## Subject: Different sized pixels in pg_plotimage (is this a "feature")
Posted by Brian Larsen on Fri, 16 Jan 2009 17:01:51 GMT

Paolo (and anyone else who uses pg_plotimage),

I am having trouble using/modifying pg_plotimage in a way that
produces the output that I want, so I'll try here.

using the following idl code:
ctload, 39
pg_plotimage, dist(10), findgen(10), findgen(10), /iso

I expect to get 100 "pixles" of different values all the same size.
Instead what I get is an 8x8 region of square pixels surrounded by a
border of 1/2 sized pixels and corners of 1/4 sized pixels. At least
for what I am trying to do this isn't the desired output.

In hunting through pg_plotimage I am unable to figure out where the
border resizing is happening so I can undo it. Does anyone have any
ideas (or real knowledge) on where they are being changed?

Thanks

Brian


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Brian Larsen
Boston University
Center for Space Physics
http://people.bu.edu/balarsen/Home/IDL

## Subject: Re: Different sized pixels in pg_plotimage (is this a "feature")
Posted by Giorgio on Fri, 23 Jan 2009 04:20:54 GMT

Hi,
 Since we are discussing different features to display images, one
thing I would like is to be able to display an image with axis and at
the same time specify the x and y-range. For example: tvimage, image,
xaxis, yaxis, xrange =[], yrange =[]. Where the image is a mxn array,
xaxis can be either an m-vector, yaxis and n-vector, and the x, y -
ranges are 2 elements vector specifying the range to be shown.
In this example, I use tvimage because I am used to it, but does any
of the mentioned programs (plotimage or pg_plotimage) has this
feature.
 I know that this can be seem as a waste of space for the xaxis or the

yaxis, one option then is that the xaxis can be a 2 element vector
with the total range of the image.
 I can modify the above mentioned programs to have this feature, but
before doing that I think it is better to ask first.

Cheers,

Giorgio

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## Subject: Re: Different sized pixels in pg_plotimage (is this a "feature")
Posted by David Fanning on Fri, 23 Jan 2009 05:12:08 GMT

Giorgio writes:

>   Since we are discussing different features to display images, one
> thing I would like is to be able to display an image with axis and at
> the same time specify the x and y-range. For example: tvimage, image,
> xaxis, yaxis, xrange =[], yrange =[]. Where the image is a mxn array,
> xaxis can be either an m-vector, yaxis and n-vector, and the x, y -
> ranges are 2 elements vector specifying the range to be shown.
> In this example, I use tvimage because I am used to it, but does any
> of the mentioned programs (plotimage or pg_plotimage) has this
> feature.
>   I know that this can be seem as a waste of space for the xaxis or the
> yaxis, one option then is that the xaxis can be a 2 element vector
> with the total range of the image.
>   I can modify the above mentioned programs to have this feature, but
> before doing that I think it is better to ask first.

Too weird for me. I think I'll pass. :-)

Cheers,

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

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## Subject: Re: Different sized pixels in pg_plotimage (is this a "feature")
Posted by Craig Markwardt on Fri, 23 Jan 2009 06:40:19 GMT

On Jan 22, 11:20 pm, Giorgio <giorgiol...@gmail.com> wrote:
> Hi,
>  Since we are discussing different features to display images, one
> thing I would like is to be able to display an image with axis and at
> the same time specify the x and y-range. For example: tvimage, image,
> xaxis, yaxis, xrange =[], yrange =[]. Where the image is a mxn array,
> xaxis can be either an m-vector, yaxis and n-vector, and the x, y -
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> In this example, I use tvimage because I am used to it, but does any
> of the mentioned programs (plotimage or pg_plotimage) has this
> feature.
>  I know that this can be seem as a waste of space for the xaxis or the
> yaxis, one option then is that the xaxis can be a 2 element vector
> with the total range of the image.

Yes, PLOTIMAGE has this capability.  You can specify the axis ranges
of the original image (with the IMGXRANGE and IMGYRANGE keywords), and
separately choose the ranges to be displayed.

Craig