
Subject: Displaying a matrix in the most literal sense

Posted by [Mr.G](#) on Sun, 13 Dec 2009 06:37:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hello all,

I have a 6 by 6 matrix as follows:

```
m1=
[[-8.3154349,-7.2612143,-10.932296,-15.152297,-18.437241,-21.505252],$
[-7.2612143,-5.3079651,-8.9813512,-13.264392,-16.536048,-19.589704],$
[-10.932296,-8.9813512,-13.456954,-15.249534,-18.993573,-24.157051],$
[-15.152297,-13.264392,-15.249534,-17.049855,-17.272892,-19.309707],$
[-18.437241,-16.536048,-18.993573,-17.272892,-13.018024,-15.181197],$
[-21.505252,-19.589704,-24.157051,-19.309707,-15.181197,-11.384910]]
```

What I want to do is to display this matrix in 2D with grey-scale. I

want Large value to be brighter.

I want an undistorted, exact display -- so "contour, m1" is not what I want to use.

I tried the command "tvscl, m1", however, the display became so small that I can't not see it.

I know enlarging the matrix (by congrid) will do the job -- but, I also want x-axis and y-axis on the display.

The command "image_cont, m1" *almost* do the job. However, I would like to erase the contour part. Besides, I wish I will be able to modify the ticks of x-axis and y-axis -- I want the ticks run from 1 to 6, not 1 to 5. It would be really nice if I can use the keywords of "plot" and "axis".

Could anyone please help me. Shall I try to modify image_cont.pro?

Mr.G
