Subject: Re: matrix plot similar to pcolor() in matlab?
Posted by David Fanning on Thu, 26 Aug 2004 17:00:49 GMT
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Josef Koller writes:

> does anyone know how to plot a simple 2D matrix similar to the pcolor()
> command in matlab?

No, I don't.

> Thanks for your help in advance. I've spend already hours on this but
> nothing comes close.

Hours, huh. Just reading about what pcolor() does,
I should think this would come reasonably close:

```
matrix = RandomU(-3L, 10, 10)
pos = [0.15,0.15, 0.9, 0.9]
LoadCT, 5
TVImage, BytScl(Congrid(matrix, 400, 400)), Position=pos
Plot, [0,10], [0,10], Position=pos, /NoErase, /NoData
```

You might have to download TVIMAGE:

  http://www.dfanning.com/programs/tvimage.pro

If I wanted to *interpolate* the colors from the
neighbors, then I might have to think about the
problem for more than a couple of minutes. I'd
probably try something with an IDLgrSurface
and a texture map. :-)

  http://www.dfanning.com/ographics_tips/imgtex.html

Cheers,

David

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David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: http://www.dfanning.com/

It's certainly not as versatile as pcolor, but I've written a routine for
plotting spectra which plots (rectangular) blocks of solid colour, each
block centred at x,y whose colours are determined by z, where x and y are
1-d arrays of co'ordinates and z is a 2d-array of values. If this is the
kind of thing you're interested in I'd be happy to share.

Justin

Josef Koller <news@koller.info> wrote in news:412e10ff$1_1@news3.es.net:

> Hi there,
> does anyone know how to plot a simple 2D matrix similar to the pcolor()
> command in matlab?
> Thanks for your help in advance. I've spend already hours on this but
> nothing comes close.
>
> josef