Subject: Re: Using trackball to rotate an image Posted by Rick Towler on Tue, 03 Dec 2002 17:17:17 GMT

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"Pushya" <pushyar@yahoo.com> wrote

- > I could rotate a cube using trackball in all directions. I want to
- > rotate a 3D image inside a cube. When i rotate the cube, the image
- > inside the cube should also rotate. I want to do this using trackball
- > object.
- > Can anybody tell me if there's a way to set the cube as transparent
- > and the 3D image inside the cube to rotate along with the cube?

Since you want your cube transparent can you draw your cube as a wireframe? It would be much easier. Seriously.

If not, you'll need to texture map a 4 channel RGBA image onto 2 half cubes. The half cubes will be 5 sided (open where they meet). You set the Alpha values very low so the cubes are translucent. You then order the halves such that the one farther away from your eye is always drawn first. This can be tricky but is easy with my camera object. Every time the object is moved you check the sign of the z component of the lookat vector. If it changes you use the Move method of IDLgrModel to reorder your objects.

Google the group for "Pimento problems" for an explanation as to why you need to do this.

As for your image, you'll need to texmap that onto a "billboard" (a 2d polygon). Image objects don't have any geometry so they can't be manipulated like other objects. Map your image onto a planar polygon located inside your cube(s). If you are texture mapping your cube make sure that your billboard is ordered correctly in your model:

back cube half, billboard, front cube half

When you flip the back and front cubes you'll need to keep your billboard in the middle.

-Rick