Subject: Re: color problems in the Z-buffer Posted by David Fanning on Tue, 01 Jul 2003 15:23:34 GMT View Forum Message <> Reply to Message

```
> Searched through the group listings, and elsewhere, but didn't find
> any useful
> information. So I try posting.
>
> I have a serie of color images (3 x X_Size x Y_Size) in png format,
> which I wish to
> modify slightly and then write back as indexed png images, and I'm
> working on a
> MAC OS X with IDL 5.6.
> But the result look very bad, as if I only have like 12 color levels!?
 My pseudo code goes something like
>
> SET_PLOT, 'Z', /COPY ;write to the Z 'pseudo' buffer - no output to
> terminal
   DEVICE, SET RESOLUTION=[XSize, YSize], Z Buffer=0
>
> FOR i = 0,N-1 DO BEGIN
   image = READ_PNG(FileName[i])
   TVIMAGE, image
>
     ;Some "non-invasive" image modification, like adding text with
>
> XYOUTS
>
   a = TVREAD()
>
   TVLCT, r, g, b, /GET
   image24[0,*,*] = r[a]
>
   image24[2,*,*] = g[a]
>
   image24[2,*,*] = b[a]
>
 WRITE_PNG, ResultFileName[i], image24
> ENDFOR
>
> N is around 1000, so I thought that I would save time using the
> Z-buffer. I've used a
> similar code, but then writing to the X device and saving the image
> using TVRD(True),
> which works fine. What wrong do you think I do in the Z-buffer??
```

Well, there are a couple of things wrong here. First of all, even though you say you want to write these back as "indexed" PNGs, you are actually writing them back as 24-bit images!

So, assuming you \*don't\* want indexed PNGs, and assuming you \*don't\* want to see the image going into a window on the display, I would write the code like this:

```
Window, /Free, /Pixmap, XSize=xsize, YSize=ysize
FOR j=0,N-1 DO BEGIN
image = Read_PNG(filename[j])
TVImage, image
XYOuts, .....
infile = StrSplit(filename[j], '.', /Extract)
outfile = infile[0] + '.processed'
ok = TVRead(Filename=outfile, /NoDialog, /PNG)
ENDFOR
WDelete, !D.Window
```

If the file goes in with the name "image\_1.png", it comes out with the name "image\_1.processed.png".

Cheers,

David

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