Subject: Re: Displaying a matrix in the most literal sense
Posted by David Fanning on Sun, 13 Dec 2009 15:54:55 GMT
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mankoff writes:

>
> On Dec 12, 10:37 pm, "Mr.G" <gameplay...@gmail.com> wrote:
>> 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
>
> I use IMDISP http://cimss.ssec.wisc.edu/~gumley/imdisp.html

Yes, you can pretty much use *any* image display command you
find on the reputable IDL libraries to do this. The only image
display commands you *can't* use to do this are the ones supplied
with IDL. Sigh...

Cheers,

David

--
David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")