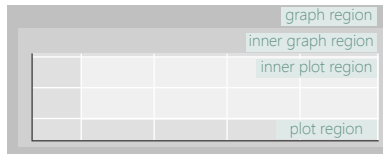


Plotting in Stata 14.1

Customizing Appearance

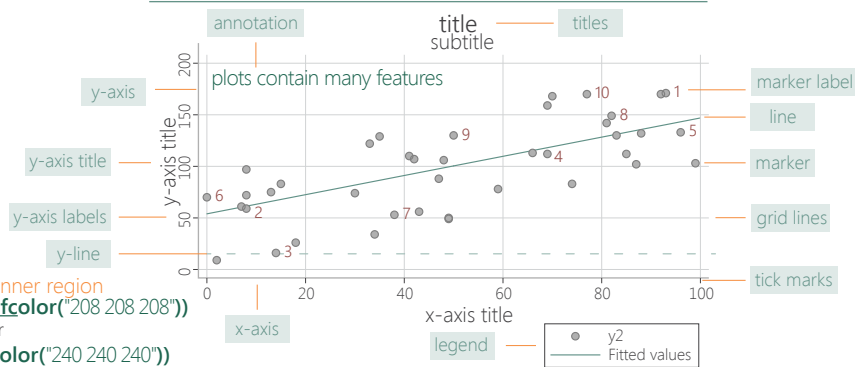
For more info see Stata's reference manual (stata.com)



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(...)** **ylabel(...)**
text(...) **xtitle(...)** **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)

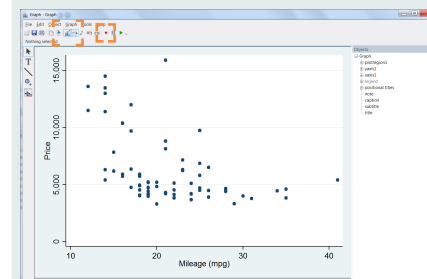
help scheme entries Create custom themes by saving options in a .scheme file
see all options for setting scheme properties

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

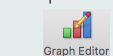
set scheme customTheme, **permanently**
change the theme

USING THE GRAPH EDITOR

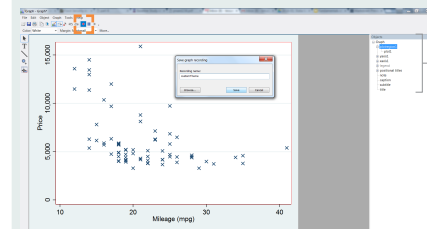
twoway scatter mpg price, **play**(graphEditorTheme)



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