Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by Jo Klein on Fri, 28 Mar 2008 17:18:28 GMT

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You've run into the infamous minor-tick-labelling problem. As is so often the case, David's website has the solution: http://www.dfanning.com/graphics_tips/minorlog.html> Cheers, Jo

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by David Fanning on Fri, 28 Mar 2008 17:46:47 GMT View Forum Message <> Reply to Message

Jo Klein writes:

- > You've run into the infamous minor-tick-labelling problem. As is so
- > often the case, David's website has the solution:
- > <http://www.dfanning.com/graphics_tips/minorlog.html>

Humm. I couldn't even understand that article. :-(

I've made a couple of small changes that I think makes it easier to understand.

Cheers,

David

--

David Fanning, Ph.D. Fanning Software Consulting, Inc.

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

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

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by natha on Fri, 28 Mar 2008 17:55:05 GMT

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I use the LOGLEVELS function and I try to do my plot like the example.

I dont know how many YTIKCS I need to chose.

I didn't succed...

Any suggestions?

Bernat

Thanks,

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by David Fanning on Fri, 28 Mar 2008 18:22:06 GMT View Forum Message <> Reply to Message

bernat writes:

- > I use the LOGLEVELS function and I try to do my plot like the
- > example.
- > I dont know how many YTIKCS I need to chose.

>

> I didn't succed...

>

> Any suggestions?

Read the updated article:

http://www.dfanning.com/graphics_tips/minorlog.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by natha on Fri, 28 Mar 2008 19:18:17 GMT

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Hey David,

thank you for your article. I utilise the LOGLEVELS for put the yticks and works good!

The only problem that I have is in some cases.

For example, if I want to representate a log axis with values [0.2,0.55]. Then the loglevels returns 0.5 but if I do the plot with

YTICKS=1 and YICKV=LOGLEVELS(yrange) the following problem occurs:

% PLOT: Data coordinate system not established.

Do you know why? What can I do to solve this problem?

On Mar 28, 2:22 pm, David Fanning <n...@dfanning.com> wrote: > bernat writes: >> I use the LOGLEVELS function and I try to do my plot like the >> example. >> I dont know how many YTIKCS I need to chose. >> I didn't succed... >> Any suggestions? Read the updated article: > http://www.dfanning.com/graphics_tips/minorlog.html > > Cheers. > David > David Fanning, Ph.D. > Fanning Software Consulting, Inc.

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

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

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by David Fanning on Fri, 28 Mar 2008 19:28:14 GMT View Forum Message <> Reply to Message

bernat writes:

- > The only problem that I have is in some cases.
- > For example, if I want to representate a log axis with values
- > [0.2,0.55]. Then the loglevels returns 0.5 but if I do the plot with
- > YTICKS=1 and YICKV=LOGLEVELS(yrange) the following problem occurs:
- > % PLOT: Data coordinate system not established.
- > Do you know why? What can I do to solve this problem?

I don't seem to have that problem. This command works fine:

IDL> plot, indgen(11), Scale_vector(indgen(11), 0.1, 0.55), \$
/ylog, ytickv=loglevels([0.2, 0.55]), yticks=1, ystyle=1

Do you have a specific command that doesn't work?

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by natha on Fri, 28 Mar 2008 20:06:16 GMT

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Yeah,

Looks this example:

Plot, [10], [0.3], yr=[0.22,0.55], xr=[0,20], ystyle=1, /ylog, psym=2, yticks=1, ytickv=loglevels([0.22,0.55])

the result is:

% PLOT: Data coordinate system not established.

Cheers,

Bernat

On Mar 28, 3:28 pm, David Fanning <n...@dfanning.com> wrote:

- > bernat writes:
- >> The only problem that I have is in some cases.
- >> For example, if I want to representate a log axis with values
- >> [0.2,0.55]. Then the loglevels returns 0.5 but if I do the plot with
- >> YTICKS=1 and YICKV=LOGLEVELS(yrange) the following problem occurs:
- >> % PLOT: Data coordinate system not established.
- >> Do you know why? What can I do to solve this problem?

```
I don't seem to have that problem. This command works fine:
IDL> plot, indgen(11), Scale_vector(indgen(11), 0.1, 0.55), $
/ylog, ytickv=loglevels([0.2, 0.55]), yticks=1, ystyle=1
Do you have a specific command that doesn't work?
Cheers,
David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming:http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by David Fanning on Fri, 28 Mar 2008 20:52:02 GMT

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bernat writes:

