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Subject: Re: What don't I know about jpeg, 3 channels, and color display?

Posted by [David Fanning](#) on Thu, 23 Sep 2004 07:34:05 GMT

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Dee writes:

> thanks, it worked once I also used the true=1 with read\_jpeg. I still  
> can't use my routines (which assume a 2D array) for displaying etc.  
> but I got around that by using other functions. I still don't  
> understand the 3D issue with these jpegs though..... :-)

You are using the wrong routines. :-)

You need to get ahold of TVImage, or ImgDisp, or PlotImage. One of the image display routines smart enough to figure out if you have a 2D or 3D image and do the right thing. You can find TVImage here:

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

You can, of course, convert a 3D image to a 2D image, but if you want to maintain a reasonable representation of the colors in the 24-bit image, then you have to be very careful about resizing the image, etc., because the resulting color table from Color\_Quan will not be anything at all like what you are used to. For example, to convert a pixel-interleaved 24-bit JPEG image:

```
image2d = Color_Quan(image24, 1, r, g, b)
TVLCT, r, g, b
TV, image2d
```

Or, you can make a gray-scale image out of the 24 bit image:

[http://www.dfanning.com/ip\\_tips/color2gray.html](http://www.dfanning.com/ip_tips/color2gray.html)

You have to be a little bit careful, however, about using old procedures on JPEG images. A JPEG image typically only has \*color\* information, it only rarely, and then in special conditions, has science information.

Cheers,

David

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