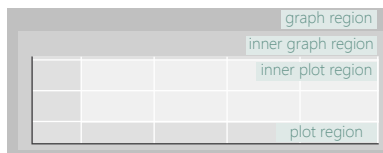


# Plotting in Stata 14.1

## Customizing Appearance

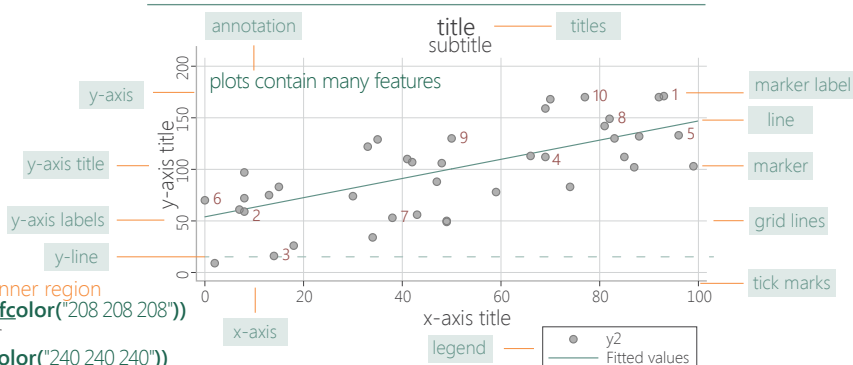
For more info see Stata's reference manual ([stata.com](http://stata.com))



**scatter** price mpg, **graphregion**(fcolor("192 192 192") ifcolor("208 208 208"))  
specify the fill of the background in RGB or with a Stata color

**scatter** price mpg, **plotregion**(fcolor("224 224 224") ifcolor("240 240 240"))  
specify the fill of the plot background in RGB or with a Stata color

### ANATOMY OF A PLOT



### SYMBOLS

**marker** arguments for the plot objects (in green) go in the options portion of these commands (in orange)  
for example:  
**scatter** price mpg, **xline**(20, **width**(vthick))

### LINE / BORDERS

**line** **marker** **axes** **tick marks**  
**<line options>** **<marker options>** **xscale(...)** **yscale(...)**  
**xline(...)** **ylines(...)** **legend** **legend(region(...))**

### TEXT

**marker label** **titles** **axis labels**  
**<marker options>** **title(...)** **xlabel(...)**  
**annotation** **subtitle(...)** **xtitle(...)**  
**text(...)** **ytitle(...)** **legend** **legend(...)**

**mcOLOR**("145 168 208") **mcOLOR**(none)  
specify the fill and stroke of the marker in RGB or with a Stata color

**mfcolor**("145 168 208") **mfcolor**(none)  
specify the fill of the marker

**lcolor**("145 168 208") **lcolor**(none)  
specify the stroke color of the line or border

**mlcolor**("145 168 208")  
**tlcolor**("145 168 208")  
**glcolor**("145 168 208")

**color**("145 168 208") **color**(none)  
specify the color of the text

**mlabcolor**("145 168 208")  
**labcolor**("145 168 208")

**msize**(medium) specify the marker size:

ehuge ● medlarge  
vhuge ● medium  
huge ● medsmall  
vlarge ● small  
large ● vsmall  
tiny  
vtiny

**lwidth**(medthick) **marker** **mlwidth**(thin)  
specify the thickness (stroke) of a line: **tlwidth**(thin) **glwidth**(thin)

vvthick — medthin  
vthick — thin  
vthick — vthin  
thick — vvthin  
medthick — vvthin  
medium — none

**size**(medsmall) specify the size of the text:

**marker label** **mlabsize**(medsmall)  
**axis labels** **labsize**(medsmall)

28 pt. vhuge 10 pt. medsmall  
20 pt. huge 8 pt. small  
16 pt. vlarge 6 pt. vsmall  
14 pt. large 4 pt. tiny  
12 pt. medlarge 2 pt. half\_tiny  
11 pt. medium 1 pt. third\_tiny  
1 pt. minuscule

**msymbol**(Dh) specify the marker symbol:

● O ◆ D ▲ T ■ S  
● o ◆ d ▲ t ■ s  
○ Oh ◇ Dh △ Th □ Sh  
○ oh ◇ dh △ th □ sh  
+ + × X · p none i

**line** **axes** **lpattern**(dash) **specify the line pattern**  
**grid lines** **glpattern**(dash)

— solid — longdash — longdash\_dot  
- - - dash ···· shortdash ···· shortdash\_dot  
···· dot ··· dash\_dot blank

**axes** **noline** **axes** **off** no axis/labels  
**tick marks** **noticks** **tick marks** **length**(2)  
**grid lines** **nogrid** **nogmin** **nogmax**

**marker label** **mlabel**(foreign)  
label the points with the values of the foreign variable

**axis labels** **no labels**  
no axis labels

**axis labels** **format**(%12.2f)  
change the format of the axis labels

**legend** **off**  
turn off legend

**legend** **label**(# "label")  
change legend label text

**jitter**(#) **jitterseed**(#)  
randomly displace the markers set seed

**tick marks** **xlabel**(#10, **tposition**(crossing))  
number of tick marks, position (outside | crossing) | inside)

**marker label** **mlabposition**(5)  
label location relative to marker (clock position: 0 – 12)

## Apply Themes

Schemes are sets of graphical parameters, so you don't have to specify the look of the graphs every time.

### USING A SAVED THEME

**twoway scatter** mpg price, **scheme**(customTheme)

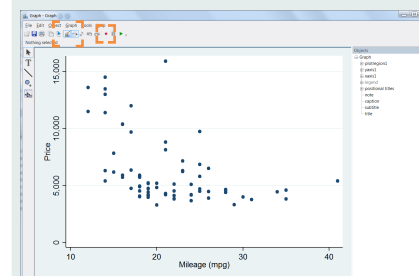
**help scheme entries** Create custom themes by saving options in a .scheme file  
see all options for setting scheme properties

**adopath ++** "~/<location>/StataThemes"  
set path of the folder (StataThemes) where custom .scheme files are saved

**set scheme** customTheme, **permanently**  
change the theme

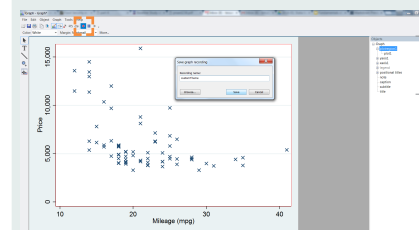
### USING THE GRAPH EDITOR

**twoway scatter** mpg price, **play**(graphEditorTheme)



Select the Graph Editor

Click Record



Double click on symbols and areas on plot, or regions on sidebar to customize

Unclick Record

Save theme as a .grec file

## Save Plots

**graph twoway scatter y x, saving**("myPlot.gph") **replace**  
save the graph when drawing

**graph save** "myPlot.gph", **replace**  
save current graph to disk

**graph combine** plot1.gph plot2.gph...  
combine 2+ saved graphs into a single plot

**graph export** "myPlot.pdf", **as**(.pdf)  
export the current graph as an image file  
see options to set size and resolution