Subject: Re: Isurface, inverting the axis without changing default lighting direction Posted by penteado on Wed, 05 May 2010 01:49:58 GMT

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On May 4, 10:06 pm, cameron bowles <cameronbowle...@gmail.com> wrote:
> Thankyou so much for your tips Ken, they really helped. In the end I
> got it to look kind of OK with this code:
>
    void = ITGETCURRENT(TOOL=itool obj)
>
    lights id = itool obj -> FindIdentifiers('*LIGHTS', /
>
> VISUALIZATIONS) ;Get lights ID
    lights obi = itool obi ->
 GetByIdentifier(lights_id)
                                      Get lights object
> reference
    lights_obj -> SetProperty, INTENSITY = 0.7, DISTANCE =
>
              ;Set intensity and distance (z axis)
>
    itool obj -> RefreshCurrentWindow
>
> However I would really like to be able to set the location and
  direction of the directional light, this should be possible with;
>
    lights obj -> SetProperty, DIRECTION = [x,y,z], DISTANCE = [x,y,z]
>
>
> But I found that no matter what setting I had for x/y/z it wouldnt
> affect the lighting. Has anyone done this manually? I roughly want to
> have the light coming with a vector of [1,1,-1] from a position
> direction of [-1,-1,1]. If anyone knows the tricks to get that working
> I would appreciate it.
I think your problem is the object you are picking to edit. By
default, isurface makes two lights, one ambient (isotropic, I guess),
and one directional. For instance,
IDL> ids=itool_obj->findidentifiers('*LIGHT*',/visualization)
IDL> for i=0,n_elements(ids)-1 do print,ids[i]
/TOOLS/SURFACE TOOL/WINDOW/VIEW 1/VISUALIZATION LAYER/LIGHTS
/TOOLS/SURFACE TOOL/WINDOW/VIEW_1/VISUALIZATION LAYER/LIGHTS/LIGHT
/TOOLS/SURFACE TOOL/WINDOW/VIEW 1/VISUALIZATION LAYER/LIGHTS/LIGHT 1
You are selecting the lights object, but the properties you want to
edit are for the directional object, which in this case is LIGHT 1:
IDL> light=itool_obj->getbyidentifier('/TOOLS/SURFACE TOOL/WINDOW/
VIEW_1/VISUALIZATION LAYER/LIGHTS/LIGHT')
IDL> light->getproperty,name=name & print,name
Ambient Light
IDL> light=itool obj->getbyidentifier('/TOOLS/SURFACE TOOL/WINDOW/
VIEW 1/VISUALIZATION LAYER/LIGHTS/LIGHT 1')
```

IDL> light->getproperty,name=name & print,name **Directional Light**

With the object for the directional light, I can move and point it around with

light->setproperty,location=[1,1,-1],direction=[-1,-1,1]

Note that it may take a

itool_obj->commitactions

for the image to be updated after you change the objects.