Subject: Re: Supose this... Posted by Michael Galloy on Thu, 24 May 2007 23:20:53 GMT View Forum Message <> Reply to Message On May 24, 11:38 am, David Fanning <n...@dfanning.com> wrote: > Folks, > Alright, suppose this. > Suppose I wanted to build a 3D transparent globe, with > continental outlines, major cities, etc. displayed on it. > And suppose I wanted to stick a sphere in the center of > the globe with pointy bits sticking out of it. (Think of > of those medieval weapons that the Visigoths swung from a chain to > bash in the skulls of their enemies.) I'd like to see where the > pointy bits stick out of the globe. (Please don't ask > me why.) > Would IDL be the software you would use to do this? > Would I run into the "pimento problem" with the back > side of the alobe? How about: interiorSphere = obj_new('orb', radius=0.1, \$ alpha channel=0.5, \$ color=[255, 0, 0]) globe = obj_new('orb', radius=0.2, \$ alpha channel=0.2, \$ color=[0, 0, 255])vertices1 = [[0, 0, 0], [0, 0, 0.1], [0.3, 0, 0]]polygons1 = [3, 0, 1, 2]spike1 = obj_new('idlgrpolygon', vertices1, \$ polygons=polygons1, \$ alpha channel=0.5, \$ color=[0, 255, 0]) vertices2 = [[0, 0, 0], [0, 0, 0.1], [0.212, 0.212, 0]] polygons2 = [3, 0, 1, 2]spike2 = obj_new('idlgrpolygon', vertices2, \$ polygons=polygons2, \$

omodel->add, spike1

omodel = obj_new('idlgrmodel') omodel->add, interiorSphere

alpha_channel=0.5, \$ color=[0, 255, 0])

omodel->add, spike2 omodel->add, globe xobjview, omodel

I think if "globe" where the only transparent object it would be pretty good.

By the way, I've been impressed with VTK. For something similar to your problem, how about these two shots:

http://michaelgalloy.com/wp-content/uploads/2007/05/vtk-left .png http://michaelgalloy.com/wp-content/uploads/2007/05/vtk-righ t.png

These are screenshots from an interactive trackball-type application and I'm not doing any manual sorting of polygons. (Yes, POV-Ray is awesome, but it takes me a while to everything setup just right and it's definitely not interactive.)

Mike

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