Subject: Re: Plot sphere and ellipsoid(oblate,prolate,triaxial) by object graphics Posted by Antonio Santiago on Tue, 07 Mar 2006 10:47:44 GMT

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 Hi all, I want to draw these figure using by object graphics. I'm not familiar with object graphics. Is there anyone to show me the example code? 	Danis wrote:	
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I'm not familiar with object graphics.		
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>		
	> I'm not familiar with object graphics.	
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L Comments of the comments of		
> Thanks~		
> Inanks~	> IIIdirk5~	
> Danis	> Danis	
> Danis		
If you can calculate the x.y.z coordenates and the connectivity among verex, then you can draw it with IDLgrPolygon. Take a look at "idl/examples/doc/objects/orbdefine.pro". It draw a sphere in the same way.	verex, then you can draw it with IDLgrPolygon. Take a look at "idl/examples/doc/objects/orbdefine.pro". It draw a	
		
Antonio Santiago P�rez (email: santiago< <at>>grahi.upc.edu) (www: http://www.grahi.upc.edu/santiago) (www: http://asantiago.blogsite.org)</at>	(email: santiago< <at>>grahi.upc.edu) (www: http://www.grahi.upc.edu/santiago)</at>	
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Subject: Re: Plot sphere and ellipsoid(oblate,prolate,triaxial) by object graphics Posted by snfinder@naver.com on Tue, 07 Mar 2006 12:48:35 GMT View Forum Message <> Reply to Message

Thanks~ Antonio

Can you show me some example how to use IDLgrPolygon?

Actually I don't know object graphics at all.

Maybe I think I can calculate x,y,z coordinates of various ellipsoid.

And then how can I apply thses to object graphics?

Thank you in advance.

Subject: Re: Plot sphere and ellipsoid(oblate, prolate, triaxial) by object graphics Posted by Antonio Santiago on Tue, 07 Mar 2006 13:12:27 GMT

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Take a look at "orb::BuildPoly" method and to the documentation;)

Also, here is an exmaple of Object Grpahics and the box is a polygon:

http://www.grahi.upc.edu/santiago/?p=20 (download from:

http://www.grahi.upc.edu/santiago/imdocs/idl/alpha_texture/a lpha_texture.tar.gz).

ungzip, untar, execute idl and write "@alpha.g" to exectue.

Antonio Santiago P�rez (email: santiago<<at>>grahi.upc.edu www: http://www.grahi.upc.edu/santiago)

(www: http://asantiago.blogsite.org

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Subject: Re: Plot sphere and ellipsoid(oblate, prolate, triaxial) by object graphics Posted by Rick Towler on Tue, 07 Mar 2006 17:28:58 GMT

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Danis wrote:

- > I want to draw these figure using by object graphics.
- > > I'm not familiar with object graphics.
- > Is there anyone to show me the example code?

Before you do anything you may want to invest in a good book. Ronn Kling's Power Graphics with IDL is a good place to start. You can buy it from his website www.kilvarock.com. Now while you're waiting for that to be delivered...

Read the IDL docs on object graphics. Start at the beginning.

Then make a copy of orb__define.pro and play around with it, along with Antonio's examples. I also offer my RHTqrPSolid object which implements platonic solids in IDL OG. It might be the best place to start since the objects are pretty simple:

www.acoustics.washington.edu\~towler\programs\rhtgrpsolid__d efine.pro

And you'll definitely want to use xobjview. This little gem deals with all of the view setup so all you need to do is create an object to display.

IDL> orb=OBJ_NEW('orb', COLOR=[200,75,75], STYLE=2) IDL> xobjview, orb

Now change some of the properties:

IDL> orb->setproperty, STYLE=1 (click on the XOBJVIEW window to update it) IDL> orb->setproperty, DENSITY=5. (click on the XOBJVIEW window to update it) IDL> orb->setproperty, DENSITY=0.5 (click on the XOBJVIEW window to update it) IDL> orb->setproperty, COLOR=[50,50,250] (click on the XOBJVIEW window to update it)

Now destroy the object.

IDL> obj_destroy, orb

Have fun!

-Rick

Subject: Re: Plot sphere and ellipsoid(oblate,prolate,triaxial) by object graphics Posted by snfinder@naver.com on Wed, 08 Mar 2006 02:41:20 GMT View Forum Message <> Reply to Message

Thank both of you for helping me. ^^
It's a great help to me.
OK I start on buying the book..
Many thanks again.
May both of you be happy.