Subject: RGB Color reconstruction
Posted by rpertaub@gmail.com on Tue, 30 Oct 2007 14:33:17 GMT
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Hello,
I am doing some RGB color reconstruction and I am confused by some of the display. I tried to paste my image for greater clarity, but could not, so will try to explain as clearly as possible. Here is the simple code I am using with three image frames for the 3 RGB channels:

```
maxes=lonarr(3)
maxes[0]=max(final_red)
maxes[1]=max(final_grn)
maxes[2]=max(final_blu)

final_image=lonarr(3,1272,1052)
final_Image[0,*,*] = bytscl(final_blu,max=maxes[2])
final_Image[1,*,*] = bytscl(final_red,max=maxes[0])
final_Image[2,*,*] = bytscl(final_grn,max=maxes[1])

window,3,title='Reconstructed Cube RGB Image',xsize=1200,ysize=900
tvscl,final_image,true=1
```

I get my RGB image thus. Then, I look at one region that is clearly blue in color and click on it to get the int of each channel. My print out int is thus:

450nm (blue-ish):3871
550nm(green-ish):12518
650nm(red-ish):14212

Clearly from the intensities, red channel has the highest intensity. Blue is in fact the lowest. Yet, the image at that pixel was BLUE! I am obviously not understanding how tvscl,final_image,true=1 works...

Any idea?

Thanks,
RP