
Subject: Re: Object Graphics newbie question

Posted by [Pavel A. Romashkin](#) on Wed, 06 Jun 2001 17:31:47 GMT

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I have a 2D object graphics DISPLAY routine that has add/remove, zoom, name, color change, window linking and ROI capabilities. It can be accessed via <http://spot.colorado.edu/~romashki/idl/display.html>
The only limitaion I can see is, as David pointed out, that there's no way you can efficiently utilize a visual of 10k points that is about 10" wide. Two windows would be a must, and here DISPLAY would be perfect because you can display the same data in two windows, link them, zoom in in one window, and use ROI to make selections that will show up in both windows. Also, if you have to link every data point to another object then you'd have to write something for that. As it stands, DISPLAY does not act in response to clicking on individual points, although modiifications to the code would be minimal to achieve that.

Cheers,
Pavel

Arend Sluis wrote:

>
> I want to make a 2D plot of, say, 10k data points, and each data point
> has associated with it a specific color and a set of secondary data
> points (an emission line spectrum). Since I want to be able to zoom in
> on and move around the data in order to make selection of individual
> data points easier, I thought that Object Graphics would be the way to
> go. However, it is 10k data points, so I clearly need to be careful in
> order to have efficient code.
>
> My first question is: should I be using Object Graphics? I have no feel
> for how complicated it would be to implement the
> zoom/translate/selection features in Direct Graphics.
>
> My second question is: Suppose I should use Object Graphics, should I
> use IDLgrPolygon for each data point, or should I try to do this using
> IDLgrPlot with a self-defined IDLgrSymbol (I want a filled symbol in
> order to see its color clearly). The "Objects and Object Graphics" IDL
> manual gives both as a possibility, but I am unclear on the relative
> merits of each.
>
> Any help is greatly appreciated.
>
> Arend.
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