
Subject: Re: help with imdisp

Posted by [Russell Ryan](#) on Thu, 28 Jun 2012 00:40:24 GMT

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On Wednesday, June 27, 2012 4:29:00 PM UTC-4, Kyle Schindler wrote:

```
> Hi,
> I am new to IDL I only have a few weeks experience.
> I have an array ch1,ch2,ch3, and ch4 each are from a FITS file which is      ch1 FLOAT    =
Array[1763, 1957]
> I am trying to cancel out the background noise then use imdisp to display ch1/ch2, ch3/ch4
ect..
>
> I first use where to subtract out the noise
>
> ch10 = where(ch1 gt .01)
> values = ch1[ch10]; now this gives me a new array
> ;VALUES      FLOAT    = Array[701724]
> ;For imdisp to work I need need to have a two dimension array.
> ;so I use
> makech12d = array_indices(ch1,values)
> ;MAKECH12D    LONG    = Array[2, 701724]
> ;This prints out basically all zeros and a few ones the 2nd column is all zeros
> ; first column is all whole #'s even if its float
> ;I did this with ch3 and used this code
> b = makech32d/makech12d
> imdisp,b(x1-nx:x1+nx,y1-ny:y1+ny),range=[-2.0,2],channel=1, margin=0.02
> % Illegal subscript range: B.
>
>
> how can I get the array values to be an array that is closer to [1763, 1957] rather than [2,
701724] and fix my error
```

Looks like you're trying to show some IRAC imaging with no noise? Well, your problem isn't with imdisp, but understanding what you want.

Do you want to replace the sky pixels with some constant? If so, let's call that constant c, then you just need:

```
new_img = (chi1 gt 0.01)*ch1 + (ch1 le 0.01)*c
```

Now, just send that new_img to imdisp.

But, if you're looking at some color map or something (that is the ratio of two images), make sure you don't run into problems by dividing by zero. For example:

```
color = ch1/ch2
```

could diverge for pixels where ch2 =0 . So instead, do something like:

$\text{color} = \text{ch1}/(\text{ch2} > \epsilon)$

where $\epsilon = 0.0001$ or something.

Russell
