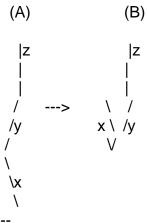
Subject: moving axes around in 3D plots Posted by vek on Tue, 28 Feb 1995 20:07:41 GMT

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I want to plot some surfaces from various angles but still have the axes be visible. The IDL manual suggests using reverse to move the surface viewing angle without altering the axes (usually by reversing the direction of one or more axes), but I prefer to rotate the image to the desired angle and then change the position of the axes without changing the directions of the axes. How do I do this?

Ex: Change (A) to (B) by moving the y and z axes to the other side of the x.



Vincent Kargatis -- Space Physics & | "Must be Texans. Lowest form Astronomy, Rice U., Houston, TX | of White Man there is." [vek@spacsun.rice.edu] | -- Robert Duvall's character in [http://spacsun.rice.edu/~vek/vek.html] | GERONIMO: AN AMERICAN LEGEND

Subject: Re: Moving Axes
Posted by Allan Whiteford on Wed, 30 Jan 2008 15:10:16 GMT
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chloesharrocks@gmail.com wrote:

> Dear all

>

- > I'm plotting data which has both +ve and -ve x and y values and
- > possesses a linear relationship which crosses the xaxis at a value
- >> 0. At the moment my x-axis is 'sitting' at y= -5, which makes it
- > very hard to notice that the xintercept is positive when just looking
- > at the graph (I do have an xyout output telling me the xintercept
- > value, but it would be nice if just a quick glance at the graph made
- > this obvious). Is there any way for me to move the x-axis up so it
- > sits on y=0 (and similarly moving the y-axis so its at x=0) but so

- > that my negative value data is still plotted? I presume there must be
- > an easy way to do this in IDL at the moment I'm just overplotting
- > lines corresponding to y=0 and x=0 just so I can clearly see the
- > xintercept's positive.

>

- > Thanks
- > Chlo�

>

> PS. I'm a complete IDL novice, so the simpler the better please!

Chlo�,

Look at the AXIS procedure.

E.g.:

IDL> plot,findgen(11)-5,findgen(11)-5,xstyle=4,ystyle=4
IDL> axis,0,0
IDL> axis,0,0,/yax

Thanks,

Allan

Subject: Re: Moving Axes

Posted by Brian Larsen on Wed, 30 Jan 2008 15:13:38 GMT

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- > I'm plotting data which has both +ve and -ve x and y values and
- > possesses a linear relationship which crosses the xaxis at a value>0. At the moment my x-axis is 'sitting' at y=-5,

This is normal IDL behavior, IDL draws a box around the plot with the ranges on it so you probably have an xaxis 'sitting' at -5 and another at +6 (or something).

A more specific example could help us understand more fully but in my example:

plot, findgen(10)-5 i have a xaxis at y=-6 and y=+4.

I often draw a horizontal line on a plot at y=0 to help guide the eye, done without thinking using:

http://people.bu.edu/balarsen/IDLdoc/oplot_horiz.html http://people.bu.edu/balarsen/IDLdoc/oplot_vertical.html

As for making the plot with the x-axis in the middle of the plot at

Cheers,		
Brian		
Brian Larsen		
Boston University		
Center for Space Physics		

y=0, I am sure this is possible but I cant recall any easy way. Have

you looked though http://dfanning.com/? An amazing number of questions are answered there,