Syntax

```
twoway pci immediate_values [, options]
```

where `immediate_values` is one or more of

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


Menu

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

Description

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

Options

`options` are as defined in [G-2] `graph twoway pcspike`, 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.

Also see the `marker_options` defined in [G-2] `graph twoway pccapsym` if the `recast()` option is used to change the spikes into a paired-coordinate plot that plots markers.

Remarks and examples

Immediate commands are commands that obtain data from numbers typed as arguments. `twoway pci` does not modify the data in memory.

`pci` is intended for programmer use but can be used interactively. We can combine a `pci` plot with other `twoway` plots to produce a quick diagram.
We can improve the annotation with

```stata
. twoway function y = -x^2, range(-2 2) ||
   pci 0 1 0 -1 "Tangent", recast(pccapsym) msymbol(i) ||
   pcarrowi 1.2 .5 0.05 0 "Maximum at x=0",
   legend(off) title("Characteristics of y = -x^2")
```

![Graph showing the characteristics of the function $y = -x^2$ with annotations.]
A slightly more whimsical example is

```
. twoway pci 2 0 2 6 4 0 4 6 0 2 6 2 0 4 6 4 ||
   scatteri 5 1 3 3, msize(ehuge) ms(X) ||
   scatteri 5 5 1 5, msize(ehuge) ms(Oh) legend(off)
```

![Graph](image)

*Technical note*

Programmers: Note carefully `twoway`'s `advanced_option recast();` see `[G-3] advanced_options`. It can be used to good effect, such as using `pci` to add marker labels.

*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`