
Subject: Extract Data from Point on Plot
Posted by [mrjeJones](#) on Thu, 29 Jan 2009 19:56:37 GMT
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I would like to be able to specify in coordinates (x,y) a point on my plot and IDL tell me what latitude, longitude, and reflectivity (I am using the Z device then read into PS for 2-D display) is plotted at that point. Basically, I want the raw data for that specific plot point. It must be command-line based.

Any help would be appreciated!

Subject: Re: Extract Data from Point on Plot
Posted by [David Fanning](#) on Thu, 05 Feb 2009 21:32:22 GMT
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mrjeJones@gmail.com writes:

> I appreciate your help. I've read and use gobs of information from
> your website and turned the Coyote library documentation into a PDF
> (very handy). I'm going to read everything you said to but meanwhile I
> had found this procedure "MAP_PROJ_INVERSE". What you described is
> exactly what I want so I may ditch the map_proj.

Yes, MAP_PROJ_INVERSE and MAP_PROJ_FORWARD are your friends.
Just be **absolutely** sure you call MAP_PROJ_INIT each and every time before you use them. That is to say, do NOT rely on calling MAP_PROJ_INIT once and reusing the map structure from that call in these other two routines. The documentation will lead you to believe it works that way, but it doesn't.

http://www.dfanning.com/map_tips/ephemeral.html

I use the MAPCOORD object in the Catalyst Library for these sorts of projects. When I ask the MAPCOORD object for the map structure (which I want to use, for example, in MAP_PROJ_INVERSE) then it will automatically call MAP_PROJ_INIT to create the map structure de novo. Very handy.

> Thanks for all the assistance you give the IDL community.

You are very kind. Thank you. :-)

Cheers,

David

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David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
