Subject: Re: tv with axes routine
Posted by Paolo Grigis on Mon, 04 Dec 2006 09:21:18 GMT
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The solution proposed are useful, but actually sometimes you want a behaviour similar to contour even for *not-uniformely* spaced data, such that you specify an image z and two axis vectors x and y with the coordinates of each horizontal and vertical channel. In solarsoft, the routine "spectro_plot" will do that

Example:

for you.

```
:create some data
nx=800
ny=600
;image
im=dist(nx,ny)
;log scaled axis
x=10.^{(findgen(nx)/(nx-1)*2)}
y=10.^{(findgen(ny)/(ny-1)*2+1)}
;pick color table
loadct.5
:linear color scale
spectro plot,im,x,y,/xlog,/ylog,/xstyle,/ystyle,/no ut
;logarithmic color scale
spectro_plot,im,x,y,/xlog,/ylog,/zlog,/xstyle,/ystyle,/no_ut
:linear axis & color
spectro_plot,im,x,y,/xstyle,/ystyle,/no_ut
Ciao,
```

Brian Larsen wrote:

Paolo

- > 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.
> Cheers,
> -Brian
>
```