
Subject: Re: Overlaying a contour on a small image
Posted by [pgrigis](#) on Fri, 29 Feb 2008 19:15:38 GMT
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Just trying it out, using pg_plotimage

http://hea-www.harvard.edu/~pgrigis/idl_stuff/pg_plotimage.p ro

```
;linear test array, easier to deal with than dist  
a=[[0.,1,2,1,0],[1,2,3,2,1],[2,3,4,3,2],[1,2,3,2,1],[0,1,2,1,0]]
```

```
loadct,5  
pg_plotimage,a,findgen(5),findgen(5)  
contour,a,/over,levels=[0.5,1.5,2.5,3.5],color=0
```

(The contours should have a vertex exactly at the pixel boundaries by construction of the image)

The half pixel at the boundary is missing however.

Paolo

David Fanning wrote:

> David Fanning writes:

>

>> Wayne Landsman writes:

>>

>>> Does anyone have a routine to overlay a contour plot on a small image
>>> that is both accurate and aesthetically pleasing?

>>

>> Isn't this what you want:

>>

>> im = dist(9)

>> thispostion = [0.1, 0.1, 0.9, 0.9]

>> TVIMAGE, bytscl(im), POSITION=thisPosition, /KEEP_ASPECT_RATIO, \$

>> /NOINTERP, /ERASE

>> contour,im, Position=thisPosition,/xsty,/ysty,/noerase,\$

>> scale_vector(findgen(9), 0, 9), scale_vector(findgen(9), 0, 9)

>

> I don't know. What do you think of this:

>

> im = dist(9)

> im[2,2] = 15

> im[4:5, 4:5] = 10

> thispostion = [0.1, 0.1, 0.9, 0.9]

> TVIMAGE, bytscl(im), POSITION=thisPosition, /KEEP_ASPECT_RATIO, \$

> /NOINTERP, /ERASE

```
> contour,im, Position=thisPosition,/xsty,/ysty,/noerase,$
>   scale_vector(findgen(9), 0, 9), scale_vector(findgen(9), 0,9), $
>   level = 6
>
> isocontour, im, v, c, c_value = 6
> Plots, v[0,0:6]+0.5, v[1,0:6]+0.5, color=fsc_color('dodger blue')
> Plots, v[0,7:*]+0.5, v[1,7:*]+0.5, color=fsc_color('dodger blue')
>
>
> Note how I have to add a half pixel to the ISOCONTOUR to get
> it anywhere near where I want it. Weird.
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```
