
Subject: Axis Labels

Posted by [Gompie](#) on Tue, 31 Dec 2013 05:40:19 GMT

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Hi,

I am trying to plot using the command

```
cgplot,scan,r_mean,yrange=[-0.7,0.3],xrange=[-50,50], title=TTITLE,BACKGROUND = 255,  
YTITLE=TextLabel,XTITLE='IASI SCAN ANGLE (deg)',COLOR = 3,symsize=1.5,  
thick=2.3,min_value=-50,FONT =1,CHARSIZE=2.7,xstyle=0
```

I want my xaxis labels to start with -50 with interval of 10 and end with 50.

But using xstyle=1 does force my plot to -50,50 by the labels are only displayed -40 to 40 with plot extending beyond -40 and 40.

When I use xstyle=0 the plot goes from -60 to 60.

Please help

Glanplon

Subject: Re: Axis Labels

Posted by [David Fanning](#) on Tue, 31 Dec 2013 06:18:11 GMT

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Gompie writes:

> I am trying to plot using the command

```
>  
> cgplot,scan,r_mean,yrange=[-0.7,0.3],xrange=[-50,50], title=TTITLE,BACKGROUND = 255,  
YTITLE=TextLabel,XTITLE='IASI SCAN ANGLE (deg)',COLOR = 3,symsize=1.5,  
thick=2.3,min_value=-50,FONT =1,CHARSIZE=2.7,xstyle=0
```

>
> I want my xaxis labels to start with -50 with interval of 10 and end with 50.

>
> But using xstyle=1 does force my plot to -50,50 by the labels are only displayed -40 to 40 with
plot extending beyond -40 and 40.

>
> When I use xstyle=0 the plot goes from -60 to 60.

Add XTICKS=10.

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.")

Subject: Re: Axis Labels
Posted by [Gompie](#) on Tue, 31 Dec 2013 18:09:29 GMT
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Hi David,
Thanks for that. But my axis fonts and numbers are not of good quality, appear thick and thin.

https://drive.google.com/file/d/0B-c7rZr_rKoSbnQ1TzcwTTNSM1E/edit?usp=sharing

I am using the cgplot command i listed earlier and to make gif I use...

```
outfile="example.gif"
print,outfile
WRITE_GIF, outfile, TVRD()
result = cgSnapshot(FILENAME="example",/gif ,/nodialog)
```

Any help.
GlanPlon

Subject: Re: Axis Labels
Posted by [David Fanning](#) on Tue, 31 Dec 2013 18:14:10 GMT
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Gompie writes:

```
> Thanks for that. But my axis fonts and numbers are not of good quality, appear thick and thin.
>
> https://drive.google.com/file/d/0B-c7rZr_rKoSbnQ1TzcwTTNSM1E/edit?usp=sharing
>
> I am using the cgplot command i listed earlier and to make gif I use...
>
> outfile="example.gif"
> print,outfile
> WRITE_GIF, outfile, TVRD()
> result = cgSnapshot(FILENAME="example",/gif ,/nodialog)
```

I can imagine. :-)

I would install ImageMagick and do this:

```
cgps_open, 'example.gif'
```

```
cgPlot, ...
cgps_close
```

Cheers,

David

--

David Fanning, Ph.D.
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Subject: Re: Axis Labels
Posted by [David Fanning](#) on Tue, 31 Dec 2013 18:15:38 GMT
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David Fanning writes:

```
>
> Gompie writes:
>
>> Thanks for that. But my axis fonts and numbers are not of good quality, appear thick and thin.
>>
>> https://drive.google.com/file/d/0B-c7rZr\_rKoSbnQ1TzcwTTNSM1E/edit?usp=sharing
>>
>> I am using the cgplot command i listed earlier and to make gif I use...
>>
>> outfile="example.gif"
>> print,outfile
>> WRITE_GIF, outfile, TVRD()
>> result = cgSnapshot(FILENAME="example",/gif ,/nodialog)
>
> I can imagine. :-)
>
> I would install ImageMagick and do this:
>
> cgps_open, 'example.gif'
> cgPlot, ...
> cgps_close
```

