Subject: plot colored ellipses
Posted by Thibault Garel on Sun, 25 Mar 2012 04:14:56 GMT

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Hi,

I made a simple 2D scatter plot from a square array "matrix", using
plot, matrix,psym=3. I would like to make nice-looking images by:
- plotting ellipses instead of points (but centered on the points
coordinates)
- orientate these ellipses as I want
- use different colors for them
- apply a color gradient to each ellipse, i.e bright red in the center
and light at the edge
- etc

Could you please tell me where I should start to make such image?
because I am not very used to make pretty images in IDL... :)

thanks!

Subject: Re: plot colored ellipses
Posted by lecacheux.alain on Fri, 30 Mar 2012 12:42:09 GMT

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On 30 mar, 08:01, bing999 <thibaultga...@gmail.com> wrote:
> Hi,
>
> thanks for your reply.
>
> i have been able to make simple ellipse plots with the tvellipse
> routine, as Wayne suggested. However, it is hard to make nice images
> with this tool... Before giving a real try at function graphics, do
> you think that it will really allow to make good pictures with color
> gradients ? I am asking that since I never used this tool so far and
> it looks much more complex than standard plot routines... :)
> Would you have examples of beautiful images computed with the function
> graphics?
> Cheers
> Dreamer
>
>

Here is Wayne's example written by using function graphics :

pl = plot([0,100], [0,100], /NODATA)
x = [10,40,80]

```
y = [20,70,60]
orient = [80,140,0]
for i=0,2 do begin
  !null = ellipse(x[i], y[i], MAJOR=12, MINOR=6, THETA=orient[i], /
DATA, FILL_COLOR=!COLOR.FIREBRICK)
  !null = ellipse(x[i], y[i], MAJOR=8, MINOR=4, THETA=orient[i], /
DATA, FILL_COLOR=!COLOR.SALMON)
endfor
```

then, while adding another ellipse with "manual" color blending :

```
pl.Refresh, /DISABLE
!null = ellipse(60, 20, MAJOR=20, MINOR=10, /DATA, FILL_COLOR=!
COLOR.FIREBRICK)
for i=0,19 do !null = ellipse(60, 20, MAJOR=20*i*0.05,
MINOR=10*i*0.05, LINESTYLE=6, $
  /DATA, FILL_COLOR=!COLOR.SALMON, FILL_TRANSPARENCY=6*i < 100)
pl.Refresh
```

alx.

Subject: Re: plot colored ellipses
Posted by d.poreh on Fri, 30 Mar 2012 13:33:24 GMT
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On Friday, March 30, 2012 4:42:09 AM UTC-8, alx wrote:
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> MINOR=10*i*0.05, LINESTYLE=6, $
>   /DATA, FILL_COLOR=!COLOR.SALMON, FILL_TRANSPARENCY=6*i < 100)
> pl.Refresh
>
> alx.
```

I like that.