
Subject: Question About Scatter Surface Pro (www.dfanning.com)
Posted by [j.vanknippenberg](#) on Wed, 17 May 2006 14:24:48 GMT
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Hi everyone :)

I want to use this program to view roughly 100 regularly spaced points, and their properties. The problem I seem to have is that the ORBS are not spherical, but instead kind of ellipsoid. This is because the data ranges for X, Y and Z are not comparable? What I mean is that the xrange goes from 0-100, while the zrange from 0-0.01 for example. Any idea on how to fix this? (Im relatively new to IDL ;)

The program can be found here:
http://www.dfanning.com/tip_examples/scatter_surface.pro

And I think the orbs are created in this section:

```
; Create the symbols for each point. This is almost certainly  
; not the most efficient way if you have lots of points, but  
; it works well for a reasonable number.
```

```
npts = N_Elements(x)  
orbs=ObjArr(npts)  
line=ObjArr(npts)  
FOR j=0,npts-1 DO BEGIN  
  orbs[j] = Obj_New('ORB', Color=[r[zcolors[j]], g[zcolors[j]],  
b[zcolors[j]]], $  
    Style=2, Radius=0.015, Pos=[x[j],y[j],z[j]])  
  line[j] = Obj_New('IDLgrPolyLine', [x[j], x[j]], [y[j], y[j]],  
[min(z), z[j]], $  
    Color=[r[zcolors[j]], g[zcolors[j]], b[zcolors[j]]])  
  thisModel->Add, orbs[j]  
  thisModel->Add, line[j]  
ENDFOR
```

Also, my data consists of 3 different sets. I would like to have 1 color for each set, but ofcourse different when compared to the other 2. Any hints on how to proceed on this?

Thanks in advance! :)

J.vanknippenberg

Subject: Re: Question About Scatter Surface Pro (www.dfanning.com)
Posted by [David Fanning](#) on Thu, 18 May 2006 16:29:05 GMT

David Fanning writes:

- > I have learned in discussions this morning that I can avoid
- > this problem if I *don't* use the [XYZ]COORD_CONV keywords with
- > the orbs, but simply position them with the DATA keyword *while*
- > scaling and translating them. Huh!?

Well, clearly, this explanation of what is going on is as foggy as my understanding of the process, but you know what I mean. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Question About Scatter Surface Pro (www.dfanning.com)

Posted by [David Fanning](#) on Thu, 18 May 2006 16:36:27 GMT

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David Fanning writes:

- > Well, clearly, this explanation of what is going on
- > is as foggy as my understanding of the process, but
- > you know what I mean. :-)

Oh, geez, hang on....

Now I can't even get my nifty example program to do the right thing. Please forget this interruption and go back to the interesting Mac problem going on this morning. I'll get back to you when I figure it out again. :-(

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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