Or, more simply, since you only have one cgPlot command:

```
cgPlot, ..., Output='example.gif'
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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Subject: Re: Axis Labels

Posted by [Gompie](#) on Tue, 31 Dec 2013 20:11:42 GMT

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Thanks David,

I have multiple cgplot cgerror cgtext overlaying

I dont have imagemagic and cannot install it.

Do you have a way out or suggest fonts that would yeild good quality in the situation I am in.

Subject: Re: Axis Labels

Posted by [David Fanning](#) on Tue, 31 Dec 2013 20:15:28 GMT

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Gompie writes:

> I have multiple cgplot cgerror cgtext overlaying

> I dont have imagemagic and cannot install it.

> Do you have a way out or suggest fonts that would yeild good quality in the situation I am in.

Function graphics, if they work, are always a fallback. The Plot()
function has been fairly reliable.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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Subject: Re: Axis Labels

Posted by [Gompie](#) on Tue, 31 Dec 2013 22:26:02 GMT

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Thanks David,
If I were to use Plot() Function graphics and wish to overplot then

1. What is the equivalent of cgtext
2. What is the equivalent of cgerror
3. What is the equivalent of xticks

Thanks again,
GlanPlon

Subject: Re: Axis Labels

Posted by [David Fanning](#) on Tue, 31 Dec 2013 22:37:53 GMT

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Gompie writes:

- > If I were to use Plot() Function graphics and wish to overplot then
- > 1. What is the equivalent of cgtext

Text()

- > 2. What is the equivalent of cgerror

I don't know, I'm not familiar with cgError. Maybe ErrorPlot()?

- > 3. What is the equivalent of xticks

I don't know this, either. Maybe the XTickInterval keyword?

I'm not terribly familiar with function graphics routines. Sorry. :-(

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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Subject: Re: Axis Labels

Posted by [Gompie](#) on Mon, 06 Jan 2014 17:50:55 GMT

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Hi David,

Thanks for that Function Graphics work great.

Is there a function to get the font information (type size thickness), that goes into a plot creation ?

Rgds

Gompie

Subject: Re: Axis Labels

Posted by [David Fanning](#) on Mon, 06 Jan 2014 17:57:27 GMT

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Gompie writes:

> Is there a function to get the font information (type size thickness), that goes into a plot creation ?

Well, uh, you are *creating* the plot, right? I must be misunderstanding something.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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Subject: Re: Axis Labels

Posted by [Yngvar Larsen](#) on Tue, 07 Jan 2014 11:52:01 GMT

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On Monday, 6 January 2014 18:50:55 UTC+1, Gompie wrote:

> Hi David,

>

> Thanks for that Function Graphics work great.

>

> Is there a function to get the font information (type size thickness), that goes into a plot creation ?

I guess you are looking for the following information? Incidentally, you should have provided this information during creation yourself, unless you want the default (Helvetica, 12pt, Roman).

```
IDL> p = plot([0,1], [0,1])
```

```
IDL> t = text(0.6, 0.4, 'Some text', font_name='Times', font_size=16)
```

```
IDL> print, t.font_name, t.font_size
```

```
Times      16.000000
```

```
IDL> case t.font_style of 0: print, 'Roman' & 1: print, 'Bold' & 2: print, 'Italic' & 3: print, 'Bold Italic' &
endcase
Roman
```

See also:

<http://www.exelisvis.com/docs/TEXT.html>

Or are you looking for the fonts on the plot axes? Those are properties of the plot object P, with the same names:

```
IDL> print, p.font_name, p.font_size, p.font_style
Helvetica    12.000000    0
```

or check the properties of the axes "inside" the object P":

```
IDL> help, p.axes
<Expression>  OBJREF  = Array[4]
IDL> for ii=0,3 do print, (p.axes)[ii].tickfont_name
Helvetica
Helvetica
Helvetica
Helvetica
IDL> for ii=0,3 do print, (p.axes)[ii].tickfont_size
12.000000
12.000000
12.000000
12.000000
IDL> for ii=0,3 do print, (p.axes)[ii].tickfont_style
0
0
0
0
```

--

Yngvar

Subject: Re: Axis Labels
Posted by [Gompie](#) on Tue, 07 Jan 2014 16:08:19 GMT
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Thanks Yngvar !!! That was indeed what I was looking for...
GlanPlon
