

graph twoway pcarrowi — Twoway pcarrow with immediate arguments

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Description

`pcarrowi` is an immediate version of `twoway pcarrow`; see [\[U\] 19 Immediate commands](#) and [\[G-2\] graph twoway pcarrow](#). `pcarrowi` is intended for programmer use but can be useful interactively.

Quick start

Directional arrow plot from (5, 1) to (4, 7)

```
twoway pcarrowi 1 5 7 4
```

Overlay arrow plot on a scatterplot of observed values of `x` and `y`

```
twoway scatter y x || pcarrowi 36 22 40 21
```

As above, labeling the arrow “My label” at 2 o’clock

```
twoway scatter y x || pcarrowi 36 22 40 21 (2) "My label"
```

As above, but specify a large font for the label and place label near the arrowhead

```
twoway scatter y x || pcarrowi 36 22 40 21 (2) "My label", ///
mlabsize(large) headlabel
```

Specify a large arrowhead and a medium-small barb size

```
twoway pcarrowi 36 22 40 21, msize(large) barbsize(medsmall)
```

Menu

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

Syntax

```
twoway pcarrowi immediate_values [ , options ]
```

where *immediate_values* is one or more of

```
#y1 #x1 #y2 #x2 [ (#clockposstyle) ] [ "text for label" ]
```

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

Options

options are as defined in [G-2] **graph twoway pcarrow**, 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

stata.com

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

```
. twoway pcarrowi 1.1 1.2 1.3 1.4 2.1 2.2 2.3 2.4, any_options
```

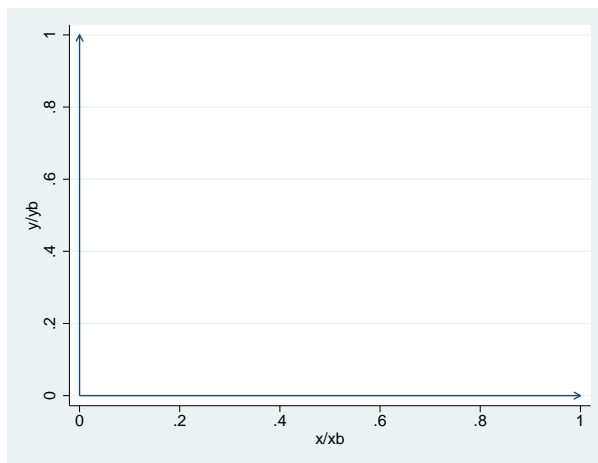
produces the same graph as typing

```
. clear
. input y1 x1 y2 x2
      y1      x1      y2      x2
1. 1.1 1.2 1.3 1.4
2. 2.1 2.2 2.3 2.4
3. end
. twoway pcarrowi y x, any_options
```

twoway pcarrowi does not modify the data in memory.

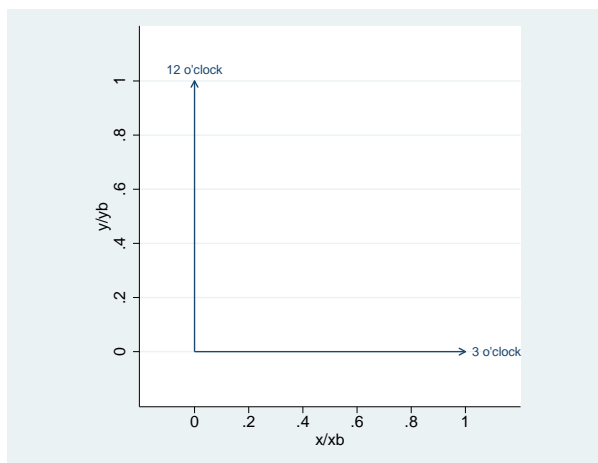
pcarrowi is intended for programmer use but can be used interactively. In *Basic use* of [G-2] **graph twoway pcarrow**, we drew some simple clock hands from data that we input. We can draw the same graph by using **pcarrowi**.

```
. twoway pcarrowi 0 0 0 1 0 0 1 0
```



We can also draw the annotated second example,

```
. twoway pcarrowi 0 0 0 1 (3) "3 o'clock"
0 0 1 0 (12) "12 o'clock",
aspect(1) headlabel plotregion(margin(vlarge))
```



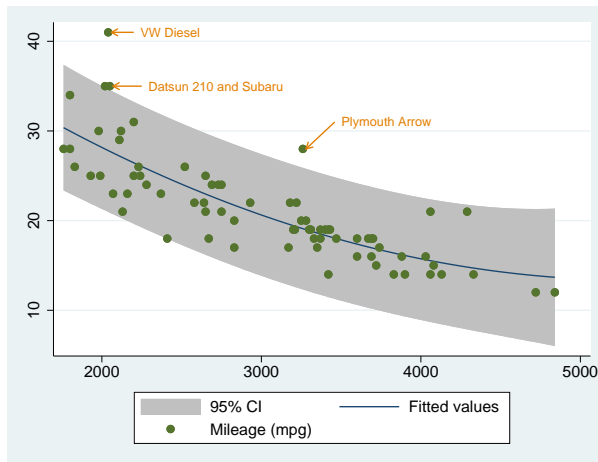
As another example, in [\[G-3\] added_text_options](#), we demonstrated the use of option `text()` to add text to a graph:

```
. twoway qfitci mpg weight, stdf ||
scatter mpg weight, ms(0)
text(41 2040 "VW Diesel", place(e))
text(28 3260 "Plymouth Arrow", place(e))
text(35 2050 "Datsun 210 and Subaru", place(e))
```

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Below we use `pcarrowi` to obtain similar results:

```
. twoway qfitci mpg weight, stdf ||  
  scatter mpg weight, ms(0) ||  
  pcarrowi 41 2200 41 2060 (3) "VW Diesel"  
           28 3460 28 3280 (3) "Plymouth Arrow"  
           35 2250 35 2070 (3) "Datsun 210 and Subaru",  
           legend(order(1 2 3))
```



Also see

[G-2] [graph twoway](#) — Twoway graphs

[G-2] [graph twoway pcarrow](#) — Paired-coordinate plot with arrows

[G-2] [graph twoway scatteri](#) — Scatter with immediate arguments

[U] [19 Immediate commands](#)