
Subject: Re: 3D VOLUME VISUALIZATION
Posted by [idle](#) on Mon, 03 Jan 2005 21:55:21 GMT
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Antonio Santiago wrote:

> idle wrote:

>> Is there any way to make the volume transparent so one can see through

>> the volume instead only the front plane? Thanks!

>>

>

>

> I supossing you are talking about IDLgrVolume. The RGB_TABLE0 is the
> color table (256x3 array) for your DATA0 data and OPACITY_TABLE0 is the

> opacity (256 array) for every element of the RGB_TABLE0 color table.

> Then, for every color you can asign an opacity ("alpha channel").

>

> Bye.

Thanks. I met another problem as I first deal with 3D visulation. I can show the data on the screen, but when I use OBJ_NEW('IDLgrClipboard') to try to save it to a file as postscript, the eps file is just a dark images. By the way, how to save the image as a jpeg file?

following is part of the code to draw and save the image.

;-----

```
loadct,13
```

```
tvlct, r, g, b,/get
```

```
rgb=bytarr(256,3)
```

```
rgb(*,0)=r & rgb(*,1)=g & rgb(*,2)=b
```

```
myvolume = OBJ_NEW('IDLgrVolume', da)
```

```
cc=[-0.5,1.0/64.0]
```

```
myvolume->SetProperty,XCOORD_CONV=cc,YCOORD_CONV=cc,ZCOORD_CONV=cc
```

```
mywindow = OBJ_NEW('IDLgrWindow',DIMENSIONS=[400,400])
```

```
;mywindow = OBJ_NEW('IDLgrClipboard')
```

```
myview = OBJ_NEW('IDLgrView',VIEWPLANE_RECT=[-1,-1,2,2], $
```

```
ZCLIP=[2.0,-2.0],color=[50,50,50])
```

```
mymodel = OBJ_NEW('IDLgrModel')
```

```
myview->Add,mymodel
```

```
mymodel->Add,myvolume
```

```
mymodel->rotate,[1,1,1],20
```

```
opac = BYTARR(256)
```

```
opac[0:127] = BINDGEN(128)/8
```

```
myvolume->SetProperty,OPACITY_TABLE0=opac
```

```
myvolume->SetProperty,RGB_TABLE0=rgb  
mywindow->Draw,myview  
;mywindow->Draw,myview,VECTOR=1,POSTS=1,FILE='rgb.eps'  
;mywindow->Draw,myview,VECTOR=0,POSTS=0,FILE='a.bmp'
```
