Subject: Re: Displaying 2D arrays
Posted by Kenneth P. Bowman on Wed, 27 Jul 2005 03:19:05 GMT
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In article <1122418101.776129.60180@g49g2000cwa.googlegroups.com>,
 "ntigris@gmail.com" <ntigris@gmail.com> wrote:

> Hello,
>
> I have a 2D array filled with 0's and 1's. How do i display it so that
> there is simply a dot for each
> 1? It should look exactly like an 'image' of a 2D array, but also
> should have axes and gridlines.
> Is that possible?
>
> I tried image_cont, but then I don't know how to get rid of the
> contour...
>
> Thanks a lot!

TV, BYTSCL(array)

??

Ken Bowman

Subject: Re: Displaying 2D arrays
Posted by David Fanning on Wed, 27 Jul 2005 04:01:34 GMT
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Kenneth P. Bowman writes:

> TV, BYTSCL(array)

Well, no grid lines there. :-)

How about something like this:

```
s = Size(array, /Dimensions)
pos=[0.1, 0.1, 0.9, 0.9]
TVImage, Bytscl(array), Position=pos, /Keep_Aspect
Plot, [0, s[0]], [0,s[1]], /NoData, /NoErase, $
   Position=pos, XTicklen=1, YTicklen=1
```

TVImage can be found here:

http://www.dfanning.com/programs/tvimage.pro

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Displaying 2D arrays
Posted by David Fanning on Wed, 27 Jul 2005 04:05:11 GMT
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David Fanning writes:

> How about something like this:
>
> s = Size(array, /Dimensions)
> pos=[0.1, 0.1, 0.9, 0.9]
> TVImage, Bytscl(array), Position=pos, /Keep_Aspect
> Plot, [0, s[0]], [0,s[1]], /NoData, /NoErase, $
> Position=pos, XTicklen=1, YTicklen=1

Whoops! Better get those STYLE keywords in there, too. :-)

```
Plot, [0, s[0]], [0,s[1]], /NoData, /NoErase, $
  Position=pos, XTicklen=1, YTicklen=1, XStyle=1, YStyle=1
```

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Displaying 2D arrays
Posted by Mark Hadfield on Wed, 27 Jul 2005 04:19:22 GMT
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David Fanning wrote:
>> How about something like this:
>>

>> s = Size(array, /Dimensions)
>> pos=[0.1, 0.1, 0.9, 0.9]
>> TVImage, Bytscl(array), Position=pos, /Keep_Aspect
>> Plot, [0, s[0]], [0,s[1]], /NoData, /NoErase, $
>> Position=pos, XTicklen=1, YTicklen=1
>
>
> Whoops! Better get those STYLE keywords in there, too. :-)
>
> Plot, [0, s[0]], [0,s[1]], /NoData, /NoErase, $
> Position=pos, XTicklen=1, YTicklen=1, XStyle=1, YStyle=1

Or, if you're that way inclined, IIMAGE. Not that I've ever used it
myself...

--
Mark Hadfield "Kei puwaha te tai nei, Hoea tahi tatou"
m.hadfield@niwa.co.nz
National Institute for Water and Atmospheric Research (NIWA)

Subject: Re: Displaying 2D arrays
Posted by K. Bowman on Wed, 27 Jul 2005 14:58:38 GMT
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In article <MPG.1d50b50bdc529fa7989a29@news.frii.com>,
 David Fanning <davidf@dfanning.com> wrote:

> Kenneth P. Bowman writes:
>
>> TV, BYTSCL(array)
>
> Well, no grid lines there. :-)

Well, he didn't ask for grid lines. ;-)

Ken

Subject: Re: Displaying 2D arrays
Posted by David Fanning on Wed, 27 Jul 2005 15:30:20 GMT
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Kenneth Bowman writes:

> In article <MPG.1d50b50bdc529fa7989a29@news.frii.com>,

> David Fanning <davidf@dfanning.com> wrote:
>
>> Kenneth P. Bowman writes:
>>
>>> TV, BYTSCL(array)
>>
>> Well, no grid lines there. :-)
>
> Well, he didn't ask for grid lines. ;-)

Are you certain?

> 1? It should look exactly like an 'image' of a 2D array, but also
> should have axes and gridlines.
> Is that possible?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Displaying 2D arrays
Posted by K. Bowman on Wed, 27 Jul 2005 15:49:16 GMT
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In article <k-bowman-227FC4.09583827072005@news.tamu.edu>,
 Kenneth Bowman <k-bowman@null.tamu.edu> wrote:

> In article <MPG.1d50b50bdc529fa7989a29@news.frii.com>,
> David Fanning <davidf@dfanning.com> wrote:
>
>> Kenneth P. Bowman writes:
>>
>>> TV, BYTSCL(array)
>>
>> Well, no grid lines there. :-)
>
> Well, he didn't ask for grid lines. ;-)
>
> Ken

Ah, details, details, ...

Ken

Subject: Re: Displaying 2D arrays
Posted by liamgumley on Wed, 27 Jul 2005 17:55:52 GMT
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Here's one way:

image = reform(bindgen(40) mod 2, 5, 8)
loadct, 0
tvlct, 0, 255, 0, 0
imdisp, image, /axis, xticklen=1, yticklen=1, bottom=1, color=0

IMDISP is available from

http://www.gumley.com/PIP/Free_Software.html

Cheers,
Liam.
Practical IDL Programming
http://www.gumley.com/

Subject: Re: Displaying 2D arrays
Posted by ntigris@gmail.com on Wed, 27 Jul 2005 17:59:05 GMT
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Thanks a lot! :)
