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Subject: Re: Axis issues, cgSurf and cgContour  
Posted by [sam.tushaus](#) on Fri, 27 Feb 2015 19:09:45 GMT  
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On Friday, February 27, 2015 at 12:48:25 PM UTC-6, David Fanning wrote:

>  
>  
>> Hello! I've been attempting to plot contour data and data on a surface using cgContour and cgSurf, respectively. In both cases I've had issues with the axes. The general form of each command is as follows:  
>> cgContour, data, x, y  
>> cgSurf, data, x, y  
>> Unfortunately, actually inserting something for x and y above hasn't been working out for me. In cgContour, I get a jumbled mess of contours that only vaguely resembles the actual data; in cgSurf, I get only a thin cylinder in the middle of the plot. Plotting without using x and y creates the proper plots, but requires forcing my axes, which can be tedious to program when handling large quantities of data and large numbers of plots (which I need to automate).  
>>  
>> Does anyone have experience with this issue? Any fixes? I've tried switching x and y, switching the dimensions of my x and y arrays, using vectors vs 2D arrays...but I've gotten nowhere so far.  
>  
> I have no idea what "forcing my axes" means, but if the commands work  
> when you don't specify X and Y values, I presume this means when you do  
> provide them you are doing so incorrectly. But, I really can't tell from  
> the evidence you have presented.  
>  
> Cheers,  
>  
> David  
> --  
> David Fanning, Ph.D.  
> Fanning Software Consulting, Inc.  
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>  
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Sorry - by forcing the axes, I mean that I need to suppress them and then specify axis labels. This can get pretty tedious since I want to automate the process, and I don't often have whole numbers to use on the axis. Here's what I want to plot using cgSurf:

```
data = elevation [25,320]  
x = longitude [25,320]  
y = latitude [25,320]
```

I've tried "cgSurf, data, x, y" and "cgSurf, data, y, x", as well as something to the effect of "cgSurf, data, x[1,\*], y[1,\*]"...but as I type that out, I'm realizing that I was thinking about it wrong. I needed to do "cgSurf, data, x[\*], y[1,\*]" to match dimensions.

However, I still have issues with cgContour. In that case, I've got:

```
data = reflectivity [1440,31]
```

```
x = time [1440]
```

```
y = height [1440,31] (or [31] if I just use one row of data)
```

I've tried everything I can think of to plot this, but I've had no luck.

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