Subject: Re: 3D density plot?
Posted by Paul Sorenson on Wed, 15 May 2002 04:36:20 GMT
View Forum Message <> Reply to Message

You may want to add the HIDE keyword in xvolume.pro as shown here:

```
   78      oVol->GetProperty, $
   79         rgb_table0=rgb_table0, $
   80         opacity_table0=opacity_table0, $
   81         hide=hide
   82      obj_destroy, oVol
   83      oVol = obj_new('IDLgrVolume', $
   84         keyword_set(test) ? $
   85            congrid(bytscl(randomu((seed=0), 4, 4, 4)), 40, 40, 20)
$
   86            : vol, $
   87         /zbuff, $
   88         interpolate=interpolate, $
   89         hints=2, $
   90         /zero_opacity_skip, $
   91         /no_copy, $
   92         opacity_table0=opacity_table0, $
   93         hide=hide, $
   94         rgb_table0=rgb_table0 $
   95         )
```

"Paul Sorenson" <aardvark62@msn.com> wrote in message
news:3ce16e65_1@corp-goliath.newsgroups.com...

```
>  Here is a way you could do the animation:
>
>  pro example, dd
>
>  d = dd
>  sz = size(d, /dimensions)
>  for i=0,sz[0]-1 do begin
>     xvolume, d, /replace
>     filename = 'img' + strcompress(i, /remove_all) + '.bmp'
>  ;  xvolume_write_image, filename, 'bmp'
>     d = shift(d, 1, 0, 0)
>     end
>
>  end
>
>  IDL> d=randomu(s,5,5,5)
>  IDL> d=bytscl(congrid(d,50,25,25))
>  IDL> xvolume,d ;set your isosurface etc.
>  IDL> example,d
>
```

> -Paul Sorenson
>
> "Bernard K." <bknaepen@'skip_this'mac.'and_this'com> wrote in message
> news:130520022020445831%bknaepen@'skip_this'mac.'and_this'co m...
>>
>> Dear David,
>> this is not what I have in mind. I browsed the web and found an example:
>> http://www-fpc.stanford.edu/~bewley/movies/intro_25.25.html
>> Note that I don't require the movie function (yet :-)). Each gray
>> structure represents a region where the scalar quantity is bigger than
>> a given level.
>>
>> I nevertheless downloaded FSC_Surface and the reuired dependencies
>> and it works great. I do surface plots so it will be very handy for me.
>>
>> Thanks,
>> Bernard.
>>
>> In article <MPG.17499b19c5f635a59898cc@news.frii.com>, David Fanning
>> <david@dfanning.com> wrote:
>>
>>> Bernard K. (bknaepen@'skip_this'mac.'and_this'com) writes:
>>>
>>>> I have a 3D scalar field, say r(x,y,z), and I would like to produce
a
> 3D
>>>> plot which represents the locations (x,y,z) where r is greater than
>>>> a given value.
>>>
>>> I had a similar requirement not too long ago. I hacked up
>>> my FSC_Surface program (this seems to be the starting point
>>> for a LOT of my subsequent programs!) to produce a sort of
>>> 3D pin plot, where the color and length of the pin represented
>>> the distance of a galaxy. It could be rotated in 3D space, etc.,
>>> and was quite useful for visualizing this data.
>>>
>>> You can find a picture of the result here:
>>>
>>> http://www.dfanning.com/misc/pin_3d.jpg
>>>
>>> The FSC_Surface program is here:
>>>
>>> http://www.dfanning.com/programs/fsc_surface.pro
>>>
>>> Cheers,
>>>
>>> David
>

>
>
>
> ----------== Posted via Newsgroups.Com - Uncensored Usenet News
==----------
> http://www.newsgroups.com The #1 Newsgroup Service in the World!
> -----= Over 100,000 Newsgroups - Ulimited Fast Downloads - 19 Servers
=-----

----------== Posted via Newsgroups.Com - Uncensored Usenet News ==----------
http://www.newsgroups.com The #1 Newsgroup Service in the World!
-----= Over 100,000 Newsgroups - Unlimited Fast Downloads - 19 Servers =-----