Subject: Re: Why can't IDL do simple things...? Posted by grunes on Thu, 25 Aug 1994 13:33:23 GMT

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In article <1994Aug24.143231.8722@fys.ruu.nl> hartman@fys.ruu.nl (Jan Willem Hartman) writes:

> ..or rather, probably, why can't I make IDL do simple things...

>

- > This is what I want: I have this bunch of data: x,y,z. So I want IDL
- > to plot just these points (eventually the points may be connected, but
- > let's not get too difficult) in 3D. So just like SURFACE, but with no
- > surface. Any idea??? Thanks in advance...
- > JanWillem Hartman.

>

plot,[x,y,z]

If you really mean (x1,y1), (x2,y2), (x3,y3) I think you want something like

plot,[x1,x2,x3],[y1,y2,y3]
Mitchell R Grunes (grunes@imsy1.nrl.navy.mil)
Allied-Signal Technical Services
c/o Code 7230 Naval Research Lab

Subject: Re: Why can't IDL do simple things...? Posted by thompson on Thu, 25 Aug 1994 13:55:53 GMT View Forum Message <> Reply to Message

grunes@imsy1.nrl.navy.mil (Mitchell R Grunes) writes:

- > In article <1994Aug24.143231.8722@fys.ruu.nl> hartman@fys.ruu.nl (Jan Willem Hartman) writes:
- >> ..or rather, probably, why can't I make IDL do simple things...

>>

- >> This is what I want: I have this bunch of data: x,y,z. So I want IDL
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> plot,[x1,x2,x3],[y1,y2,y3]
```

No, what I think he really wants to be able to do is to say

```
plot, X, Y, Z
```

where (X(i), Y(i), Z(i)) represents a point in 3D space. (One would have to define a viewing angle, of course.) Sounds like a reasonable idea to me. Unfortunately, I don't think IDL can do this at the moment, at least not so straightforwardly.

Bill Thompson

```
Subject: Re: Why can't IDL do simple things...?
Posted by ryba on Thu, 25 Aug 1994 20:44:18 GMT
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```

In article <33i7t9\$snk@paperboy.gsfc.nasa.gov>, thompson@orpheus.gsfc.nasa.gov (William Thompson) writes:

|> grunes@imsy1.nrl.navy.mil (Mitchell R Grunes) writes:

|>

|> >In article <1994Aug24.143231.8722@fys.ruu.nl> hartman@fys.ruu.nl (Jan Willem Hartman) writes:

```
|> >>..or rather, probably, why can't I make IDL do simple things...
```

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>>surface. Any idea??? Thanks in advance...

l> >>JanWillem Hartman.

|>

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|>

|> plot, X, Y, Z

|>

> where (X(i), Y(i), Z(i)) represents a point in 3D space. (One would have to

> define a viewing angle, of course.) Sounds like a reasonable idea to me.

|> Unfortunately, I don't think IDL can do this at the moment, at least not so

|> straightforwardly.

Isn't it just:

surface,x,y,z,/nodata,/save; Generate 3-d coordinates plots,x,y,z,/t3d,psym=xxx; Plot the points

--

Dr. Marty Ryba | Generation X:

MIT Lincoln Laboratory | Too young to be cynical,

ryba@ll.mit.edu | too old to be optimistic.

Of course nothing I say here is official policy, and Laboratory affiliation is

for identification purposes only, blah, blah, blah....

Subject: Re: Why can't IDL do simple things...? Posted by ryba on Thu, 25 Aug 1994 20:50:15 GMT

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In article <1994Aug25.204418.13013@ll.mit.edu>, ryba@ll.mit.edu (Marty Ryba) writes:

|> Isn't it just:

|> surface,x,y,z,/nodata,/save ; Generate 3-d coordinates

|> plots,x,y,z,/t3d,psym=xxx ; Plot the points

Oops! It's

surface,z,x,y,/nodata,/save ; Z goes first for surface

plots,x,y,z,/t3d,psym=3

--

Dr. Marty Ryba | Generation X:

MIT Lincoln Laboratory | Too young to be cynical,

ryba@Il.mit.edu | too old to be optimistic.

Of course nothing I say here is official policy, and Laboratory affiliation is

for identification purposes only, blah, blah, blah....

Subject: Re: Why can't IDL do simple things...?

Posted by hartman on Fri, 26 Aug 1994 07:23:31 GMT

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In <1994Aug25.205015.13891@Il.mit.edu> ryba@Il.mit.edu (Marty Ryba) writes:

- > In article <1994Aug25.204418.13013@II.mit.edu>, ryba@II.mit.edu (Marty Ryba) writes:
- > |> Isn't it just:
- > |> surface,x,y,z,/nodata,/save ; Generate 3-d coordinates
- > |> plots,x,y,z,/t3d,psym=xxx; Plot the points
- > Oops! It's
- > surface,z,x,y,/nodata,/save ; Z goes first for surface
- > plots,x,y,z,/t3d,psym=3

thanks to all who responed. It is simple to do this, but not straightforward. For those who also want to know:

```
gridd = fltarr(10,10) ; make a dummy array surface,gridd,/nodata,/save ; and fill the 3D-transformation variable.

plots,x,y,z,psym=3,/t3d ; et voila!

JanWillem.
```