## Subject: Re: image display with different pixel size in x & y Posted by David Fanning on Wed, 23 Nov 2005 05:18:50 GMT

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## Jess writes:

- > Is it possible to display a pixel image in which the pixel sizes are
- > different in X and Y directions?

It is certainly possible in a device that supports scaleable pixel sizes (e.g., the PostScript device). It is considerably harder in devices (e.g., your computer display) that have fixed their pixels sizes in hardware. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: image display with different pixel size in x & y Posted by peter.albert@gmx.de on Wed, 23 Nov 2005 07:20:29 GMT View Forum Message <> Reply to Message

As David has said, the pixel size on your monitor can't of course be changed, but instead you can mimick that by using a different number of window pixels in x- and y-direction for each of your data pixels. If, as an example, you have an array of 200 x 200 pixels, where the (data) pixel y-size is 3 times its x-size, than I'd try plotting it all in a 200x600 sized window:

IDL> window, 1, xsize = 200, ysize = 600 IDL> tv, congrid(data, 200, 600)

or, more general:

IDL> ds = size(data, /dim)
IDL> x\_factor = 2
IDL> y\_factor = x\_factor \* 3
IDL> window, 1, \$
IDL> xsize = ds[0] \* x\_factor, \$
IDL> ysize = ds[1] \* y\_factor
IDL> tv, congrid(data, ds[0] \* x\_factor, ds[1] \* y\_factor)

Now, for the contours, I'd try calculating them from the CONGRIDded data, allowing to overlay them easily over the plot.
Cheers,
Peter
Subject: Re: image display with different pixel size in x & y Posted by Jess on Wed, 23 Nov 2005 11:12:53 GMT View Forum Message <> Reply to Message
Thanks Peter & David for the clarification. Congrid is just what I need Jess