
Subject: Re: Multiple plots on Object graphics
Posted by [David Fanning](#) on Fri, 09 Jun 2006 19:38:33 GMT
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hyperjiver@yahoo.com writes:

- > I am trying to draw multiple ROIs using XROI and everytime an ROI is
- > drawn, I need to generate a plot. I modified the XROI.pro program to
- > add a Draw widget.
- >
- > Everytime I draw a ROI, I want to plot in the draw widget. The next
- > plot should also be in the same window and rescale itself according to
- > the new values and show both the plots. Anytime I delete an ROI I want
- > the respective plot to be deleted as well.
- >
- > Can anybody please help??

This is a good project for an intermediate IDL programming course. In fact, I'll see if I can get some of the participants in my upcoming UK courses to write this for us. :-)

I would do this with direct graphics objects. Create a "plot" object, which is simple enough. It just draws the plot with a particular color, linestyle, and symbol when its DRAW method is called. Then create a "window" object which is just a draw widget subclassed from an IDL_Container object. The DRAW method of the window object would have some notion of a "grid" of plots. This is nothing more than a way to set up the number of columns and rows required for X number of plots.

When the DRAW method of the window is called, it counts how many plot objects have been added to it, calculates its grid (I'm sure I have done this multiple times in the past!), and then sets !P.MULTI appropriately and calls the DRAW methods of all it's children. Viola!
Plots on the page!

When a plot is removed from the window container, the window simply calls its DRAW method again, and everything happens automatically. Gosh, you have *got* to love objects!!

Cheers,

David

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David Fanning, Ph.D.

