Syntax

twoway pcscatter  
y1var  x1var  y2var  x2var [   if   ] [ in   ]   [,   options   ]

_options_ Description

marker_options     change look of markers (color, size, etc.)
marker_label_options add marker labels; change look or position
headlabel          label second coordinate, not first
vertical            orient plot naturally; the default
horizontal          orient plot transposing _y_ and _x_ values
axis_choice_options associate plot with alternative axis
twoway_options     titles, legends, axes, added lines and text, by, regions, name,  
                    aspect ratio, etc.

All explicit options are _unique_; see [G-4] _concept: repeated options_.

Menu

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

Description

twoway pcscatter draws markers for each point designated by (_y1var, _x1var_) and for each point  
designated by (_y2var, _x2var_).

Options

marker_options specify how the markers look, including shape, size, color, and outline; see  
[G-3] _marker_options_. The same marker is used for both sets of points.

marker_label_options specify if and how the markers are to be labeled; see [G-3] _marker_label_options_.

headlabel specifies that labels be drawn on the markers of the (_y2var, _x2var_) points rather than  
on the markers of the (_y1var, _x1var_) points. By default, when the _mlabel()_ option is specified,  
labels are placed on the points for the first two variables—_y1var_ and _x1var_. headlabel moves  
the labels from these points to the points for the second two variables—_y2var_ and _x2var_.

vertical and horizontal specify whether the _y_ and _x_ coordinates are to be swapped before  
plotting—vertical (the default) does not swap the coordinates, whereas horizontal does.
These options are rarely used when plotting only paired-coordinate data; they can, however, be used to good effect when combining paired-coordinate plots with range plots, such as \texttt{twoway rspike} or \texttt{twoway rbar}; see \cite{G-2} \texttt{graph twoway rspike} and \cite{G-2} \texttt{graph twoway rbar}.

\texttt{axis\_choice\_options} associate the plot with a particular \texttt{y} or \texttt{x} axis on the graph; see \cite{G-3} \texttt{axis\_choice\_options}.

\texttt{twoway\_options} are a set of common options supported by all \texttt{twoway} graphs. These options allow you to title graphs, name graphs, control axes and legends, add lines and text, set aspect ratios, create graphs over by() groups, and change some advanced settings. See \cite{G-3} \texttt{twoway\_options}.

**Remarks and examples**

Visually, there is no difference between

\begin{verbatim}
. twoway pcscatter y1var x1var y2var x2var
\end{verbatim}

and

\begin{verbatim}
. twoway scatter y1var x1var || scatter y2var x2var, pstyle(p1)
\end{verbatim}

though in some cases the former is more convenient and better represents the conceptual structure of the data.

The two scatters are presented in the same overall style, meaning that the markers (symbol shape and color) are the same.

**Also see**

\cite{G-2} \texttt{graph twoway} — Twoway graphs

\cite{G-2} \texttt{graph twoway pcarrow} — Paired-coordinate plot with arrows

\cite{G-2} \texttt{graph twoway pccapsym} — Paired-coordinate plot with spikes and marker symbols

\cite{G-2} \texttt{graph twoway pci} — Twoway paired-coordinate plot with immediate arguments

\cite{G-2} \texttt{graph twoway pcespike} — Paired-coordinate plot with spikes

\cite{G-2} \texttt{graph twoway rscatter} — Range plot with markers

\cite{G-2} \texttt{graph twoway scatter} — Twoway scatterplots