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Subject: Object graphics questions

Posted by [Leslie Welser](#) on Fri, 11 Mar 2005 23:27:24 GMT

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I'm writing an IDL application to visualize a pretty complex set of data, and I'm having some trouble with certain aspects of the object oriented programming. I have used direct graphics for a couple of years, but this is my first try at object graphics. I have a GUI set up so that I can load all my data once and then select (with a droplist) one array of data at a time for visualization as a surface that can be rotated. Also on the GUI is a window for viewing the 2-d image of the same dataset. The user can choose a region of interest, and then several 1-d traces are "overplotted" on a sequence of plots, based on the region of interest that was selected. My problems are the following, and I would greatly appreciate any help that the newsgroup could give me on any of these topics:

(1) I am using David Fanning's suggestion for shading the surface by elevation (in object graphics), and this seems to be working ok for some surfaces but badly for others. The problem is that some of my arrays need to be plotted on a log scale, which I gather from previous threads is not an easy thing to do. I followed David's advice on how to do the log plotting, but sometimes I get some really large white lines going across the plot, and I never see any color shading by elevation. I just see a whole bunch of black points, and they aren't exactly where they should be. The problem is that there doesn't seem to be any rhyme or reason to how the different arrays are plotted on a surface (using the same code). Has there been any more work done on improving log axes with object graphics?

(2) Is there a way to use PickData (and output the label) so that the user would ONLY see the exact data points? At the moment, PickData seems to not be zoning in on the actual data points, but just giving an approximate cursor position within the data.

(3) Is it a hard-and-fast rule that if I am viewing a 240x250 image, I just have to set the viewplane rectangle to [0,0,240,250]? I have done that but the results don't look right.

(4) I have followed David Fanning's advice on how to create symbols, but I still don't see any, just a line plot.

Thanks in advance,

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