Subject: changing the format of axis

Posted by khorsand10 on Mon, 21 Nov 2011 17:05:36 GMT

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I want to plot some value data (0.2,0.1,0.5) against text data ('55', '-40', '0'). When I plot them, it seems the text data are conveted to float data and are shown as values with the same intervales like 50, 0, -50. I wonder how I can change the format of text data that it shows the exact values?

Subject: Re: changing the format of axis

Posted by Brian Wolven on Mon, 21 Nov 2011 21:57:13 GMT

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You'll need to use the [XYZ]TICKV keyword, as documented in the PLOT procedure.

Subject: Re: changing the format of axis

Posted by khorsand10 on Tue, 22 Nov 2011 12:52:16 GMT

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On Nov 21, 9:57 pm, Brian Wolven

 drian.wol...@gmail.com> wrote:

> You'll need to use the [XYZ]TICKV keyword, as documented in the PLOT procedure.

well, it still doesnt show the x values on X Axis.

y=[0.1,0.5,0.2,0.4,0.13]

x=[-12,-8,0,5,10]

plot,x,y,xtickv=x

Subject: Re: changing the format of axis

Posted by Jeremy Bailin on Tue, 22 Nov 2011 16:00:07 GMT

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On 11/22/11 7:52 AM, khorsand10@yahoo.com wrote:

- > On Nov 21, 9:57 pm, Brian Wolven

 sprian.wol...@gmail.com> wrote:
- >> You'll need to use the [XYZ]TICKV keyword, as documented in the PLOT procedure.
- > well, it still doesnt show the x values on X Axis.
- > y=[0.1,0.5,0.2,0.4,0.13]
- > x=[-12,-8,0,5,10]
- > plot,x,y,xtickv=x

>

From the IDL help:

```
Note
```

To specify the number of ticks and their values exactly, set [XYZ]TICKS=N(where N > 1) and [XYZ]TICKV=Values, where Values has N+1 elements.

So if I do plot, x, y, xtickv=x, xticks=n_elements(x)-1 then I get what you want.

-Jeremy.

Subject: Re: changing the format of axis
Posted by khorsand10 on Tue, 22 Nov 2011 20:58:24 GMT
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On Nov 22, 4:00 pm, Jeremy Bailin <astroco...@gmail.com> wrote: > On 11/22/11 7:52 AM, khorsan...@yahoo.com wrote: > >> On Nov 21, 9:57 pm, Brian Wolven

brian.wol...@gmail.com> wrote: >>> You'll need to use the [XYZ]TICKV keyword, as documented in the PLOT procedure. > >> well, it still doesnt show the x values on X Axis. y=[0.1,0.5,0.2,0.4,0.13]x=[-12,-8,0,5,10]>> >> plot,x,y,xtickv=x From the IDL help: > Note > To specify the number of ticks and their values exactly, set > [XYZ]TICKS=N(where N > 1) and [XYZ]TICKV=Values, where Values has N+1 > elements. > So if I do > plot, x, y, xtickv=x, xticks=n_elements(x)-1 > > then I get what you want. > -Jeremy.

Thanks Jeremy, it works.

Do you know how I can do this iplot function?

Subject: Re: changing the format of axis Posted by Jeremy Bailin on Wed, 23 Nov 2011 14:22:49 GMT

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```
On 11/22/11 3:58 PM, khorsand10@yahoo.com wrote:
> On Nov 22, 4:00 pm, Jeremy Bailin<astroco...@gmail.com> wrote:
>> On 11/22/11 7:52 AM, khorsan...@yahoo.com wrote:
>>
>>> On Nov 21, 9:57 pm, Brian Wolven<bri>wrote:
>>> You'll need to use the [XYZ]TICKV keyword, as documented in the PLOT procedure.
>>
>>> well, it still doesnt show the x values on X Axis.
      y=[0.1,0.5,0.2,0.4,0.13]
>>>
      x=[-12,-8,0,5,10]
>>> plot,x,y,xtickv=x
>>
    From the IDL help:
>>
>> Note
>> To specify the number of ticks and their values exactly, set
>> [XYZ]TICKS=N(where N> 1) and [XYZ]TICKV=Values, where Values has N+1
>> elements.
>>
>> So if I do
>> plot, x, y, xtickv=x, xticks=n_elements(x)-1
>> then I get what you want.
>>
>> -Jeremy.
> Thanks Jeremy, it works.
> Do you know how I can do this iplot function?
Sorry, I very rarely use iplot so I don't know.
-Jeremy.
```

