Subject: Contour mapping of elevation points
Posted by gpeterso on Mon, 25 Feb 2013 17:28:56 GMT
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I am trying to create a contour map of elevation points I have. the file is in .txt form and is an array 824 by 914. I know that each elevation point is equally spaced and the longitude starts at 270 and ends at 360 and the latitude starts at 0 and ends at 90S.

I was able to configure a contour plot of that data, by simply reading in the two-dimensional elevation data and plotting. However, I am not sure if this is actually an accurate representation of the data. I've started to create a program that will assign the appropriate longitude and latitude but I am getting stuck.

If anyone knows how to help me, that would be much appreciated! Thanks

Subject: Re: Contour mapping of elevation points
Posted by gpeterso on Tue, 26 Feb 2013 20:55:37 GMT
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On Monday, February 25, 2013 9:28:56 AM UTC-8, gpet...@ucsc.edu wrote:
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haha, thank you so much!

Subject: Re: Contour mapping of elevation points
Posted by gpeterso on Tue, 26 Feb 2013 23:46:47 GMT
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On Monday, February 25, 2013 9:28:56 AM UTC-8, gpet...@ucsc.edu wrote:
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Is there a way to zoom in on a contour data. I know you can use cgZPlot for line plots. Is there a contour version in the coyote library?

Subject: Re: Contour mapping of elevation points
Posted by David Fanning on Wed, 27 Feb 2013 04:52:13 GMT
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gpeterso@ucsc.edu writes:

> Is there a way to zoom in on a contour data. I know you can use cgZPlot for line plots. Is there a contour version in the coyote library?

No, there is no zoomable contour plot. In theory, it is probably no different from zooming a line plot, although you will have twice as many things to keep track of. In practice, I don't think it works out all that well. You can, for example, zoom so far into a contour plot that nothing would actually appear in the plot. So, you would probably be forced to make some aesthetic choices that someone who is not paying you any money for your trouble would disagree with. That's always a bother. :-)

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.")
