Title

> **graph twoway scatteri —** Scatter with immediate arguments

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Description

scatteri is an immediate version of twoway scatter; see [U] **19 Immediate commands** and [G-2] **graph twoway scatter**. scatteri is intended for programmer use but can be useful interactively.

Quick start

An immediate scatterplot with a single point at $x = 1$ and $y = 2$

    twoway scatteri 2 1

Add label "Note this point" at 6 o'clock

    twoway scatteri 2 1 (6) "Note this point"

Add a point at $(3, 1)$ with label "This point too" at 12 o'clock

    twoway scatteri 2 1 (6) "Note this point" 1 3 (12) "This point too"

Highlight the point at $(15, 22)$ on a scatterplot of y versus x

    twoway scatter y x || scatteri 22 15 (2) "Note this point"

Same as above, but show only the label

    twoway scatter y x || scatteri 22 15 (2) "Note this point", ///
        msymbol(none)

Menu

Graphics > Twoway graph (scatter, line, etc.)

Syntax

> <u>two</u>way scatteri *immediate_values* $\big[$, *options* $\big]$

where *immediate_values* is one or more of

> $\#_y \ \#_x \ \big[\ (\#_{\text{clockposstyle}})\ \big] \ \big[\ \text{"}\textit{text for label}\text{"}\ \big]$

See [G-4] *clockposstyle* for a description of $\#_{\text{clockposstyle}}$.

Options

options are as defined in [G-2] **graph twoway scatter**, with the following modifications:

If "*text for label*" is specified among any of the immediate arguments, option mlabel() is assumed.

If ($\#_{\text{clockposstyle}}$) is specified among any of the immediate arguments, option mlabvposition() is assumed.

Remarks and examples   stata.com

Immediate commands are commands that obtain data from numbers typed as arguments. Typing

```
. twoway scatteri 1 1  2 2, any_options
```

produces the same graph as typing

```
. clear
. input y x
              y         x
  1. 1 1
  2. 2 2
  3. end
. twoway scatter y x, any_options
```
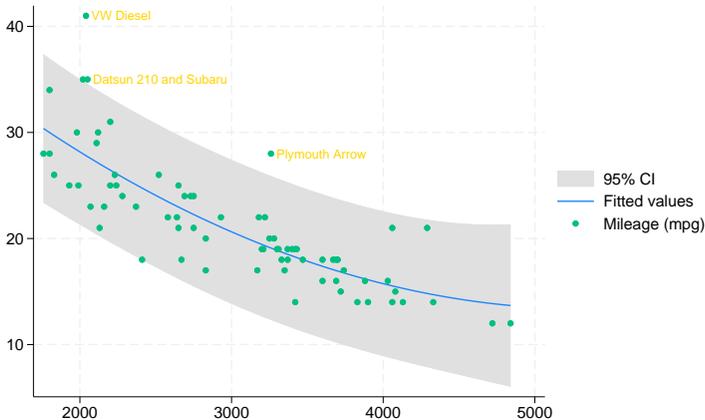
twoway scatteri does not modify the data in memory.

scatteri is intended for programmer use but can be used interactively. In [G-3] *added_text_options*, we demonstrated the use of option text() to add text to a graph:

```
. twoway qfitci  mpg weight, stdf ||
        scatter mpg weight, ms(O)
                text(41 2040 "VW Diesel", place(e))
                text(28 3260 "Plymouth Arrow", place(e))
                text(35 2050 "Datsun 210 and Subaru", place(e))
```

Below we use scatteri to obtain similar results:

```
. twoway qfitci  mpg weight, stdf ||
        scatter mpg weight, ms(O) ||
        scatteri 41 2040 (3) "VW Diesel"
                 28 3260 (3) "Plymouth Arrow"
                 35 2050 (3) "Datsun 210 and Subaru"
                 , msymbol(i) legend(order(1 2 3))
```


We translated text(..., place(e)) to (3), 3 o'clock being the *clockposstyle* notation for the east *compassdirstyle*. Because labels are by default positioned at 3 o'clock, we could omit (3) altogether:

```
. twoway qfitci  mpg weight, stdf ||
        scatter mpg weight, ms(O) ||
        scatteri 41 2040 "VW Diesel"
                 28 3260 "Plymouth Arrow"
                 35 2050 "Datsun 210 and Subaru"
                 , msymbol(i) legend(order(1 2 3))
```

We specified the msymbol(i) option to suppress displaying the marker symbol. We also specified the legend(order(1 2 3)) option to include only the keys from the first three plots in the legend.

❑ Technical note

Programmers: Note carefully scatter's *advanced_option* recast(); see [G-3] *advanced_options*. It can be used to good effect, such as using scatteri to add areas, bars, spikes, and dropped lines.

❑

Also see

[G-2] **graph twoway scatter** — Twoway scatterplots

[U] **19 Immediate commands**

For suggested citations, see the FAQ on citing Stata documentation.