
Subject: Re: 3d graphics

Posted by [David Fanning](#) on Mon, 24 Feb 2003 02:54:32 GMT

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Dan Madeira (d.madeira@ucl.ac.uk) writes:

- > I'm doing a undergrad group project where we have to use IDL to code a
- > stereographic representation of the solar system. However we have no prior
- > knowledge of this language, and so we are a little bit stuck....
- >
- > We have drawn four globes representing the Earth, moon, mars and the sun
- > using the `orb` procedure, and then used a for loop to translate the globes
- > according to a specified orbit, redrawing the view in both the right view
- > and left view widgets each time. However this results in a large lag between
- > each update, which ruins the stereoscopic effect. Has anyone got any ideas of
- > a faster technique?

This isn't that class with Professor Machiavelli, is it?

This seems just a tad too ambitious for someone with no IDL experience. :-(

In any case, I think you are going to want to capture your drawings as images and animate them in something like XInterAnimate. I presume you are using object graphics, so you can use the READ method on the window (or draw widget) to take a snapshot of the window. Then get the actual image data out of the image object you create. You can use the image data as input to XInterAnimate.

- > Also, we would like to have a globe, which is internally lit, representing
- > the sun. However when we placed a light source inside the orb, its surface
- > remained unlit though the other objects were properly lit. Is there any
- > simple way of solving this?

I don't think so. Or, I should say, I didn't come up with anything in a couple of hours of fooling around with it. It seems like there should be a way, but the surface of the orb object (a polygon object) seems opaque to the light source inside. I even tried adding a texture map to the orb and allowing alpha transparency. I can manage to see other things inside the orb, but not the light. :-(

I thought about putting a directional spotlight just outside the surface of the "sun" object and rotating it so that it always points to the viewer's eye, but I'm trying to get a life and this seemed like WAY too much work!

Cheers,

David

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