
Subject: Re: Displaying a plot and a true color image on the same window

Posted by [davidf](#) on Sun, 29 Apr 2001 01:06:08 GMT

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Alok Nagdev (nagdev@csee.usf.edu) writes:

- > I'm trying to display a plot using color bar and a few true color image
- > on the same window but as soon as the color table is loaded, the true
- > color image is displayed according to color bar being used. Is there any
- > other way this could be done??

This opens up a whole new line of business for me!

Device, Decomposed=1

Cheers,

David

--

David Fanning, Ph.D.

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: Displaying a plot and a true color image on the same window

Posted by [davidf](#) on Sun, 29 Apr 2001 01:22:09 GMT

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Alok Nagdev (nagdev@csee.usf.edu) writes:

- > I'm trying to display a plot using color bar and a few true color image
- > on the same window but as soon as the color table is loaded, the true
- > color image is displayed according to color bar being used. Is there any
- > other way this could be done?? Images I'm displaying are jpeg images.

Well, now that I read this a little more closely,
I think the problem is that you are trying to
display these images on an 8-bit display. This
makes the problem more difficult, but not
impossible.

What you need to do is make all your images and your
color bar share the same color space. I think the
sensible way to do this is to use COLOR_QUAN with
the CUBE keyword set to 6 on all your image. This

will quantize your colors to 216 values that can faithfully (more or less) represent both the images and (I presume) color bar.

Cheers,

David

--

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Subject: Re: Displaying a plot and a true color image on the same window

Posted by [Alok Nagdev](#) on Mon, 30 Apr 2001 00:09:39 GMT

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```
<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
```

```
<html>
```

```
<font color="#3333FF">Thanks David, but I'm still having the same problem...probably  
I couldn't phrase the problem properly. Here it is again:</font><font color="#3333FF"></font>
```

```
<p><font color="#3333FF">I'm displaying some bytescaled elevation data  
using color table (in my case it's RAINBOW with top WHITE) below this I'm  
trying to display true color jpeg images on the same window. As soon as  
the color table is loaded the color images are displayed according to the  
color table being used, and lose their true color.</font><font color="#3333FF"></font>
```

```
<p><font color="#3333FF">I found that this is due to the color table as  
if I don't load the color table, images are displayed perfectly fine.</font><font  
color="#3333FF"></font>
```

```
<p><font color="#3333FF">Hope this time I phrased it correctly!!</font><font  
color="#3333FF"></font>
```

```
<p><font color="#3333FF">Thanks,</font>
```

```
<br><font color="#3333FF">-Alok</font>
```

```
<br>&nbsp;
```

```
<p>David Fanning wrote:
```

```
<blockquote TYPE=CITE>&nbsp;
```

```
<br>Well, now that I read this a little more closely,
```

```
<br>I think the problem is that you are trying to
```

```
<br>display these images on an 8-bit display. This
```

```
<br>makes the problem more difficult, but not
```

```
<br>impossible.
```

```
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<p>Cheers,
<p>David

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</html>

Subject: Re: Displaying a plot and a true color image on the same window
Posted by [davidf](#) on Mon, 30 Apr 2001 01:21:53 GMT
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Alok Nagdev (nagdev@csee.usf.edu) writes:

> Thanks David, but I'm still having the same problem...probably I couldnt
> phrase the problem properly. Here it is again:
>
> I'm displaying some bytescaled elevation data using color table (in my case
> its RAINBOW with top WHITE) below this I'm trying to display true color jpeg
> images on the same window. As soon as the color table is loaded the color
> images are displayed according to the color table being used, and loose their
> true color.
>
> I found that this is due to the color table as if I dont load the color
> table, images are displayed perfectly fine.
>
> Hope this time I phrased it correctly!!

Well, I think you are phrasing it correctly.
But you still haven't told me what kind of
visual display depth you are using or what kind
of machine you are running IDL on, so I am
still shooting in the dark. But I stand by my
advice:

24-bit color: Device, Decomposed=1
8-bit color: Color_Quan with CUBE=6.

Cheers,

David

--

David Fanning, Ph.D.
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Subject: Re: Displaying a plot and a true color image on the same window
Posted by [davidf](#) on Mon, 30 Apr 2001 01:29:11 GMT
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David Fanning (davidf@dfanning.com) writes:

>> I'm displaying some bytescaled elevation data using color table (in my case
>> its RAINBOW with top WHITE) below this I'm trying to display true color jpeg
>> images on the same window. As soon as the color table is loaded the color
>> images are displayed according to the color table being used, and loose their
>> true color.

Here is something else to try. Use my program TVIMAGE to
display the image data, rather than TV. That way, you
won't have to worry about all the decomposed stuff.
Does that help?

Cheers,

David

--

David Fanning, Ph.D.
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Subject: Re: Displaying a plot and a true color image on the same window
Posted by [Liam E. Gumley](#) on Mon, 30 Apr 2001 14:09:57 GMT
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Alok Nagdev wrote:

> I'm displaying some bytescaled elevation data using color table (in my
> case its RAINBOW with top WHITE) below this I'm trying to display true
> color jpeg images on the same window. As soon as the color table is
> loaded the color images are displayed according to the color table
> being used, and loose their true color.
>

> I found that this is due to the color table as if I don't load the
> color table, images are displayed perfectly fine.

Alok,

See the 8-bit example shown at the top of the IMDISP page:
<http://cimss.ssec.wisc.edu/~gumley/imdisp.html>

Cheers,
Liam.
<http://cimss.ssec.wisc.edu/~gumley/>

Subject: Re: Displaying a plot and a true color image on the same window
Posted by [Martin Schultz](#) on Thu, 03 May 2001 14:25:27 GMT
[View Forum Message](#) <> [Reply to Message](#)

davidf@dfanning.com (David Fanning) writes:

> David Fanning (davidf@dfanning.com) writes:
>
>>> I'm displaying some bytescaled elevation data using color table (in my case
>>> its RAINBOW with top WHITE) below this I'm trying to display true color jpeg
>>> images on the same window. As soon as the color table is loaded the color
>>> images are displayed according to the color table being used, and lose their
>>> true color.
>
> Here is something else to try. Use my program TVIMAGE to
> display the image data, rather than TV. That way, you
> won't have to worry about all the decomposed stuff.
> Does that help?
>
> Cheers,
>
> David

... or read David's article on loading two color tables together
(provided you are using 8 bit colors),

Martin

--

```
[[ Dr. Martin Schultz  Max-Planck-Institut fuer Meteorologie  [[  
[[          Bundesstr. 55, 20146 Hamburg          [[  
[[          phone: +49 40 41173-308          [[  
[[          fax: +49 40 41173-298          [[  
[[ martin.schultz@dkrz.de          [[
```

[illegible]