```
Subject: Re: changing the format of axis
Posted by David Fanning on Wed, 23 Nov 2011 14:48:43 GMT
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```

```
Jeremy Bailin writes:
```

```
>>> So if I do
>>> plot, x, y, xtickv=x, xticks=n_elements(x)-1
>>>
>>> then I get what you want.
```

```
>>> -Jeremy.
>>
>> Thanks Jeremy, it works.
>> Do you know how I can do this iplot function?
> Sorry, I very rarely use iplot so I don't know.
Seriously, why would you *want* to use iPlot!?
If you want to put this into a resizeable window
where you can save it to all kinds of output formats,
etc., then just do this:
 cgPlot, x, y, xtickv=x, xticks=n_elements(x)-1, /Window
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: changing the format of axis
Posted by khorsand10 on Wed, 23 Nov 2011 16:04:30 GMT
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```
On Nov 23, 2:48 pm, David Fanning <n...@dfanning.com> wrote:

> Jeremy Bailin writes:

>>> So if I do

>>> plot, x, y, xtickv=x, xticks=n_elements(x)-1

> >>> then I get what you want.

> >>> -Jeremy.

> >>> Thanks Jeremy, it works.

>>> Do you know how I can do this iplot function?

> >> Sorry, I very rarely use iplot so I don't know.

> Seriously, why would you *want* to use iPlot!?

> If you want to put this into a resizeable window
```

where you can save it to all kinds of output formats,
etc., then just do this:
cgPlot, x, y, xtickv=x, xticks=n_elements(x)-1, /Window
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.")

Thanks David. I want to insert legend as well. In iplot I can easily add '/Insert_Legend' to do that but I don't know how to do it using plot, plots or cgplot.

Subject: Re: changing the format of axis
Posted by David Fanning on Wed, 23 Nov 2011 16:11:33 GMT
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khorsand10@yahoo.com writes:

- > Thanks David. I want to insert legend as well. In iplot I can easily
- > add '/Insert_Legend' to do that but I don't know how to do it using
- > plot, plots or cgplot.

In Coyote Graphics we do this by using the NASA routine AL LEGEND:

http://www.idlcoyote.com/cg_tips/al_legend.php

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: changing the format of axis Posted by khorsand10 on Wed, 23 Nov 2011 17:18:27 GMT

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On Nov 23, 4:11 pm, David Fanning <n...@dfanning.com> wrote: > khorsan...@yahoo.com writes: >> Thanks David. I want to insert legend as well. In iplot I can easily >> add '/Insert_Legend' to do that but I don't know how to do it using >> plot, plots or caplot. > > In Coyote Graphics we do this by using the NASA routine > AL LEGEND: > http://www.idlcoyote.com/cg_tips/al_legend.php > > > 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.")

well, I'm getting this error while using caplot:

% Attempt to call undefined procedure/function: 'ERROR_MESSAGE'.
% Execution halted at: CGPLOT 196 C:\IDL_codes\allcodes
\cgplot.pro
% CGPLOT 196 C:\IDL_codes\allcodes
\cgplot.pro
% REF2_IN_5VA 116 C:\RS\codes
\ref2_in_5va.pro
% \$MAIN\$

any idea whats the problem?

Subject: Re: changing the format of axis
Posted by David Fanning on Wed, 23 Nov 2011 17:32:43 GMT
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khorsand10@yahoo.com writes:

- > well, I'm getting this error while using cgplot:
- > % Attempt to call undefined procedure/function: 'ERROR_MESSAGE'.

> % Execution halted at: CGPLOT 196 C:\IDL codes\allcodes > \cgplot.pro > % **CGPLOT** 196 C:\IDL_codes\allcodes > \cgplot.pro 116 C:\RS\codes REF2_IN_5VA > \ref2_in_5va.pro > % \$MAIN\$ > any idea whats the problem? You don't have the Coyote Library on your IDL path: http://www.idlcoyote.com/code_tips/installcoyote.php 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: changing the format of axis Posted by khorsand10 on Wed, 23 Nov 2011 18:02:55 GMT View Forum Message <> Reply to Message On Nov 23, 5:32 pm, David Fanning <n...@dfanning.com> wrote: > khorsan...@yahoo.com writes: >> well, I'm getting this error while using cgplot: > >> % Attempt to call undefined procedure/function: 'ERROR MESSAGE'. >> % Execution halted at: CGPLOT 196 C:\IDL codes\allcodes >> \cgplot.pro >> % CGPLOT 196 C:\IDL_codes\allcodes >> \cgplot.pro >> % REF2_IN_5VA 116 C:\RS\codes >> \ref2 in 5va.pro >> % \$MAIN\$ >> any idea whats the problem? > You don't have the Coyote Library on your IDL path:

