Subject: Pain with the contour() function

Posted by Helder Marchetto on Wed, 14 Jun 2017 15:09:46 GMT

Hi,

I was trying to plot an image with the contour function and I banged my head against the monitor for a while. I now have the solution and I'm sharing it. Probably most people know this very well. I didn't.

I followed the example given for the colorbar() function (Example: Discrete Contour Levels with Colorbar):

http://www.harrisgeospatial.com/docs/Colorbars.html

So I generated my data with the code below and it appeared strangely shifted to the side.

```
dis = dist(688)
n_levels = 6
levels = findgen(n_levels)
ct_number = 4
ct_indices = bytscl(levels)
loadct, ct_number, rgb_table=ct, /silent
step_ct = congrid(ct[ct_indices, *], 256, 3)
dis = (n_levels-1)*dis/max(dis)
ii = contour(dis, c_value = levels, rgb_table = step_ct, rgb_indices = ct_indices, /fill, axis_style=0)
```

I then started playing around with the position and margin keywords, but had no luck. Finally it all comes down to using xRange and yRange (or xStyle=1, yStyle=1):

```
ii = contour(dis, c_value = levels, rgb_table = step_ct, rgb_indices = ct_indices, /fill, axis_style=0, xStyle=1, yStyle=1)
```

The reason is that contour() plots images as if they were plots, so it defines some axis around it and you have to make sure you're not having uncovered regions.

Well, back to work.

Cheers,
Helder