
Subject: Re: Zoom out of astronomical image preserving header info
Posted by [mperrin+news](#) on Thu, 17 Feb 2005 18:51:15 GMT

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burkina <stebia@inwind.it> wrote:

> Ciao,
>
> I need to zoom out an astronomical image, in order to make it visible a
> part of the sky which is NOT included in the image itself. In other
> words, I need to display the original image in a smaller region of the
> picture and the rest is black. BUT, I need to preserve the RA and DEC
> coordinates in the black part of the picture, because I have to draw a
> box at certain coordinates to show that it is well outside the original
> image. Moreover, I need to put RA and DEC axis (as it's done with
> imcontour), BUT for all the total picture, not only the original image.
> I hope it's clear! In any case, I've done it succesfully with ds9, so
> that I can show what I want to you, but in IDL the result can be much
> better!

There are a number of routines in the Goddard idlastro library for manipulating images and their FITS astrometry headers at the same time. In particular, you can use HREBIN for resizing (zooming out). Then you can use imcontour for the axes labels - just set /noerase and /nodata when calling it.

- Marshall

Subject: Re: Zoom out of astronomical image preserving header info
Posted by [burkina](#) on Fri, 18 Feb 2005 11:19:25 GMT

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Thank you Marshall for your reply.

The problem with hrebin (and hcongrid) is that they don't zoom the image out as I need (like atv for example). They will produce an image with that number of pixels, so that if the zoom factor is 2, an original image of, say, 300x300, will become 600x600. This means a lot of time in processing the image when you need a very large zoom factor (as in my case) and enormous image files. That's not what I need. I actually need a constant image size, but with the original image shrunk to the desired dimension.

In practice, I need a functionality completely equivalent to the ATV zoom, together with the possibility to re-center the final image where I want. I need space outside the image with the correct RA and DEC coordinates. ATV does it, but it can't do other things I need. That's why I can't use it directly.

I'm sure it's easy....

Stefano
