Subject: Write PNG from plots with different color tables??
Posted by Mark Shephard on Tue, 02 Mar 2010 18:51:24 GMT

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Hi all,

I need help! This should be very simple, but I cannot seem to find a
solution. I have having problems with the fact that I have two plots
using two different color tables that I would like to write into one
png file, but, write_png that only accepts one color table. Here is
an example outline:

```
set_plot, 'z'
;; load color table
loadct, 0
tvlct, r, g, b, /get

!P.BACKGROUND = 255 ;white

;;plot simple x,y plot
plot, x, y, color=1

;;read in gif image and colors
read_gif, image_gif, r_gif, g_gif, b_gif
TVLCT, r_gif, g_gif, b_gif

;;plot gif image
TVSCL, image_gif, 0.85,0.035, /normal

image = tvrd()
write_png, file_out, image, r, g, b
```

As you can see I have used two r,g,b, color palletes generating the
plots : r,g,b (black and white plot) and r_gif, g_gif, b_gif (from
gif image). This is fine until I need to generate a png file that
only takes one color table.

Any helpful tips?...Merge color tables? Somehow force both plots to
just the same color table (..no keyword option for read_gif)?

Thanks,
Mark

Subject: Re: Write PNG from plots with different color tables??
Posted by Mark Shephard on Wed, 03 Mar 2010 19:16:49 GMT

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On Mar 3, 10:14 am, "ben.bighair" <ben.bigh...@gmail.com> wrote:
> On Mar 2, 2:30 pm, Mark Shephard <mark.w.sheph...@gmail.com> wrote:
>
>
>
>
>
>> Hi PP,
>
>> Thanks for the prompt response. I had already tried what you
>> suggested. When I do so I get a very strange result. The top half is
>> completely black and the bottom half has the plot repeated three times
>> (still using just one of the color tables).
>
>> ----------------
>> | |
>> | BLACK |
>> | |
>> ----------------
>> | |
>> | P1   P1   P1 |
>> | |
>> ----------------
>
>> Any thoughts?
>
>> Thanks,
>> Mark
>
>> On Mar 2, 2:06 pm, pp <pp.pente...@gmail.com> wrote:
>
>>> On Mar 2, 3:51 pm, Mark Shephard <mark.w.sheph...@gmail.com> wrote:
>
>>>> image = tvrd()
>>>> write_png, file_out, image, r, g, b
>
>>> Do it without color tables instead:
>
>>> image=tvrd(true=1)
>>> write_png,file_out,image
>
> Hi,
>
> What happens if you use David Fanning's handy TVREAD rather than IDL's
> built-in TVRD?
>
> http://dfanning.com/color_tips/strange_tvrd.html
>

> Ben- Hide quoted text -
>
> - Show quoted text -

Hi Guys,

THAT WORKS!!!

Thank you very much for all the help.

I set:
DEVICE, set_pixel_depth=24
TVRD(true=1)

David Fanning explaination of TVRD issues was also very helpful. I
also tried his TVREAD(), but it had the same issue as TVRD()....until
I set the pixel depth in the device. This might be due to the fact
that I am using the Z-buffer.

Thanks again for all the help,
Mark

Subject: Re: Write PNG from plots with different color tables??
Posted by David Fanning on Wed, 03 Mar 2010 19:48:29 GMT
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Mark Shephard writes:

> THAT WORKS!!!
>
> Thank you very much for all the help.
>
> I set:
> DEVICE, set_pixel_depth=24
> TVRD(true=1)
>
> David Fanning explaination of TVRD issues was also very helpful. I
> also tried his TVREAD(), but it had the same issue as TVRD()....until
> I set the pixel depth in the device. This might be due to the fact
> that I am using the Z-buffer.

As excited as I am about IDL 8.0, I really worry about
what it is going to take to move a ton of IDL programmers
out of the 1970s. Retirement, I suppose. :-(

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Write PNG from plots with different color tables??
Posted by penteado on Wed, 03 Mar 2010 21:17:10 GMT

On Mar 3, 4:48 pm, David Fanning <n...@dfanning.com> wrote:
> As excited as I am about IDL 8.0, I really worry about
> what it is going to take to move a ton of IDL programmers
> out of the 1970s. Retirement, I suppose. :-(

I am afraid that will not be enough. Because when they retire they
leave behind the next generation, trained by them to keep doing the
same old things, under the principle that "that way does the job".

Just like typewriters, vinyl records, and horse carriages do their
job.