Subject: 3-D Plotting
Posted by fisher on Mon, 20 Mar 1995 17:52:44 GMT

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I am interested in generating a 3-dimensional plot of 3 independent
variables. I want two of the axes to be logarithmically scaled, the other
linear. Unfortunately, the surface plot routine does not provide the
flexibility I need for this task. I believe that the Z-buffer might
provide an alternative to the surface plot routine, but having not used
Z-buffer much, I am still not certain this approach will work for me. I
would be very grateful if someone could provide me with some insight on how to
approach this problem.

Thanks,
Brad Fisher
fisher@echo.gsfc.nasa.gov

Subject: Re: 3-D plotting
Posted by Liam E. Gumley on Fri, 13 Jul 2001 20:50:24 GMT

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J wrote:
> I can not figure out how to make a simple 3-D plot in IDL. I know
> that using the PLOT command you can make simple 2-D plots, but I need
> to have X, Y, and Z axes and plot in 3 dimensions. Can someone please
> tell me if there is some way of doing this. Thanks.

See PLOT3D at

http://airs2.ssec.wisc.edu/~paulv/#idl

Cheers,
Liam.
Practical IDL Programming
http://www.gumley.com/

Subject: Re: 3-D plotting
Posted by david[2] on Fri, 13 Jul 2001 20:54:45 GMT

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J writes:
>
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> that using the PLOT command you can make simple 2-D plots, but I need
> to have X, Y, and Z axes and plot in 3 dimensions. Can someone please

> tell me if there is some way of doing this. Thanks.

Are you talking about something like a 3D scatterplot?

   http://www.dfanning.com/tip/scatter3d.html

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: 3-D plotting
Posted by mperrin+news on Fri, 13 Jul 2001 22:25:42 GMT
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J <bensonjl3@hotmail.com> wrote:
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> that using the PLOT command you can make simple 2-D plots, but I need
> to have X, Y, and Z axes and plot in 3 dimensions. Can someone please
> tell me if there is some way of doing this. Thanks.

Look at the commands SHADE_SURF, SURFACE, and SHOW3.

 - Marshall

Subject: Re: 3-D plotting
Posted by Paul van Delst on Sun, 15 Jul 2001 15:39:32 GMT
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"Liam E. Gumley" wrote:
>
> J wrote:
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>> tell me if there is some way of doing this. Thanks.
>
> See PLOT3D at
>

> http://airs2.ssec.wisc.edu/~paulv/#idl

I think there is also an IDL version - from which I *think* I lifted most of this stuff.

paulv

p.s. The reason I did it way back whenever was because a colleague effortlessly produced a
3-d line plot in Matlab and I couldn't figure out to do it that easily in IDL. Can't have
Matlab users showing up the IDL crowd! Sheesh! :o)

--
Paul van Delst   A little learning is a dangerous thing;
CIMSS @ NOAA/NCEP   Drink deep, or taste not the Pierian spring;
Ph: (301)763-8000 x7274 There shallow draughts intoxicate the brain,
Fax:(301)763-8545   And drinking largely sobers us again.
                              Alexander Pope.