http://www.idlcoyote.com/code_tips/installcoyote.php

>

- > 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.")

I installed the Coyote Library on my IDL path but now got the following system error:

CGPLOT-->Expression must be a scalar or 1 element array in this context<Byte Array[3]>.

It's probably because I used '/overplot' or a value color like 'color=[0,0,0].

Do you know how I can fix it?

Subject: Re: changing the format of axis

Posted by Brian Wolven on Wed, 23 Nov 2011 18:07:02 GMT

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I'm pretty darn sure he does.;)

Subject: Re: changing the format of axis

Posted by David Fanning on Wed, 23 Nov 2011 18:09:19 GMT

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khorsand10@yahoo.com writes:

- > I installed the Coyote Library on my IDL path but now got the
- > following system error:
- > CGPLOT-->Expression must be a scalar or 1 element array in this
- > context<Byte Array[3]>.

>

- > It's probably because I used '/overplot' or a value color like
- > 'color=[0,0,0].
- > Do you know how I can fix it?

Yes, use color names: 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 thui. ("Perhaps thou speakest truth.")

Subject: Re: changing the format of axis
Posted by David Fanning on Wed, 23 Nov 2011 18:20:15 GMT
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David Fanning writes:

>

> khorsand10@yahoo.com writes:

>

- >> I installed the Coyote Library on my IDL path but now got the
- >> following system error:
- >> CGPLOT-->Expression must be a scalar or 1 element array in this
- >> context<Byte Array[3]>.

>>

- >> It's probably because I used '/overplot' or a value color like
- >> 'color=[0,0,0].
- >> Do you know how I can fix it?

>

> Yes, use color names: color="black".

By the way, if you didn't want to use color names for some reason (e.g., you prefer writing obscure code that nobody can understand or you are so anal that you can't abide any of the 200 standard colors provided) you can always convert your color triple to a 24-bit value that can be used by Coyote Graphics routines:

cgPlot, data, COLOR=Color24([154,93,243])

I've been thinking of adding this to the Coyote Graphics commands directly, but haven't gotten around to it yet. It won't happen today, because if I don't start cleaning the house ASAP I'll be living in the same dog house Coyote is living in!

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: changing the format of axis Posted by khorsand10 on Wed, 23 Nov 2011 18:27:12 GMT

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On Nov 23, 6:09 pm, David Fanning <n...@dfanning.com> wrote:

- > khorsan...@yahoo.com writes:
- >> I installed the Coyote Library on my IDL path but now got the
- >> following system error:
- >> CGPLOT-->Expression must be a scalar or 1 element array in this
- >> context<Byte Array[3]>.

>

- >> It's probably because I used '/overplot' or a value color like
- >> 'color=[0,0,0].
- >> Do you know how I can fix it?

>

> Yes, use color names: 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 thui. ("Perhaps thou speakest truth.")

Thanks David. I used Al_Legend to add the legend. it added the items but didnt add the colors. it seems Al_Legend function just accepts psym and not color.

al_legend,['Urban','Forest','Water'],color=['black','green', 'blue']

Subject: Re: changing the format of axis
Posted by khorsand10 on Wed, 23 Nov 2011 18:31:48 GMT
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On Nov 23, 6:20 pm, David Fanning <n...@dfanning.com> wrote:

```
> David Fanning writes:
>> khorsan...@yahoo.com writes:
>>> I installed the Coyote Library on my IDL path but now got the
>>> following system error:
>>> CGPLOT-->Expression must be a scalar or 1 element array in this
>>> context<Byte Array[3]>.
>>> It's probably because I used '/overplot' or a value color like
>>> 'color=[0,0,0].
>>> Do you know how I can fix it?
>
>> Yes, use color names: color="black".
> By the way, if you didn't want to use color names for
> some reason (e.g., you prefer writing obscure code that
> nobody can understand or you are so anal that you can't
> abide any of the 200 standard colors provided) you can
> always convert your color triple to a 24-bit value that
 can be used by Coyote Graphics routines:
>
    cgPlot, data, COLOR=Color24([154,93,243])
>
>
> I've been thinking of adding this to the Coyote Graphics
> commands directly, but haven't gotten around to it yet. It
> won't happen today, because if I don't start cleaning the
> house ASAP I'll be living in the same dog house Coyote is
> living in!
>
  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.")
```

That's a good idea David since it doesn't accept some names for colors.

Lol, I think my room is more like my IDL codes folder.

Subject: Re: changing the format of axis Posted by David Fanning on Wed, 23 Nov 2011 18:41:55 GMT khorsand10@yahoo.com writes:

- > Thanks David. I used Al Legend to add the legend. it added the items
- > but didnt add the colors. it seems Al_Legend function just accepts
- > psym and not color.
- > al_legend,['Urban','Forest','Water'],color=['black','green', 'blue']

Well, I'm not sure which version of AL_LEGEND you are using, but my version works correctly. Maybe you are running into this problem:

http://www.idlcoyote.com/cg_tips/legcolor.php

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: changing the format of axis Posted by manodeep@gmail.com on Wed, 23 Nov 2011 21:18:46 GMT View Forum Message <> Reply to Message

On Nov 23, 12:27 pm, khorsan...@yahoo.com wrote:

> On Nov 23, 6:09 pm, David Fanning <n...@dfanning.com> wrote:

> >

>

>

>

>

_

>> khorsan...@yahoo.com writes:

>>> I installed the Coyote Library on my IDL path but now got the

>>> following system error:

>>> CGPLOT-->Expression must be a scalar or 1 element array in this

>>> context<Byte Array[3]>.

>

>>> It's probably because I used '/overplot' or a value color like

```
>>> 'color=[0,0,0].
>>> Do you know how I can fix it?
>
>> Yes, use color names: 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 thui. ("Perhaps thou speakest truth.")
>
> Thanks David. I used Al_Legend to add the legend. it added the items
> but didnt add the colors. it seems Al_Legend function just accepts
> psym and not color.
> al_legend,['Urban','Forest','Water'],color=['black','green', 'blue']
```

If all you want are the names of the "items" written in various colors then you should use textcolor=['black',..]

Subject: Re: changing the format of axis
Posted by khorsand10 on Thu, 24 Nov 2011 10:18:22 GMT
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```
On Nov 23, 6:41 pm, David Fanning <n...@dfanning.com> wrote:
> khorsan...@yahoo.com writes:
>> Thanks David. I used Al_Legend to add the legend. it added the items
>> but didnt add the colors. it seems Al Legend function just accepts
>> psym and not color.
>> al_legend,['Urban','Forest','Water'],color=['black','green', 'blue']
> Well, I'm not sure which version of AL_LEGEND you are using,
> but my version works correctly. Maybe you are running into
> this problem:
>
   http://www.idlcoyote.com/cg_tips/legcolor.php
>
 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.")

Thanks David. The problem was I didn't use 'Linestyle=0'.

Subject: Re: changing the format of axis

```
Posted by khorsand10 on Thu, 24 Nov 2011 10:19:22 GMT
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On Nov 23, 9:18 pm, Manodeep Sinha <manod...@gmail.com> wrote:
> On Nov 23, 12:27 pm, khorsan...@yahoo.com wrote:
>
>
>
>
>
>
>
  On Nov 23, 6:09 pm, David Fanning <n...@dfanning.com> wrote:
>>> khorsan...@yahoo.com writes:
>>>> I installed the Coyote Library on my IDL path but now got the
>>> following system error:
>>>> CGPLOT-->Expression must be a scalar or 1 element array in this
>>> context<Byte Array[3]>.
>>>> It's probably because I used '/overplot' or a value color like
>>>> 'color=[0,0,0].
>>>> Do you know how I can fix it?
>>> Yes, use color names: 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 thui. ("Perhaps thou speakest truth.")
>
>> Thanks David. I used Al_Legend to add the legend. it added the items
>> but didnt add the colors. it seems Al_Legend function just accepts
>> psym and not color.
```

```
>> al_legend,['Urban','Forest','Water'],color=['black','green', 'blue']
> 
> If all you want are the names of the "items" written in various colors
> then you should use textcolor=['black',..]
```

Thanks Manodeep. It was a useful tip.

Subject: Re: changing the format of axis
Posted by khorsand10 on Thu, 24 Nov 2011 10:25:12 GMT
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```
On Nov 23, 2:48 pm, David Fanning <n...@dfanning.com> wrote:
> Jeremy Bailin writes:
>>>> So if I do
>>> plot, x, y, xtickv=x, xticks=n_elements(x)-1
>>>> then I get what you want.
>>>> -Jeremy.
>
>>> Thanks Jeremy, it works.
>>> Do you know how I can do this iplot function?
>> Sorry, I very rarely use iplot so I don't know.
> Seriously, why would you *want* to use iPlot!?
> If you want to put this into a resizeable window
> where you can save it to all kinds of output formats,
> etc., then just do this:
>
    cgPlot, x, y, xtickv=x, xticks=n_elements(x)-1, /Window
>
>
 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.")
```

The graph created by iPlot looks nicer than the one produced by Plot function, i.e. the text format. I also can move the legend window to an empty place on the graph easily. If only I can add something like 'xtickv=x, xticks=n_elements(x)-1' to iPlot ...

Subject: Re: changing the format of axis Posted by khorsand10 on Thu, 24 Nov 2011 10:28:02 GMT

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Thanks David. That code was useful. I figured out I forgot to use 'Linestyle' in Al_Legend.

Subject: Re: changing the format of axis
Posted by David Fanning on Thu, 24 Nov 2011 14:22:24 GMT
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khorsand10@yahoo.com writes:

- > The graph created by iPlot looks nicer than the one produced by Plot
- > function, i.e. the text format. I also can move the legend window to
- > an empty place on the graph easily. If only I can add something like
- > 'xtickv=x, xticks=n_elements(x)-1' to iPlot ...

The one big advantage of Coyote Graphics legends, of course, is that they stay in the same place when the graphics window is resized. The reason you have to move the damn iPlot legend so much is that when you resize the window you don't know where in in the world it might show up! :-)

http://www.idlcoyote.com/ng_tips/loglegend.php

I agree that object graphics plots look better on the display. But, who cares? I'm the only one looking at them. The key is having them look good when they are shown to someone else. The PostScript files produced by Coyote Graphics are sometimes orders of magnitude smaller than the PostScript files created with function graphics commands, and if you use ImageMagick to produce raster output from PostScript intermediates, then I would say the raster file output is comparable.

Ugly display fonts aren't the first thing to spring to mind as something to complain about as I am twiddling my thumbs waiting for that function graphics plot to make it to the display!

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: changing the format of axis Posted by Hasan on Thu, 24 Nov 2011 17:10:12 GMT View Forum Message <> Reply to Message On Nov 24, 2:22 pm, David Fanning <n...@dfanning.com> wrote: > khorsan...@yahoo.com writes: >> The graph created by iPlot looks nicer than the one produced by Plot >> function, i.e. the text format. I also can move the legend window to >> an empty place on the graph easily. If only I can add something like >> 'xtickv=x, xticks=n elements(x)-1' to iPlot ... > The one big advantage of Coyote Graphics legends, of course, > is that they stay in the same place when the graphics window > is resized. The reason you have to move the damn iPlot > legend so much is that when you resize the window you > don't know where in in the world it might show up! :-) > http://www.idlcoyote.com/ng_tips/loglegend.php > > I agree that object graphics plots look better on the > display. But, who cares? I'm the only one looking at > them. The key is having them look good when they are > shown to someone else. The PostScript files produced > by Coyote Graphics are sometimes orders of magnitude > smaller than the PostScript files created with > function graphics commands, and if you use ImageMagick > to produce raster output from PostScript intermediates, > then I would say the raster file output is comparable. > > Ugly display fonts aren't the first thing to spring to > mind as something to complain about as I am twiddling > my thumbs waiting for that function graphics plot to > make it to the display! > Cheers, > > > David > > David Fanning, Ph.D. > Fanning Software Consulting, Inc.

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

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

Actually, it seems there is a problem with the results. I can't see all the graphs on the window.

y1=[576.000,687.000,416.000,325.000,271.000]

```
v2=[665.000,702.000,527.000,493.000,433.000]
y3=[2333.00,2409.00,2168.00,1791.00,1583.00]
y4=[225.000,371.000,149.000,168.000,60.0000]
y5=[863.000,912.000,590.000,652.000,695.000]
y6=[546.000,539.000,336.000,322.000,275.000]
y7=[1431.00,1523.00,1001.00,914.000,892.000]
x=[-12,-8,0,5,10]
cgplot,x,y/10000,LineStyle=0,CHARSIZE =1,color='black', xtickv=x,
xticks=n_elements(x)-1,XTITLE='Class
1',YTITLE='Values',Title='Differernt calsses values',/window
cgplot,x,y/10000,LineStyle=0,color='green',/overplot
cgplot,x,y/10000,LineStyle=0, color='red',/overplot
cgplot,x,y/10000,LineStyle=0, color='orange',/overplot
cgplot,x,y/10000,LineStyle=0, color='magenta',/overplot
cgplot,x,y/10000,LineStyle=0, color='cyan',/overplot
cgplot,x,y/10000,LineStyle=0, color='blue',/overplot
al legend, LineStyle=0,
['class1','class2','class3','class4','class5','class6','clas s7']$
,color=['black','green','red','orange','magenta','cyan','blu e'],Position=[0.2,
0.34], /Normal, CHarSIZE=0.8
```

Subject: Re: changing the format of axis
Posted by David Fanning on Thu, 24 Nov 2011 17:50:17 GMT
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Hasan writes:

- > Actually, it seems there is a problem with the results. I can't see
- > all the graphs on the window.

Try adding /ADDCMD keywords to all your overplots.

You are not adding those commands to the window, hence they don't show up when you resize the window. :-)

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: changing the format of axis
Posted by Hasan on Thu, 24 Nov 2011 18:03:42 GMT
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On Nov 24, 5:50 pm, David Fanning <n...@dfanning.com> wrote:

- > Hasan writes:
- >> Actually, it seems there is a problem with the results. I can't see
- >> all the graphs on the window.

>

> Try adding /ADDCMD keywords to all your overplots.

>

- > You are not adding those commands to the window, hence
- > they don't show up when you resize the window. :-)

>

> 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.")

I got this error message 'Trapped Error CGWINDOW: A valid cgWindow doe not exist to add a acommand to.

Subject: Re: changing the format of axis
Posted by David Fanning on Thu, 24 Nov 2011 18:29:38 GMT
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Hasan writes:

- > I got this error message 'Trapped Error CGWINDOW: A valid cgWindow doe
- > not exist to add a acommand to.

Now I am guessing you changed the keyword on the first command in that series from WINDOW, which you had before, to ADDCMD.

The WINDOW keyword will either replace all the commands in a window, if a window exists, with a particular command, or create a window and add the command to it. Subsequent commands are added with the ADDCMD keyword. If you need a window, you can always create one by typing cgWindow.

There is a whole book on the subject if you need further direction. :-)

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: changing the format of axis
Posted by Hasan on Thu, 24 Nov 2011 18:41:35 GMT
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On Nov 24, 5:50 pm, David Fanning <n...@dfanning.com> wrote:

- > Hasan writes:
- >> Actually, it seems there is a problem with the results. I can't see
- >> all the graphs on the window.

>

> Try adding /ADDCMD keywords to all your overplots.

>

- > You are not adding those commands to the window, hence
- > they don't show up when you resize the window. :-)

>

> 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.")

I got an error message 'Trapped Error CGWINDOW: A valid cgWindow does not exist to add a command to.

Subject: Re: changing the format of axis Posted by penteado on Thu, 24 Nov 2011 23:45:37 GMT

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On Nov 24, 8:25 am, khorsan...@yahoo.com wrote:

- > The graph created by iPlot looks nicer than the one produced by Plot
- > function, i.e. the text format. I also can move the legend window to
- > an empty place on the graph easily. If only I can add something like
- > 'xtickv=x, xticks=n_elements(x)-1' to iPlot ...

Maybe I missed something because I had been absent. But it sounds like what you want would be done with

```
y=[0.1,0.5,0.2,0.4,0.13]
x=[-12,-8,0,5,10]
iplot,x,y,xtickv=x
```

Where xticky is actually abbreviation for xtickvalues.

Subject: Re: changing the format of axis
Posted by Hasan on Fri, 25 Nov 2011 11:19:53 GMT
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On Nov 24, 6:29 pm, David Fanning <n...@dfanning.com> wrote:

- > Hasan writes:
- >> I got this error message 'Trapped Error CGWINDOW: A valid cgWindow doe
- >> not exist to add a acommand to.
- Now I am guessing you changed the keyword on the first command
- > in that series from WINDOW, which you had before, to ADDCMD.
- > The WINDOW keyword will either replace all the commands in
- > a window, if a window exists, with a particular command,
- > or create a window and add the command to it. Subsequent
- > commands are added with the ADDCMD keyword. If you
- > need a window, you can always create one by typing cgWindow.
- > There is a whole book on the subject if you need further
- > direction. :-)
- > 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.")

I removed the Window keyword and added cgWindow but it seems I am missing something else. if you copy and past the following code and see the results, please, you can see what I mean.

```
\begin{array}{l} y1 = [576.000,687.000,416.000,325.000,271.000] \\ y2 = [665.000,702.000,527.000,493.000,433.000] \\ y3 = [2333.00,2409.00,2168.00,1791.00,1583.00] \\ y4 = [225.000,371.000,149.000,168.000,60.0000] \\ y5 = [863.000,912.000,590.000,652.000,695.000] \\ y6 = [546.000,539.000,336.000,322.000,275.000] \\ y7 = [1431.00,1523.00,1001.00,914.000,892.000] \\ x = [-12,-8,0,5,10] \end{array}
```

cgwindow

```
cgplot,x,y1/10000,LineStyle=0,CHARSIZE =1,color='black', xtickv=x,$ xticks=n_elements(x)-1,XTITLE='Class$ 1',YTITLE='Values',Title='Differernt calsses values',/ADDCMD cgplot,x,y2/10000,LineStyle=0,color='green',/overplot,/ADDCMD cgplot,x,y3/10000,LineStyle=0, color='red',/overplot,/ADDCMD cgplot,x,y4/10000,LineStyle=0, color='orange',/overplot,/ADDCMD cgplot,x,y5/10000,LineStyle=0, color='magenta',/overplot,/ADDCMD cgplot,x,y6/10000,LineStyle=0, color='cyan',/overplot,/ADDCMD cgplot,x,y7/10000,LineStyle=0, color='blue',/overplot,/ADDCMD
```

al_legend,LineStyle=0,\$
['class1','class2','class3','class4','class5','class6','clas s7']\$
,color=['black','green','red','orange','magenta','cyan','blu e'],Position=[0.2,\$
0.34], /Normal,CHarSIZE=0.8

Subject: Re: changing the format of axis
Posted by Hasan on Fri, 25 Nov 2011 11:36:03 GMT
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That's right. 'xtickv' works with Plot (and not iPlot), it adds the exact tick values which, here, are equivalent with x values.. I couldn't find something similar to that in iPlot.

Subject: Re: changing the format of axis
Posted by David Fanning on Fri, 25 Nov 2011 14:09:46 GMT
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Hasan writes:

- > I removed the Window keyword and added cgWindow but it seems I am
- > missing something else. if you copy and past the following code and
- > see the results, please, you can see what I mean.

Well, a couple of things. AL_LEGEND requires a WINDOW keyword, instead of an ADDCMD keyword to add the command to the graphics window. But the biggest problem is that you didn't set the Y range of your data on your first plot.

Since you are overploting your other data sets, the first plot you create must have a range that is large enough to accommodate all the rest of the data you want to put on it. In this case, I also made the range large enough so I could easily fit the legend onto the plot.

```
\begin{array}{l} y1 = & [576.000,687.000,416.000,325.000,271.000] \\ y2 = & [665.000,702.000,527.000,493.000,433.000] \\ y3 = & [2333.00,2409.00,2168.00,1791.00,1583.00] \\ y4 = & [225.000,371.000,149.000,168.000,60.0000] \\ y5 = & [863.000,912.000,590.000,652.000,695.000] \\ y6 = & [546.000,539.000,336.000,322.000,275.000] \\ y7 = & [1431.00,1523.00,1001.00,914.000,892.000] \\ x = & [-12,-8,0,5,10] \end{array}
```

cgwindow

```
cgplot,x,y1/10000,LineStyle=0,CHARSIZE =1,color='black', xtickv=x,$ xticks=n_elements(x)-1,XTITLE='Class 1',YTITLE='Values', $ Title='Differernt calsses values',yrange=[0.,3250.]/10000, /ADDCMD cgplot,x,y2/10000,LineStyle=0,color='green',/overplot,/ADDCMD cgplot,x,y3/10000,LineStyle=0, color='red',/overplot,/ADDCMD cgplot,x,y4/10000,LineStyle=0, color='orange',/overplot,/ADDCMD cgplot,x,y5/10000,LineStyle=0, color='magenta',/overplot,/ADDCMD cgplot,x,y6/10000,LineStyle=0, color='cyan',/overplot,/ADDCMD cgplot,x,y7/10000,LineStyle=0, color='blue',/overplot,/ADDCMD
```

```
al_legend,LineStyle=0,$
['class1','class2','class3','class4','class5','class6','clas s7']$
,color=
['black','green','red','orange','magenta','cyan','blue'],Pos ition=[0.2,$
0.85], /Normal,CHarSIZE=0.8, /WINDOW
END
```

This works correctly. :-)

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: changing the format of axis
Posted by Hasan on Fri, 25 Nov 2011 14:52:22 GMT
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On Nov 25, 2:09 pm, David Fanning <n...@dfanning.com> wrote:
> Hasan writes:
>> I removed the Window keyword and added cgWindow but it seems I am
>> missing something else. if you copy and past the following code and
>> see the results, please, you can see what I mean.
>
> Well, a couple of things. AL LEGEND requires a WINDOW
> keyword, instead of an ADDCMD keyword to add the command
> to the graphics window. But the biggest problem is that
> you didn't set the Y range of your data on your first plot.
>
> Since you are overploting your other data sets, the first
> plot you create must have a range that is large enough
> to accommodate all the rest of the data you want to put on
> it. In this case, I also made the range large enough so I
> could easily fit the legend onto the plot.
>
> y1=[576.000,687.000,416.000,325.000,271.000]
> y2=[665.000,702.000,527.000,493.000,433.000]
> y3=[2333.00,2409.00,2168.00,1791.00,1583.00]
> y4=[225.000,371.000,149.000,168.000,60.0000]
> y5=[863.000,912.000,590.000,652.000,695.000]
> v6=[546.000,539.000,336.000,322.000,275.000]
> y7=[1431.00,1523.00,1001.00,914.000,892.000]
 x=[-12,-8,0,5,10]
>
> cgwindow
> cgplot,x,y1/10000,LineStyle=0,CHARSIZE =1,color='black', xtickv=x,$
   xticks=n_elements(x)-1,XTITLE='Class 1',YTITLE='Values', $
```

Title='Different calsses values',yrange=[0.,3250.]/10000, /ADDCMD cgplot,x,y2/10000,LineStyle=0,color='green',/overplot,/ADDCM D

> cgplot,x,y3/10000,LineStyle=0, color='red',/overplot,/ADDCMD > cgplot,x,y4/10000,LineStyle=0, color='orange',/overplot,/ADDCMD > cgplot,x,y5/10000,LineStyle=0, color='magenta',/overplot,/ADDCMD > cgplot,x,y6/10000,LineStyle=0, color='cyan',/overplot,/ADDCMD > cgplot,x,y7/10000,LineStyle=0, color='blue',/overplot,/ADDCMD > > al legend,LineStyle=0,\$ ['class1','class2','class3','class4','class5','class6','clas s7']\$ ['black', 'green', 'red', 'orange', 'magenta', 'cyan', 'blue'], Pos ition=[0.2,\$ 0.85], /Normal, CHarSIZE=0.8, /WINDOW > END > > This works correctly. :-) > > Cheers, David > David Fanning, Ph.D. > Fanning Software Consulting, Inc. > Coyote's Guide to IDL Programming:http://www.idlcoyote.com/

Thanks a lot David.

Subject: Re: changing the format of axis Posted by penteado on Sat, 26 Nov 2011 02:20:45 GMT View Forum Message <> Reply to Message

On Nov 25, 9:36 am, Hasan <h5 khav...@yahoo.com> wrote:

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

- > That's right. 'xtickv' works with Plot (and not iPlot), it adds the
- > exact tick values which, here, are equivalent with x values.. I
- > couldn't find something similar to that in iPlot.

On further inspection, I noticed that xtickv (xtickvalues) did not work on 7.1. It does work on 8.1, which is what I had used to test it as I wrote above.