
Subject: Printing something on a plot
Posted by [mbrown](#) on Tue, 16 Jan 1996 08:00:00 GMT
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I'm plotting a box of values (representing dielectrics) with SHADE_SURF and rotating it so that the view is directly overhead. I'm using a 16-level color pallette so that the differences in the values are distinct. I'd like to be able to print small numbers over the graph corresponding to the value at particular points. The graph would then display regions with similar value with that value printed on top of the graph. When I say "over" and "on top of", I mean that the numbers would be printed at the same place as the regions (not at the top of the window). I'm not sure if this is possible. Can someone help me?

Myron.

Myron Brown
mbrown@olie.wvnet.edu

Subject: Re: Printing something on a plot
Posted by [nhbkimich](#) on Thu, 18 Jan 1996 08:00:00 GMT
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Myron Brown (mbrown@olie.wvnet.edu) wrote:
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: with SHADE_SURF and rotating it so that the view is
: directly overhead. I'm using a 16-level color pallette so
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: Myron.

: -----
: Myron Brown
: mbrown@olie.wvnet.edu

Maybe you should use contour rather than shade_surf.
Let z be the nx*ny box of values, i.e. z=fltarr(nx,ny), xmin, xmax,ymin

and ymax the minimum and maximum values of your data coordinates.

Make coordinate vectors:

```
IDL> x=xmin+findgen(nx)/nx*(xmax-xmin)
```

```
IDL> y=ymin+findgen(ny)/ny*(ymax-ymin)
```

Create contour plot:

```
IDL> contour,z,x,y,/fill,nlevels=15
```

nlevels=15 enforces 15 equidistant contour levels, i.e. 16 regions.

You can put any text onto your plot by xyouts, which uses data coordinates by default. For example, z(ix,iy) could be annotated by

```
IDL> xyouts,x(ix),y(iy),strtrim(string(z(ix,iy))),alignment=0.5
```

Michael Steffens

email: Michael.Steffens@mbox.muk.uni-hannover.de
