
Subject: Re: cgPlot question

Posted by [Gray](#) on Tue, 15 Feb 2011 18:39:01 GMT

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On Feb 15, 1:37 pm, Gray <grayliketheco...@gmail.com> wrote:

> Quick question - does cgPlot allow arrays to be passed as psym and/or
> color? Or do they have to be scalar?

Never mind, I can just use cgPlotS! Ha. I'm switching from NG to CG because NG is taking ~3 hours on my brand new iMac to create a single plot. I have to remind myself what's available in DG/CG.

Subject: Re: cgPlot question

Posted by [Gray](#) on Tue, 15 Feb 2011 18:47:57 GMT

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On Feb 15, 1:39 pm, Gray <grayliketheco...@gmail.com> wrote:

> On Feb 15, 1:37 pm, Gray <grayliketheco...@gmail.com> wrote:
>
>> Quick question - does cgPlot allow arrays to be passed as psym and/or
>> color? Or do they have to be scalar?
>
> Never mind, I can just use cgPlotS! Ha. I'm switching from NG to CG
> because NG is taking ~3 hours on my brand new iMac to create a single
> plot. I have to remind myself what's available in DG/CG.

Actually, I do have a question.

I'm using cgplot, and I'd like to put some error bars on an overplot. I could use oploterror or some such, but I can't get them to show up even if I do color=cgcolor('black') - they stay white and are lost in the background. Help?

Subject: Re: cgPlot question

Posted by [David Fanning](#) on Tue, 15 Feb 2011 20:36:10 GMT

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Gray writes:

> I'm using cgplot, and I'd like to put some error bars on an overplot.
> I could use oploterror or some such, but I can't get them to show up
> even if I do color=cgcolor('black') - they stay white and are lost in
> the background. Help?

Sorry, I took an hour to take a walk in the sunshine. First

time I've been out of my cell for several months. :-)

Well, first of all, OPLOTERR is brain dead. So, I can't do much about that. (I assume this is what you mean by OPLOTERROR?)

But this works:

```
!P.Background = cgColor('white', 254)
!P.Color = cgColor('black', 253)
x = indgen(101)
y = cgDemoData(1)
errors = randomu(-3L, 101)*4
cgPlot, x, y
oploterr, x, y, errors
```

Is that what you mean?

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.")

Subject: Re: cgPlot question

Posted by [Gray](#) on Tue, 15 Feb 2011 20:42:52 GMT

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On Feb 15, 3:36 pm, David Fanning <n...@idlcoyote.com> wrote:

> Gray writes:

>> I'm using cgplot, and I'd like to put some error bars on an overplot.

>> I could use oploterror or some such, but I can't get them to show up

>> even if I do color=cgcolor('black') - they stay white and are lost in

>> the background. Help?

>

> Sorry, I took an hour to take a walk in the sunshine. First

> time I've been out of my cell for several months. :-)

>

> Well, first of all, OPLOTERR is brain dead. So,

> I can't do much about that. (I assume this is what

> you mean by OPLOTERROR?)

>

> But this works:

>

```
> !P.Background = cgColor('white', 254)
> !P.Color = cgColor('black', 253)
> x = indgen(101)
> y = cgDemoData(1)
> errors = randomu(-3L, 101)*4
> cgPlot, x, y
> oploterr, x, y, errors
>
> Is that what you mean?
>
> 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.")
```

oploterror is a wrapper for oploterr from the NASA astronomy IDL library. I'll try what you wrote when I get home.

More questions! I have ImageMagick installed. When I run convert -version from my normal bash command line, it works fine, but PS_END can't find it. Help?

Also, PS_START seems to be ignoring my xsize and ysize keywords; the following gives me an 8.5x11 ps output:

```
IDL> ps_start, /nomatch, xsize=10., ysize=10., /
inches,filename=filt[sfilt]+'_'+dn+'.ps'
```

Subject: Re: cgPlot question

Posted by [David Fanning](#) on Tue, 15 Feb 2011 20:53:39 GMT

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Gray writes:

```
> oploterror is a wrapper for oploterr from the NASA astronomy IDL
> library. I'll try what you wrote when I get home.
```

OK, well, this works for me, too, then:

```
x = indgen(101)
y = cgDemoData(1)
errors = randomu(-3L, 101)*4
cgPlot, x, y
```

```
oploterror, x, y, errors, errcolor=cgcolor('black')
```

> More questions! I have ImageMagick installed. When I run convert -
> version from my normal bash command line, it works fine, but PS_END
> can't find it. Help?

