Subject: Re: 2D Plot in IDL with shading?
Posted by Ally on Fri, 18 Jun 2010 20:11:26 GMT
View Forum Message <> Reply to Message

On Jun 18, 3:49 pm, David Fanning <n...@dfanning.com> wrote:
> Ally writes:
>> I have three arrays-sun elevation, azimuth, and diode response, for
>> each of 12 sun sensors and I'm trying to create a 2D plot in IDL with
>> elevation on the x-axis, azimuth on the y-axis and the diode response
>> color coded on a gradient scale. It would kind of be like a birds-eye
>> view of what a 3D graph with elevation shading would look like. I've
>> been searching for two days now and can't seem to find anything online
>> that shows me how to make a graph like this. Any help is appreciated.
>
> Are you looking for something like this:
>
>   http://www.dfanning.com/graphics_tips/coloredline.html
>
> 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.")

Not exactly. The whole plot will be filled in because there's a diode
response for each elevation and azimuth pair. The diode response
doesn't change linearly so I can't use the vector idea. I want the
colors to match the data in highest to lowest value order (or vice
versa) but the data isn't written this way (it should end up looking
like a ring or ellipse pattern with greatest response/darkest color on
the outside and lowest response/lightest color on the inside). I have
a picture of something similar in Python but I can't attach it to a
post. Is there any way I can make a surface plot of the data, give it
elevation shading, and then just view it top down so I only see the x
and y axes and colored rings?

-Allison