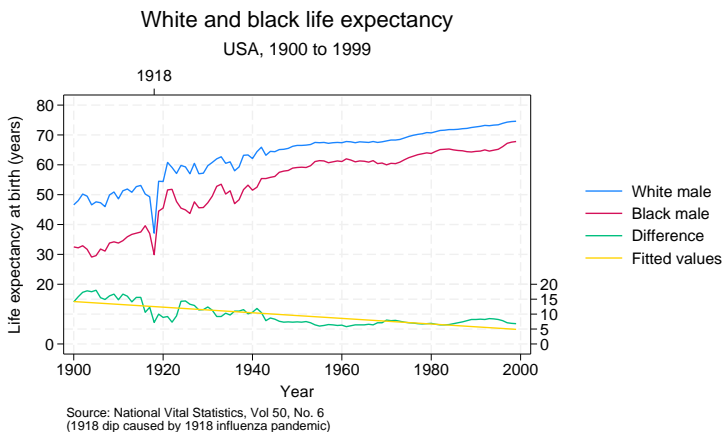
In this way, we can quickly find the best `ysize()` and `xsize()` values. This works particularly well when the graph we have drawn required many options:

```
. use https://www.stata-press.com/data/r19/uslifeexp, clear
(US life expectancy, 1900-1999)

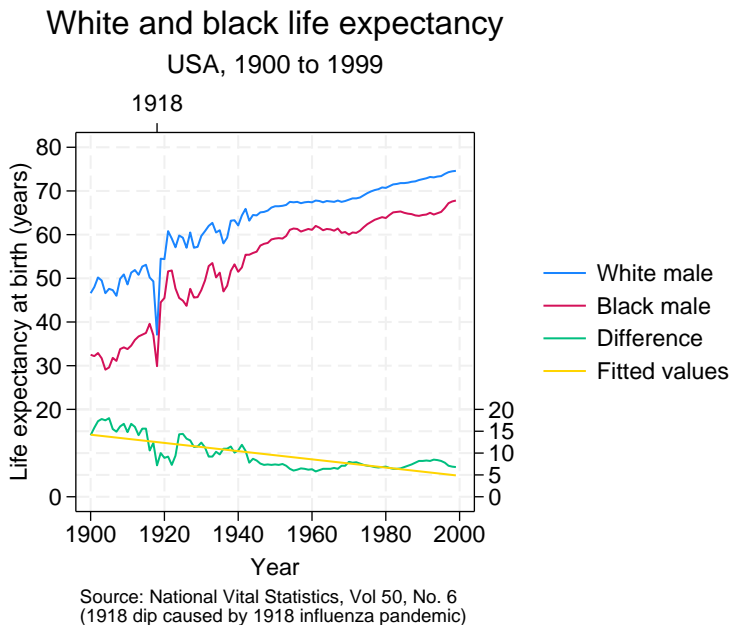
. generate diff = le_wm - le_bm

. label var diff "Difference"

. line le_wm year, yaxis(1 2) xaxis(1 2)
  || line le_bm year
  || line diff year
  || lfit diff year
  ||,
    ytitle("", axis(2))
    xtitle("", axis(2))
    xlabel(1918, axis(2))
    ylabel(0(5)20, axis(2) grid)
    ylabel(0 20(10)80)
    ytitle("Life expectancy at birth (years)")
    title("White and black life expectancy")
    subtitle("USA, 1900 to 1999")
    note("Source: National Vital Statistics, Vol 50, No. 6"
        "(1918 dip caused by 1918 influenza pandemic)")
    legend(label(1 "White male") label(2 "Black male"))
```



```
. graph display, ysize(3.5)
```



Also, we can change sizes of graphs we have previously drawn and stored on disk:

```
. graph use ...
. graph display, ysize(...) xsize(...)
```

You may not remember what `ysize()` and `xsize()` values were used (they are `ysize(4.5)` and `xsize(7.5)` from the `stcolor` scheme). Then use `graph describe` to describe the file; it reports the `ysize()` and `xsize()` values; see [\[G-2\] graph describe](#).

Changing the margins and aspect ratio

We can change the size of a graph or change its margins to control the aspect ratio; this is discussed in [Controlling the aspect ratio](#) of [\[G-3\] region_options](#), which gives the example

```
scatter mpg weight, by(foreign, total graphregion(margin(1+10 r+10)))
```

This too can be done in two steps:

```
. scatter mpg weight, by(foreign, total)
. graph display, margins(1+10 r+10)
```

`graph display's` `margin()` option corresponds to `graphregion(margin())` used at the time we construct graphs.

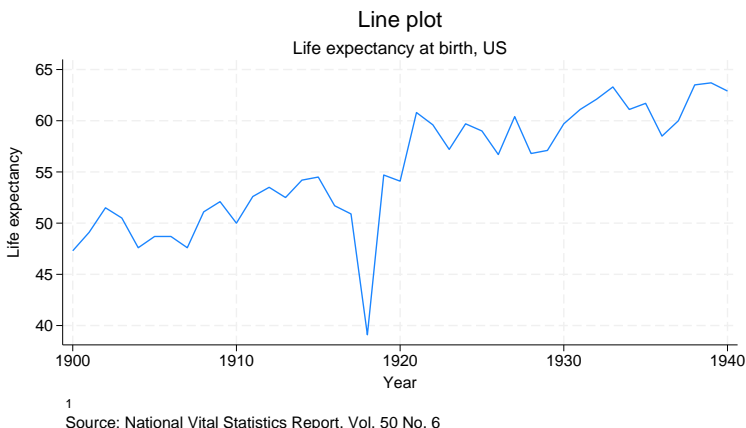
Changing the scheme

Schemes determine the overall look of a graph, such as where axes, titles, and legends are placed and the color of the background; see [G-4] [Schemes intro](#). Changing the scheme after a graph has been constructed sometimes works well and sometimes works poorly.

Here is an example in which it works well:

```
. use https://www.stata-press.com/data/r19/uslifeexp2, clear
(US life expectancy, 1900–1940)

. line le year, sort
    title("Line plot")
    subtitle("Life expectancy at birth, US")
    note("1")
    caption("Source: National Vital Statistics Report,
    Vol. 50 No. 6")
```



```
. graph display, scheme(economist)
```



For suggested citations, see the FAQ on [citing Stata documentation](#).