
Subject: Re: Better plots with object graphics ?

Posted by [David Fanning](#) on Tue, 09 Nov 2004 13:47:56 GMT

[View Forum Message](#) <> [Reply to Message](#)

Klemens Barfus writes:

- > When I started with IDL, I did that because I was not satisfied with
- > three dimensional plots of other programmes.
- > The motivation was to generate plots of simulated cloud fields like you
- > can see on the following page:
- > <http://de.geocities.com/klemensbarfus/>
- > This graphic has been produced by direct graphics of IDL.
- > When I talked to an employee of Creaso - the german distributor of IDL
- > on a conference, he told me to use object graphics to get better
- > results. After this I bought the recommended book Power Graphics with
- > IDL, hoping, that I would get sometime as nice visualisations as the IDL
- > examples.
- > The question is now: before I start with object graphics, will I get
- > better cloud visualisations with for example changing illumination etc ?

Well, it will depend to some extent on what kind of programmer you are and whether or not you can learn to use IDL object graphics. I would say, in general, that the *potential* for getting better visualizations is much higher with object graphics than with direct graphics. Whether you can actually create them or not is beyond our knowing.

- > Or are object graphics in this case just useful for animations, when I
- > want to turn the cloud field etc ?

No, they can be useful in many other ways, as well.

- > What would be the basic object for these visualisations ? Cube objects ?

Possibly, if you are happy with what you had before. But you might want to experiment with polygon objects and texture mapping for something that more closely resembles a cloud.

- > Or are there other predefined objects, which are more useful for such
- > kind of volume visualisations ?

I think you might have to think about building an appropriate object for your purposes. The object library supplies the starting materials, but you are limited only by your imagination.

- > I would like to get a kind of starting point for working with object
- > graphics though I know, that it would perhaps be better not to start

> with 3D stuff :-)

Well, the minute you method the word "object graphics" you are ensnared in 3D stuff. Just relax and enjoy it. It can be fun if your deadlines are far enough out. :-)

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Phone: 970-221-0438, IDL Book Orders: 1-888-461-0155
