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Subject: Plot with axis and labels with different colors  
Posted by [mairan.teodoro](#) on Wed, 24 Jul 2013 17:19:25 GMT  
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Hi all,

Is there any easy way of creating a plot with the axis in white and the axis labels in black?

I have an image with black background and would like to show the tick marks in white, and the labels in black.

Thanks for any help.

m.

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Subject: Re: Plot with axis and labels with different colors  
Posted by [David Fanning](#) on Wed, 24 Jul 2013 17:41:15 GMT  
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Mairan Teodoro writes:

> Is there any easy way of creating a plot with the axis in white and the axis labels in black?  
>  
> I have an image with black background and would like to show the tick marks in white, and the labels in black.

```
image = BytArr(300, 300)
image[50,50] = Dist(200,200)
cgLoadct, 5
cgImage, image, /Axes, color='white', OPosition=p, /Fit_Inside
cgPlot, findgen(300), /NoData, /NoErase, Position=p, XStyle=4, YStyle=4
cgPlot, findgen(300), /NoData, /NoErase, Position=p, $
    XTicklen=0.0001, YTicklen=0.0001, XMinor=0, YMinor=0
END
```

Cheers,

David

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

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Subject: Re: Plot with axis and labels with different colors  
Posted by [mairan.teodoro](#) on Thu, 25 Jul 2013 19:02:37 GMT  
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Hi David!

Thanks for the suggestion. However, that's exactly the way I use to create this kind of plot (one CGIMAGE call and two CGPLOT calls).

I was thinking about something like a keyword to define the color of the axis labels... something like

cgPlot, dataX, dataY, axiscolor='white', axislabel='black',...

Cheers,  
m.

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Subject: Re: Plot with axis and labels with different colors  
Posted by [David Fanning](#) on Thu, 25 Jul 2013 19:20:19 GMT  
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Mairan Teodoro writes:

> Thanks for the suggestion. However, that's exactly the way I use to create this kind of plot (one CGIMAGE call and two CGPLOT calls).

>

> I was thinking about something like a keyword to define the color of the axis labels... something like

>

> cgPlot, dataX, dataY, axiscolor='white', axislabel='black',...

Unfortunately, the axis color and the axis label are not separated in the underlying Plot and Axis commands in IDL. That's why you have to do this run-around.

In object graphics, these two colors are separate, so you can do what you like. It's rather round-about in Function Graphics, too, but it is possible. You do it like this:

```
.*****  
,  
im = image(cgdemodata(7))  
p = im.POSITION  
p = plot(indgen(360), position=p, /current, /nodata)  
axes = p.axes  
for j=0,3 do axes[j].color = 'white'  
for j=0,3 do axes[j].text_color = 'black'  
.*****  
,
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

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