
Subject: Re: SHOWIMAGE posted (companion to SAVEIMAGE)
Posted by [davidf](#) on Thu, 05 Aug 1999 07:00:00 GMT
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Liam Gumley (Liam.Gumley@ssec.wisc.edu) writes:

> I just posted a new procedure named SHOWIMAGE at
>
> <http://cimss.ssec.wisc.edu/~gumley/imagetools.html>

Really nice programs, Liam. I like them a lot. And
I'm bummed I didn't think of the idea. :-)

I have a couple of questions and a bug report. :-(

Why are you doing this in ShowImage:

;- Sort the color table from darkest to brightest

```
table_sum = total([long(r), long(g), long(b)], 2)
table_index = sort(table_sum)
image_index = sort(table_index)
r = r[table_index]
g = g[table_index]
b = b[table_index]
oldimage = image
image[*] = image_index[temporary(oldimage)]
```

I just can't figure out what this does.

And why do you reduce the number of colors on an 8-bit display? Is it because a GIF image, for example, may have more colors than your IDL session? What if it does and you can't reduce the number of colors? Is there any way to display the GIF image correctly then?

I happened to be fooling around in IDL when this post showed up, so I just downloaded the code and tried it out. I'm running IDL 5.2 in 24-bit mode. I thought I would see how it did on a 24-bit image, so I chose the rose.dat file in the IDL/examples/data directory:

```
ShowImage, 'C:\RS\IDL52\EXAMPLES\DATA\ROSE.JPG'
```

It worked great, except the colors were all screwed up. :-(
The problem, of course, is that I had a color table loaded in my IDL session (and the DECOMPOSED keyword set to 0, naturally), and IDL took these RGB colors through

the color tables because in this Windows version of IDL it does that.

Here is your code:

```
; - Display 8-bit or 24-bit image

if info.channels eq 1 then begin

    ; - Display 8-bit image

    device, get_decomposed=current_decomposed
    device, decomposed=0
    tvlct, r, g, b
    tv, image
    device, decomposed=current_decomposed

endif else begin

    ; - Display 24-bit image

    tv, image, true=1

endelse
```

But, unfortunately, you have to do the same DECOMPOSED trick for 24-bit displays:

```
; - Display 24-bit image

device, get_decomposed=current_decomposed
device, decomposed=1
tv, image, true=1
device, decomposed=current_decomposed
```

But here is the REALLY good news! Your program works *perfectly* in IDL 5.2.1, because the folks at RSI really do listen to users sometimes, and they fixed this annoying bug! :-)

But all in all, some really nice, extremely useful software. Thanks for taking the time to do it. I have a feeling I'm going to be using it just about every day. :-)

Best Regards,

David

P.S. Martin Schultz hasn't been in contact with you, has he?

I used to hear from him several times a day for a week after I posted new software. I hope he's not going soft back there in Germany. :-)

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