**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"
```

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

\[ y \] \[ x \] \([\#_{\text{clockposstyle}}]\) \[ "text for label"\]

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 (#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

\[ \text{. twoway scatteri 1 1 2 2, any_options} \]

produces the same graph as typing

\[ \text{. clear} \]
\[ \text{. input y x} \]
\[ \text{. 1 1} \]
\[ \text{. 2 2} \]
\[ \text{. end} \]
\[ \text{. twoway scatter y x, any_options} \]

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:
Below we use `scatteri` to obtain similar results:

```stata
. 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:

```stata
. 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.

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**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.

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**Also see**

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

[U] 19 Immediate commands