
Subject: Re: shading/outlining on surface plot

Posted by chris_torrence@NOSPAM on Fri, 18 Jan 2013 05:27:12 GMT

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On Thursday, January 17, 2013 11:09:38 AM UTC-7, David Fanning wrote:

> Bob Plano writes:

>

>

>

>> Sorry if this is a dumb question, but....

>

>>

>

>> I'd like to make a surface or shade_surf plot, and outline areas on

>

>> the surface. The basic idea is here:

>

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>

>> make_2d_gaussian,arr,xx,yy ;xx and yy are 2D

>

>> grid point arrays

>

>>

>

>> shade_surf, arr,xx,yy,shades=whatever

>

>>

>

>> keep=where(arr gt .5*max(arr) and arr lt .7*max(arr))

>

>>

>

>> sub_outline_procedure,arr(keep),xx(keep),yy(keep) ???????????????????

>

>>

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>> Is there a relatively easy way to do this?

>

>

>
> No, there are no easy ways to do this, I don't believe, although maybe
>
> this is a case where function graphics can come to the rescue. One
>
> problem is writing on the surface. It is very difficult to know,
>
> unfortunately, where the actual surface *is*, due to round-off errors,
>
> mostly.
>
>
>
> You might try drawing a contour line on top of an image, then using that
>
> to drape over the surface, but I don't expect good results. :-(
>
>
>
> Cheers,
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>
>
> David
>
>
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Hi Bob,

How about something like the following:

```
; Sample data, stored in the "elev" variable
RESTORE, FILEPATH('marbells.dat', $
  SUBDIRECTORY=['examples', 'data'])
```

```
s = SURFACE(elev, COLOR='brown')
```

```
; Give two colors so we fill in between the contour level and the top.
```

```
c = CONTOUR(elev, C_VALUE=3800, PLANAR=0, /OVERPLOT, /FILL, $  
  C_COLOR=['white','white'], RGB_TABLE=0)
```

; Turn off labels, which are on by default.

```
c = CONTOUR(elev, C_VALUE=3800, PLANAR=0, /OVERPLOT, $  
  C_COLOR=0, RGB_TABLE=0, C_LABEL_SHOW=0, C_THICK=4)
```

Cheers,
Chris
ExelisVIS