```
> Looks this example:
>
> Plot, [10], [0.3], yr=[0.22,0.55], xr=[0,20], ystyle=1, /ylog,
> psym=2, yticks=1, ytickv=loglevels([0.22,0.55])
>
> the result is:
>
> % PLOT: Data coordinate system not established.
```

This happens when there is a mismatch between the number of values returned by LOGLEVELS and the number you use for YTICKS. This is why I think you should look at the *REVISED* web page article and use the code you find there:

```
ticks = LOGLEVELS([0.22,0.55])
nticks = N_Elements(ticks)
Plot, data, /YLOG, YRANGE([0.22,0.55])YTICKS=nticks-1, $
YTICKV=Reverse(ticks)
```

Cheers,

David

--

David Fanning, Ph.D.

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by Paul Van Delst[1] on Fri, 28 Mar 2008 20:57:18 GMT View Forum Message <> Reply to Message

```
David Fanning wrote:
> bernat writes:
>
>> Looks this example:
    Plot, [10], [0.3], yr=[0.22,0.55], xr=[0,20], ystyle=1, /ylog,
>>
   psym=2, yticks=1, ytickv=loglevels([0.22,0.55])
    the result is:
>>
>>
    % PLOT: Data coordinate system not established.
>>
>
> This happens when there is a mismatch between the number
> of values returned by LOGLEVELS and the number you use
> for YTICKS. This is why I think you should look at the
 *REVISED* web page article and use the code you find there:
>
    ticks = LOGLEVELS([0.22,0.55])
>
    nticks = N Elements(ticks)
    Plot, data, /YLOG, YRANGE([0.22,0.55])YTICKS=nticks-1, $
Shouldn't that be
   YRANGE *=* [0.22,0.55] *,* YTICKS=nticks-1
?
Or does IDL workbench accept user-defined syntax?
:0)
Man, the minute hand sure does move slow on a friday.....
cheers,
paulv
      YTICKV=Reverse(ticks)
>
```

- > Cheers,
- >
- > David

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by David Fanning on Fri, 28 Mar 2008 20:57:46 GMT View Forum Message <> Reply to Message

David Fanning writes:

- > This happens when there is a mismatch between the number
- > of values returned by LOGLEVELS and the number you use
- > for YTICKS. This is why I think you should look at the
- > *REVISED* web page article and use the code you find there:

>

- > ticks = LOGLEVELS([0.22,0.55])
- > nticks = N_Elements(ticks)
- > Plot, data, /YLOG, YRANGE([0.22,0.55])YTICKS=nticks-1, \$
- > YTICKV=Reverse(ticks)

Oh, hell, I should never have reversed those damn axes!! This will lead to another five questions. Sigh...

```
ticks = LOGLEVELS([0.22,0.55])
nticks = N_Elements(ticks)
Plot, data, /YLOG, YRANGE([0.22,0.55])YTICKS=nticks-1, $
YTICKV=ticks
```

Cheers.

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Covete's Guide to IDL Programming

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

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

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by David Fanning on Fri, 28 Mar 2008 21:03:11 GMT View Forum Message <> Reply to Message

Paul van Delst writes:

> Man, the minute hand sure does move slow on a friday.....

Boy, you've got that right... Where did Coyote go with the beer, for God's sake!!

Let me try this again:

ticks = LOGLEVELS([0.22,0.55])
nticks = N_Elements(ticks)
Plot, data, /YLOG, YRANGE=[0.22,0.55], YTICKS=nticks-1, \$
YTICKV=ticks

Sheesh!!

Cheers.

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.

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

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

Subject: Re: (simple question) PLOT, YTICKS in /YLOG AXIS Posted by David Fanning on Fri, 28 Mar 2008 21:06:19 GMT View Forum Message <> Reply to Message

Paul van Delst writes:

> Man, the minute hand sure does move slow on a friday.....

This is what happens when you tell yourself you are *definitely* going to get some work done, and then the phone rings, the dog wants out, the program that used to work perfectly crashes for some unknown reason, and...

I know it's five o'clock somewhere. Guess this will wait for tomorrow.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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