Title

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graph twoway scatteri — Scatter with immediate arguments

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

```
twoway scatteri immediate_values [ , options ]
```

where *immediate_values* is one or more of

$$\#_y\ \#_x\ \left[\ (\#_{\text{clockposstyle}})\ \right]\ \left[\ \text{"}text\ for\ label\text{"}\ \right]$$

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

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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
```

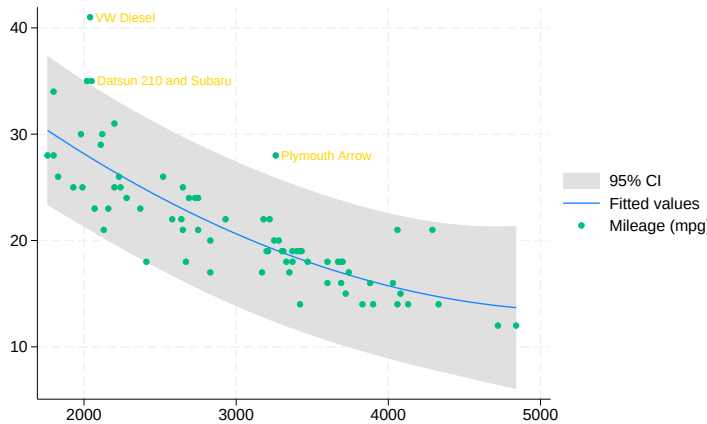
`twoway scatteri` does not modify the data in memory.

`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**