Subject: graphic functions - CopyWindow()
Posted by Markus Schmassmann on Mon, 16 Oct 2017 12:31:41 GMT
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Hi,

as illustrated in the code below, when I make a plot in direct graphics
all the pixels have either the background color or the plotted color,
but when I use graphic functions and then retrieve the screen with
COPYWINDOW() the colors of the pixels are all over the greyscale.
Setting antiAlias=0 doesn't help either.

Is there a way to retrieve a graphic function screen without expanding
the colortable beyond what originally went into it for plotting?

I hope that by reducing the colortable I can reduce the file size of a
video I create using the COPYWINDOW() method.

Thanks for any help,
Markus

```
p=plot(/test)
hfg =histogram(p.CopyWindow())
hfg2=histogram(p.CopyWindow(antiAlias=0))
device,decomposed=1
plot, hfg>.2,/ylog,background='FFFFFF'x,color=0
oplot, hfg2>.2,color=0
hdg=histogram(tvrd())
print, [hdg[[0,255]],total(hdg[1:254],/int)]
```

Subject: Re: graphic functions - CopyWindow()
Posted by wlandsman on Mon, 16 Oct 2017 15:51:26 GMT
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This doesn't help with your goal of reducing file size, but using a larger output window better preserves the binary colortable For example, with a 8192 x 8192 output window, 99.9% of the pixels will have a value of either 0 or 255.

```
IDL> p=plot(/test)
IDL> hfg =histogram(p.CopyWindow(height=8192,width=8192))
IDL> print,(hfg[0] + hfg[255])/total(hfg)
    0.999231
```

You could always force a bifurcation For example, pixel values greater than 128 are background, and values lower than 128 are graphics.

--Wayne

On Monday, October 16, 2017 at 8:31:44 AM UTC-4, Markus Schmassmann wrote:
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