PS_END spawns the "convert" command to check for its presence.
If it can't find it, I presume it is because the "convert" command
is not on the path of the shell running IDL. Macintosh computers
are a bit of a mystery to me, so if you have a suggestion for how
I can solve this problem, I'm all ears.

Someone suggested a configuration parameter that could locate
ImageMagick. Maybe I'll look into that a bit.

> Also, PS_START seems to be ignoring my xsize and ysize keywords; the
> following gives me an 8.5x11 ps output:
>
> IDL> ps_start, /nomatch, xsize=10., ysize=10., /
> inches,filename=filts[filt]+'_'+dn+'.ps'

Humm. That might be a PSConfig limitation. I'll look into it
and get back to you.

Cheers,

David

--

David Fanning, Ph.D.
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Subject: Re: cgPlot question
Posted by [David Fanning](#) on Tue, 15 Feb 2011 21:18:13 GMT
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Gray writes:

> Also, PS_START seems to be ignoring my xsize and ysize keywords; the
> following gives me an 8.5x11 ps output:
>
> IDL> ps_start, /nomatch, xsize=10., ysize=10., /
> inches,filename=filts[filt]+'_'+dn+'.ps'

Well, there doesn't appear to be any restrictions from either PS_START or PSCONFIG. The results come back with a window that is 10 inches by 10 inches.

Of course, you can't put a 10x10 inch window on a normal "page" of PostScript output, so you need to tell me what you are doing here. Are you plotting this on some plotter or something? What makes you think there is a "problem"?

Cheers,

David

--

David Fanning, Ph.D.

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Subject: Re: cgPlot question

Posted by [Gray](#) on Tue, 15 Feb 2011 23:43:15 GMT

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On Feb 15, 4:18 pm, David Fanning <n...@idlcoyote.com> wrote:

> Gray writes:

>> Also, PS_START seems to be ignoring my xsize and ysize keywords; the

>> following gives me an 8.5x11 ps output:

>

>> IDL> ps_start, /nomatch, xsize=10., ysize=10., /

>> inches,filename=filt[filts[filts]+'_'+dn+'.ps'

>

> Well, there doesn't appear to be any restrictions

> from either PS_START or PSCONFIG. The results come

> back with a window that is 10 inches by 10 inches.

>

> Of course, you can't put a 10x10 inch window on

> a normal "page" of PostScript output, so you need

> to tell me what you are doing here. Are you plotting

> this on some plotter or something? What makes you

> think there is a "problem"?

>

> 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.")

Odd. I'll email you, this may need more detail than is effective for the newsgroup.

Subject: Re: cgPlot question
Posted by [Gray](#) on Wed, 16 Feb 2011 17:59:52 GMT
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On Feb 15, 6:43 pm, Gray <grayliketheco...@gmail.com> wrote:
> On Feb 15, 4:18 pm, David Fanning <n...@idlcoyote.com> wrote:

V V V V V V V

>> Gray writes:

```
>>> Also, PS_START seems to be ignoring my xsize and ysize keywords; the
>>> following gives me an 8.5x11 ps output:
```

 \vee

```
>>> IDL> ps_start, /nomatch, xsize=10., ysize=10., /
>>> inches, filename=filts[filnt]+' '+dn+'.ps'
```

 ∇

```
>> Well, there doesn't appear to be any restrictions
>> from either PS_START or PSCONFIG. The results come
>> back with a window that is 10 inches by 10 inches.
```

 \vee

```
>> Of course, you can't put a 10x10 inch window on
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>> to tell me what you are doing here. Are you plotting
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 ∇

>> Cheers,

 \vee

>> David

>> --

>> David Fanning, Ph.D.

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

 ∇

> Odd. I'll email you, this may need more detail than is effective for
> the newsgroup.

Can you put in a /SILENT keyword for PS_END?
