Subject: Re: tv with axes routine
Posted by David Fanning on Sat, 02 Dec 2006 22:08:45 GMT
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Brian Larsen writes:

> Has anyone out there written a wrapper for tv that makes the output
> look like contour?
>
> By like contour I mean with axes, and in the center of the window,
> scalable zrange, log scales, ability to add a colorbar (using colorbar
> would work separately also so long as position works)
> Contour is great but it inherently smooths and takes forever, I don't
> want either.
>
> This would be a blocky version of
> IDL> contour, dist(100), /fill, nlevels=100
>
> but of course
> IDL> tvscl, dist(100)
> doesn't have any axes, is in the wrong place and all.
>
> This would be the equivalent then of imagesc() in matlab.

```
  xrange = [-5, 5]
  yrange = [5, 15]
  image = Dist(256)
  LoadCT, 33, NColors=100, Bottom=1, /Silent
  position = [0.1, 0.1, 0.9, 0.75]
  TVImage, BytScl(image, Top=99), Position=position, $
/Keep_Aspect, /Erase, /NoInterpolate
  Plot, xrange, yrange, XRANGE=xrange, YRANGE=yrange, $
    Position=position, XStyle=1, YStyle=1, /NoData, /NoErase
  Colorbar, Range=[Min(image), Max(image)], Divisions=10, $
   Minor=5, NColors=100, Bottom=1, $
   Position=[position[0], 0.88, position[2], 0.95]
```

You could easily slap this into a wrapper procedure if you
like. Call it IMAGESC. :-)

You can find the relevant programs in the Coyote Library.

  http://www.dfanning.com/documents/programs.html

Cheers,

David
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")