
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-uniformly** 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 for you.

Example:

```
;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,
Paolo

Brian Larsen wrote:

```
> 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
>
