
Subject: Displaying a matrix in the most literal sense

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

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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
