Subject: Re: "4D" Plots
Posted by Michael Galloy on Wed, 07 Mar 2007 20:57:34 GMT
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IPLOT has a VERT_COLORS keyword that accepts an array of values, but
SYM_INDEX only accepts a scalar. So if you're willing to display the
4th dimension as colors instead of symbol types, how about:

```
IDL> x = randomu(seed, 100)
IDL> y = randomu(seed, 100)
IDL> z = randomu(seed, 100)
IDL>
IDL> c = byte(randomu(seed, 100) * 255)
IDL>
IDL> loadct, 5
IDL> tvlct, r, g, b, /get
IDL> rgb = [[r], [g], [b]]
IDL>
IDL> iplot, x, y, z, rgb_table=rgb, vert_colors=c, linestyle=6, $
IDL>   sym_index=1, sym_size=0.2
```

Mike
--
www.michaelgalloy.com

Subject: Re: "4D" Plots
Posted by David Fanning on Wed, 07 Mar 2007 21:59:05 GMT
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Phillip Bitzer writes:

> I can't believe this question hasn't been answered yet, but I can't
> seem to find it anywhere. Maybe I just missed it...
>
> I have 2 data sets, one containing x,y,z points and the other
> containing some value (say intensity) for each of those spatial
> points. I want to plot the intensity at each x,y,z point.

Sounds like a scatterplot to me:

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

You can also see how to do something similar in object
graphics, which you can drag around in 3D space, here:

http://www.dfanning.com/misc/scatter_surface.pro

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
