
Subject: Re: stippling or cross hatching in contour plot
Posted by [pgrigis](#) on Mon, 08 Oct 2007 20:22:05 GMT
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Ok, maybe I am not getting this right...
is this what you are trying to achieve?

```
a=dist(100,100)
contour,a,level=[30,40,50,60,70]
contour,a,level=[30,40,50],c_orient=[0,45],/cell_fill,/
noerase,max_value=50
```

Ciao,
Paolo

MA wrote:

```
> Hello David,
> thanks, that's definitely an improvement. However, I'm still trying to
> hatch only between two levels (significant areas), not hatch all over
> the plot. I've modified your code a bit, and now it's working. I
> basically create a new array from the original, in which I set all
> points I want to hatch to 1, all points I don't want to hatch over to
> 0, then contour at levels 1 and above.
>
> ;*****
> ;; create some data
> array=dist(10,10)
>
> Window,2
> loadct,2
> ;; contour data with color
> loadct, 33, ncolors=5, bottom=1
> device, decomposed=0, get_decomposed=theState
>
> thisDevice = !D.Name
> xsize = !D.X_Size
> ysize = !D.Y_Size
> Set_Plot, 'Z'
> Device, Set_Resolution=[xsize,ysize], Z_Buffer=0
> contour,array,levels=indgen(5),c_colors=indgen(5)+1,/fill, $
>   xstyle=1, ystyle=1, position=[0.1, 0.1, 0.9, 0.9]
> ;; try to put hatching on top
> locx = [0.1, 0.9] * xsize
> locy = [0.1, 0.9] * ysize
> snap1 = TVRD(locx[0], locy[0], locx[1]-locx[0]+1, $
>   locy[1]-locy[0]+1)
> ;; create new array for hatching
```

```

> newarray=array
> ;; set points I want to hatch over to 1
> newarray[Where(array GT 2.5 AND array LT 5.)]=1.
> ;; set points I don't want to hatch over to 0
> newarray[Where(array le 2.5 OR array ge 5.)]=0.
> ;; contour level=1 and some value above, which results in
> ;; hatching only over the area where the original array
> ;; had values between 2.5 and 5.
> contour, newarray, levels=[1,2], /overplot, $
>   c_orientation=[45]
> snap2 = TVRD(locx[0], locy[0], locx[1]-locx[0]+1, $
>   locy[1]-locy[0]+1)
>
> Set_Plot, thisDevice
> contour,array, xstyle=1, ystyle=1, /NoData, $
>   position=[0.1, 0.1, 0.9, 0.9]
> TV, snap1 > snap2, locx[0], locy[0]
> device, decomposed=theState
> end
> ;*****

```
