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Subject: Re: Need Workaroud for UNIX Color Bug  
Posted by [C.E. Ordonez](#) on Sat, 05 Feb 2011 13:07:10 GMT  
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On 02/05/2011 03:49 AM, David Fanning wrote:

> Folks,  
>  
> I have run into the following problem on UNIX machines,  
> including IDL 7 on Mac and IDL 8 on an UBuntu LINUX  
> machine. It seems to be a long standing problem that  
> is giving me grief.  
>  
> Here is the situation. If the following program is  
> run at the very start of a \*NEW\* IDL session, the  
> window will draw a white plot on a white background.  
> Look carefully, because this is \*very\* hard to see. :-)  
>  
> Subsequently, the program will run fine. Here is the  
> simple program:  
>

Hi David,

I'm running IDL 8.0.1 (linux x86\_64 m64) in openSUSE 11.3.

I have the following two lines in my IDL startup file:

```
window, /FREE, /PIXMAP  
if !D.WINDOW ge 0 then wdelete, !D.WINDOW
```

Running your test program, the plot comes up fine the first time.

-Caesar

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Subject: Re: Need Workaroud for UNIX Color Bug  
Posted by [David Fanning](#) on Sat, 05 Feb 2011 14:16:02 GMT  
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C.E. Ordonez writes:

> I'm running IDL 8.0.1 (linux x86\_64 m64) in openSUSE 11.3.  
>  
> I have the following two lines in my IDL startup file:  
>  
> window, /FREE, /PIXMAP  
> if !D.WINDOW ge 0 then wdelete, !D.WINDOW  
>

> Running your test program, the plot comes up fine the first time.

Yes, this is the first thing I thought to try, too.  
But the problem is, running this code in \*either\*  
TEST or MAKEWIDGET (or both!) doesn't solve the  
problem. The window needs to be created outside  
the program I want to run!

This is a very strange and persistent bug. :-(

I spent at least an hour and a half trying all  
kinds of solutions at 3AM and couldn't come up  
with anything I can actually do \*inside\* my  
program to fix it.

Cheers,

David

--

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

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Subject: Re: Need Workaroud for UNIX Color Bug  
Posted by [David Fanning](#) on Sat, 05 Feb 2011 15:36:36 GMT  
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David Fanning writes:

> I spent at least an hour and a half trying all  
> kinds of solutions at 3AM and couldn't come up  
> with anything I can actually do \*inside\* my  
> program to fix it.

I should have taken a shower. :-(

If I just save !P.Color and !P.Background  
before I create the draw widget, and restore  
them after, I can get cgWindow to work again!  
Hurrah!

I'll write a note for the web page.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: Need Workaroud for UNIX Color Bug  
Posted by [R.Bauer](#) on Mon, 07 Feb 2011 08:12:47 GMT  
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Am 05.02.2011 16:36, schrieb David Fanning:

> David Fanning writes:

>

>> I spent at least an hour an a half trying all  
>> kinds of solutions at 3AM and couldn't come up  
>> with anything I can actually do \*inside\* my  
>> program to fix it.

>

> I should have taken a shower. :-(

>

> If I just save !P.Color and !P.Background  
> before I create the draw widget, and restore  
> them after, I can get cgWindow to work again!  
> Hurrah!

>

> I'll write a note for the web page.

>

> Cheers,

>

> David

>

>

Our setup does this trick too

IDL> test

Before MakeWidget:       0   16777215

After MakeWidget:       0   16777215

cheers

Reimar

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Subject: Re: Need Workaroud for UNIX Color Bug  
Posted by [Nigel Wade](#) on Mon, 07 Feb 2011 17:34:50 GMT  
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On 05/02/11 14:16, David Fanning wrote:

```
> C.E. Ordonez writes:
>
>> I'm running IDL 8.0.1 (linux x86_64 m64) in openSUSE 11.3.
>>
>> I have the following two lines in my IDL startup file:
>>
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>> if !D.WINDOW ge 0 then wdelete, !D.WINDOW
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>> Running your test program, the plot comes up fine the first time.
>
> Yes, this is the first thing I thought to try, too.
> But the problem is, running this code in *either*
> TEST or MAKEWIDGET (or both!) doesn't solve the
> problem. The window needs to be created outside
> the program I want to run!
```

It works here. It won't work in makewidget, it has to be done before you set your values for the foreground/background colours.

The problem is the way IDL initializes colour tables, and the way it handles X. Until IDL actually interrogates the X window manager for visuals it doesn't know anything about what X visuals are available. When IDL does eventually get around to initializing the display it has a tendency to overwrite values which you have already set (like the background and foreground colours) for those which it finds in the selected visual. At least I think that's what it's doing, it's all done very much behind closed doors.

The trick is to get IDL to initialize X before you set the colours. The window command should initialize X, so when you actually create your own window and plot to it the values you set for the colours won't get overwritten.

Where did you place Caesar's example code?

This code works for me (I'm using IDL 7.1):

```
pro test2
device, decomposed=1
window, /FREE, /PIXMAP
if !D.WINDOW ge 0 then wdelete, !D.WINDOW
!p.background=16777215L
!p.color=0L
```

```
print, 'Before plot: ', !p.color, !p.background  
plot, findgen(11)  
print, 'After plot: ', !p.color, !p.background  
end
```

Comment out lines 2 and 3 and you get your all white plot.

```
--  
Nigel Wade
```

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