Subject: Re: 2D and 3D filled objects.
Posted by David Fanning on Fri, 27 Dec 2002 00:00:54 GMT
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New2IDL (biomedthesis2002@yahoo.com) writes:

- > I'm trying to draw a circle and fill the circle with value 255. I
- > want to extend this to 3D to draw a sphere and fill the sphere with
- > value 255. Can anybody tell me how to obtain this.

Here is an article on how to draw a circle in IDL:

http://www.dfanning.com/tips/make\_circle.html

It will lead you to TVCIRCLE from the NASA IDL Astronomy web page, the best circle routine around, I think.

What are you planning to do with the sphere? Filling a sphere with the value 255 is an odd sort of request. At least I haven't run into the need for it in 15+ years of working with IDL. :-)

I suspect there might be a simpler way of visualizing whatever it is you are trying to visualize with a sphere than constructing it this way. Typically, one does an isocontour, or a polygon mesh, or something like that.

For example, here is one way to render a sphere:

Window, XSize=300, YSize=300 sphere = FltArr(20, 20, 20) FOR x=0,19 DO FOR y=0,19 DO FOR z=0,19 DO \$ sphere(x, y, z) = SQRT((x-9.5)^2 + (y-9.5)^2 + (z-9.5)^2) Shade\_Volume, sphere, 8, vertices, polygons Scale3, XRange=[0,20], YRange=[0,20], ZRange=[0,20] image = PolyShade(vertices, polygons, /T3D) TV, image

Cheers,

David

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

Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive