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Subject: Re: Device independent plotting  
Posted by [penteado](#) on Wed, 05 May 2010 11:16:53 GMT  
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Move the calls to `fsc_color` to after the call to `set_plot`. Also, if there were any, after any calls to device that changed the way colors are handled. But keep it before the first use of the colors, obviously.

`fsc_color` looks into the current device to find out which color value to use, so it must be called at a point when the device is in the same state as will be used for plotting.

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Subject: Re: Device independent plotting  
Posted by [David Fanning](#) on Wed, 05 May 2010 12:00:10 GMT  
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pp writes:

> Move the calls to `fsc_color` to after the call to `set_plot`. Also, if  
> there were any, after any calls to device that changed the way colors  
> are handled. But keep it before the first use of the colors,  
> obviously.

Yes, generally speaking, it is easier to write device-independent color programs if colors are loaded when they are needed. In practice this means using `FSC_Color` with your graphics commands. For example, you could do this:

```
; Set up colors for graphics output
axisColor = 'Navy'
dataColor = 'Red'
backgnd = 'White'

; Graphics output.
Plot, ..., COLOR=FSC_Color(axisColor), BACKGROUND=FSC_Color(backgnd)
OPLOT, ..., COLOR=FSC_Color(dataColor)
```

Of course, it seems somewhat redundant to "define" colors first, so I usually just do this:

```
Plot, ..., COLOR=FSC_Color('Navy'), BACKGROUND=FSC_Color('White')
OPLOT, ..., COLOR=FSC_Color('Red')
```

This conveys the message and works well, to boot! :-)

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.")

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Subject: Re: Device independent plotting

Posted by [Karen](#) on Wed, 05 May 2010 13:56:12 GMT

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Thanks, that all works nicely!

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Subject: Re: Device independent plotting

Posted by [pgrigis](#) on Wed, 05 May 2010 14:01:28 GMT

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On May 5, 5:56 am, Karen <k.apl...@physics.ox.ac.uk> wrote:

> I am using IDL workbench on a Mac at work and a PC at home and I'd  
> like my code to plot the same colours independent of device and  
> platform. I've downloaded the FSC\_Color app and read the very helpful  
> documentation by David Fanning. I thought I had followed his  
> instructions carefully for how to get device independent colours, but  
> I can't make it work. At the moment, if I plot to the screen, I get  
> the classic red on black colour scheme,

~~~~~

Does that mean that IDL's broken \*default\* settings for the colors  
have been assimilated internally by so many users that now "red on  
black"  
has achieved the status of being the "classic" color scheme (instead  
of  
the actually intended "white on black")?

Ciao,  
Paolo

Subject: Re: Device independent plotting  
Posted by [penteado](#) on Wed, 05 May 2010 14:20:37 GMT  
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```
> On May 5, 5:56 am, Karen <k.apl...@physics.ox.ac.uk> wrote:> I am using IDL workbench on  
a Mac at work and a PC at home and I'd  
>> like my code to plot the same colours independent of device and  
>> platform. I've downloaded the FSC_Color app and read the very helpful  
>> documentation by David Fanning. I thought I had followed his  
>> instructions carefully for how to get device independent colours, but  
>> I can't make it work. At the moment, if I plot to the screen, I get  
>> the classic red on black colour scheme,  
>  
> ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
>  
>  
> Does that mean that IDL's broken *default* settings for the colors  
> have been assimilated internally by so many users that now "red on  
> black"  
> has achieved the status of being the "classic" color scheme (instead  
> of  
> the actually intended "white on black")?
```

I have actually sort of promoted it into a color scheme: in some old applications I wrote I did not know how to fix it, so I let the red on black, when originally intended for white on black. But I got so used to it, that even after I learned to fix it I left it unchanged. And in some new applications I wrote, even in object graphics, I found myself explicitly choosing (through triplets) red for lines to plot over images.

If anybody is wondering: the "missing" plot lines in Postscript Karen described are actually plotted, but in the same color as the background, so they are not visible.

Subject: Re: Device independent plotting  
Posted by [David Fanning](#) on Wed, 05 May 2010 14:42:25 GMT  
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Page 3 of 5 ---- Generated from [comp.lang.idl-pvwave](#) archive

- > Does that mean that IDL's broken \*default\* settings for the colors
- > have been assimilated internally by so many users that now "red on
- > black"
- > has achieved the status of being the "classic" color scheme (instead
- > of
- > the actually intended "white on black")?

As I have traveled around the world teaching IDL classes, you can't BELIEVE how many people think red on black in the default color scheme. I am hoping Karen was using the term ironically. ;-)

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: Device independent plotting

Posted by [Karen](#) on Wed, 05 May 2010 14:44:26 GMT

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- 
- > If anybody is wondering: the "missing" plot lines in Postscript Karen
  - > described are actually plotted, but in the same color as the
  - > background, so they are not visible.

I figured that out eventually :-)) and now my plots look pretty similar on the Mac and PC and in postscript and on the screen.

To make my code truly platform independent I would like to check what platform I am running on at the start so then I can load the right paths to my files, rather than having to change them by hand every time I swap machine. Is there a command that will tell me whether I am on Mac or PC from within IDL? Sure there's an easy way but I can't find it on the web.

PS I had my tongue firmly in my cheek when referring to the "classic" red/black colour theme - though it has been close to becoming the default on my machine lately :-))

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Subject: Re: Device independent plotting  
Posted by [David Fanning](#) on Wed, 05 May 2010 14:47:28 GMT  
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Karen writes:

> To make my code truly platform independent I would like to check what  
> platform I am running on at the start so then I can load the right  
> paths to my files, rather than having to change them by hand every  
> time I swap machine. Is there a command that will tell me whether I am  
> on Mac or PC from within IDL? Sure there's an easy way but I can't  
> find it on the web.

You are looking for !Version.OS\_Family.

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.")

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Subject: Re: Device independent plotting  
Posted by [penteado](#) on Wed, 05 May 2010 15:02:25 GMT  
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On May 5, 11:47 am, David Fanning <n...@dfanning.com> wrote:

> Karen writes:  
>> To make my code truly platform independent I would like to check what  
>> platform I am running on at the start so then I can load the right  
>> paths to my files, rather than having to change them by hand every  
>> time I swap machine. Is there a command that will tell me whether I am  
>> on Mac or PC from within IDL? Sure there's an easy way but I can't  
>> find it on the web.  
>  
> You are looking for !Version.OS\_Family.

path\_sep() may also be useful, to make sure the right kind of slash is used. Nicely, file\_dirname() and file\_basename() work correctly on any platform when given forward slashes, and return results with the right kind of slash.

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