
Subject: Re: Displaying data in 3 coordinates

Posted by [David Fanning](#) on Sat, 14 Sep 2002 00:28:37 GMT

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Asti Bhatt (astib@cc.usu.edu) writes:

> I have data in the form of 3 coordinates. i.e. it creates a point in
> each iteration of the loop - $P(x,y,z)$. All the plotting routines I
> saw require data in form of either vector or $z = F(x,y)$.
>
> I was wondering if I use `errplot` and set z as error, would I be
> getting correct plot ?

No, you wouldn't get the right plot.

Maybe you are looking for a 3D scatterplot
of some kind. In any case, `PLOTS` takes XYZ
coordinates.

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

Cheers,

David

--

David W. Fanning, Ph.D.

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: Displaying data in 3 coordinates

Posted by [Pavel A. Romashkin](#) on Mon, 16 Sep 2002 16:42:43 GMT

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I am not sure I understand the problem.
 $p(x,y,z)$ looks like a valid input for `PLOT_3DBOX` to me.
I guess I'd like to know what "correct plot" is in this case.
Pavel

Asti Bhatt wrote:

>
> Hi,
>
> I have data in the form of 3 coordinates. i.e. it creates a point in
> each iteration of the loop - $P(x,y,z)$. All the plotting routines I

> saw require data in form of either vector or $z = F(x,y)$.
>
> I was wondering if I use errplot and set z as error, would I be
> getting correct plot ?
>
> I would appreciate if somebody can suggest a better way to do it; I am
> sure people would have done it before.
>
> Thanks and regards,
>
> Asti

Subject: Re: Displaying data in 3 coodinates
Posted by [astib](#) on Wed, 18 Sep 2002 21:17:42 GMT
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Hi,

My z and x are same size arrays and y different size. Now in plot_3Dbox, all three of them should be of same size. The data I have is like for certain value of y, I have 1000 x and z values. How do I plot that ?

Thanks,
Asti

"Pavel A. Romashkin" <pavel_romashkin@hotmail.com> wrote in message news:<3D860A03.2E983ED0@hotmail.com>...

> I am not sure I understand the problem.
> p(x,y,z) looks like a valid input for PLOT_3DBOX to me.
> I guess I'd like to know what "correct plot" is in this case.
> Pavel
>

Subject: Re: Displaying data in 3 coodinates
Posted by [David Fanning](#) on Wed, 18 Sep 2002 23:53:23 GMT
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Asti Bhatt (astib@cc.usu.edu) writes:

> My z and x are same size arrays and y different size. Now in
> plot_3Dbox, all three of them should be of same size. The data I have
> is like for certain value of y, I have 1000 x and z values. How do I
> plot that ?

I'd recommend a VERY small symbol be used. :-)

Cheers,

David

--

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Subject: Re: Displaying data in 3 coordinates

Posted by [Pavel A. Romashkin](#) on Thu, 19 Sep 2002 17:05:10 GMT

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The simplest way is to generate Y like so:

```
Y_arr = fltarr(1000) + Y
```

where Y is the single value you have for the thousand-point-long X and Z vectors.

Cheers,

Pavel

Asti Bhatt wrote:

>

> Hi,

>

> My z and x are same size arrays and y different size. Now in

> plot_3Dbox, all three of them should be of same size. The data I have

> is like for certain value of y, I have 1000 x and z values. How do I

> plot that ?

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> Thanks,

> Asti
