
Subject: Re: Pan/Zoom Line Plots with Coyote Graphics

Posted by [Fabzi](#) on Tue, 22 May 2012 10:49:43 GMT

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Hi David,

Nice! Retirement seems to inspire you ;-)

The linestyle keyword doesn't work: `cgZPlot, cgDemoData(1), LINESTYLE=1`

Will it be possible some day to make an overplot or to add a legend to the plot, or not?

Thanks a lot!

Fab

On 05/21/2012 11:11 PM, David Fanning wrote:

> David Fanning writes:

>

>> At my new job, we had a need to be able to zoom into a

>> lot of data very quickly and then pan around the data

>> to see what points are in the immediate vicinity.

>

> I modified this Zoom/Pan program this morning to add

> more functionality. There is now a multiple REDO functionality

> to go along with the multiple UNDO functionality that was

> previously in the program.

>

> Also, I added the ability to "adjust" the Y range of the

> zoomed-in plot, to accommodate the minimum and maximum

> data values of the data in the X range view of the data.

> Combined with the UNDO/REDO, this gives you a way to zoom

> into the data very closely, but to back out to see an "overview"

> of the actual data in the view's X range, then UNDO that to return to

> your close-in view of the data itself. The data adjustment,

> UNDO, and REDO can be done with buttons in the pull-down menu

> or by using accelerator keys (very fast!!). We use this

> to good effect with lidar data.

>

> I also realized that people might want to use this

> functionality in their own widget programs. (So you could

> look at multiple files, for example.) So, I have added a

> PARENT keyword that allows you to specify your own parent

> widget for this display window. Essentially, this program

> becomes an interactive Zoom/Pan line plot window in your

> own program. (It is a compound widget object, if you like.)

> Here is a very simplified program that demonstrates how to

```
> do this.  
>  
> PRO Test  
> tlb = Widget_Base(Title='My Program')  
> cgZPlot, cgDemodata(1), PSYM=2, Color='dodger blue', Parent=tlb  
> Widget_Control, tlb, /Realize  
> Widget_Control, 'myprogram', tlb, /NoBlock  
> END  
>  
> You can download the updated program here:  
>  
> http://www.idlcoyote.com/programs/cgzplot.pro  
>  
> Cheers,  
>  
> David  
>  
>  
>
```
