Subject: Re: Line-Mouse widget tool
Posted by David Fanning on Thu, 24 Mar 2005 15:50:14 GMT
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Howard S. Cohl writes:

> I would like to build or use a simple pre-developed tool which
> wouuld draw a plot with data points in a certain set of x-y
> (possibly completely different) axes with specific units set by
> the user and is able to interactively draw a "moveable" lines
> on that plot with mouse clicks and notify the user of the positions
> in the data-space of the endpoints of the lines. This widget tool
> should then allow the user to to slightly alter the positions of
> the endpoints of the drawn lines and to tell the user specifically
> (to within a a user specified number of decimal places) where in
> the data space the endpoints are currently located, in real time.
> I would like this tool to be able to work with two separate lines,
> but I guess one would be enough if only that was possible.
>
> It would basically allow me to more easliy determine positions
> in a data space which I have been having to do interactively
> which takes a long time. Any ideas anybody?

Well, as it happens, my Catalyst Library has this functionality
built into it. It would take perhaps an hour to throw this
type of application together, I think. Call me if you are
interested. It wouldn't be free, but it wouldn't be expensive,
either. :-)

You can learn more about the Catalyst Library here and download
an example program. The Arrow annotation tool (on the last tab)
does what you want. Right click on an arrow after you draw it,
and choose "Other Properties". Now you can observe the arrow
endpoints as you draw the arrow and its endpoints in the window.
This arrow uses a normalized coordinate system, but any object
in the Catalyst Library can use whatever coordinate system you
like. All we have to do it attach the arrow to the coordinate
system of your plot.

   http://www.dfanning.com/tips/catlib.html

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/