
Subject: Re: Object graphics color scattergram
Posted by [m.hadfield](#) on Thu, 14 Jun 2001 04:06:15 GMT
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From: "Jeffrey R. Hall" <jeffrey.r.hall@jpl.nasa.gov>
>
> In IDL object graphics, how does one do a scatter plot where
> the points are colored by some set of values?

This was discussed on the group in March 2000 under the title "Object graphic 3d Scatterplot". This Google link may well take you to the thread:

<http://groups.google.com/groups?hl=en&lr=&safe=off&am;ic=1&th=34049d7674974760,15>

Basically the answer is, set the IDLgrSymbol's COLOR property to an array of colours. The symbol will cycle through these colours.

Mark Hadfield
m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>
National Institute for Water and Atmospheric Research

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Posted from clam.niwa.cri.nz [202.36.29.1]
via Mailgate.ORG Server - <http://www.Mailgate.ORG>

Subject: Re: Object graphics color scattergram
Posted by [davidf](#) on Thu, 14 Jun 2001 04:35:10 GMT
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Jeffrey R. Hall (jeffrey.r.hall@jpl.nasa.gov) writes:
>
> In IDL object graphics, how does one do a scatter plot where
> the points are colored by some set of values? Here is an
> example using direct graphics:
>
> DEVICE,PSEUDO=8
> seedx = !pi
> seedy = !pi ^ 2
> x = BYTSCL(RANDOMU(seedx, 100, GAMMA=1))/255.0
> y = BYTSCL(RANDOMN(seedy, 100, GAMMA=1))/255.0
> z = BYTE(x * 255)
> LOADCT,15

> PLOTS,x,y,COLOR=z,PSYM=1,LINestyle=6
>
> I have tried IDLgrPlot with and w/o IDLgrSymbol, and also
> IDLgrPolyline. Lines can be colored, even faded from one
> vertex to the next. But if the lines are omitted then no
> points are drawn, and if IDLgrSymbol is used then they are
> all the same color.
>
> Plus, I need this to be in 24 bit color rather than PSEUDO=8.

I think you just didn't happen onto the correct sequence of polylines and symbols. Here is an example of an object graphics scatterplot that I cobbled together some time ago from my SIMPLE_SURFACE code.

ftp://ftp.dfanning.com/pub/dfanning/outgoing/misc/scatter_surface.pro

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Object graphics color scattergram
Posted by [Jeffrey R. Hall](#) on Thu, 14 Jun 2001 21:52:19 GMT
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And I though I'd covered all the bases before asking.

Thanks for the google pointer, good info.

Jeff

Mark Hadfield wrote:

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> Mark Hadfield
> m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>
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