Title

graph twoway scatteri — Scatter with immediate arguments

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Syntax

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

where *immediate_values* is one or more of

$\#_y$ $\#_x$ [($\#$clockposstyle)] ["*text for label*"]

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

Menu

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

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.

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 ($\#$clockposstyle) is specified among any of the immediate arguments, option mlabvposition() is assumed.

Remarks and examples

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
```
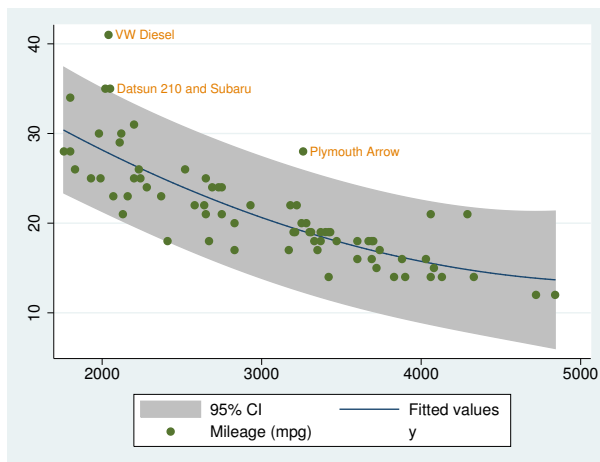
twoway scatteri does not modify the data in memory.

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)
```


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)
```

We specified msymbol(i) option to suppress displaying the marker symbol.

❑ 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**