Subject: PLOYY plot

Posted by d.poreh on Wed, 02 Jul 2008 09:03:50 GMT

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Folks

I want to plot, to set of data in a single figure in IDL (something like polyy in MATLAB) one set x,y for example with normal axis and another on (say xx,yy)whit logarithmic axis.

Any help?

Cheers

Dave

Subject: Re: PLOYY plot Posted by d.poreh on Wed, 02 Jul 2008 15:08:10 GMT View Forum Message <> Reply to Message

```
On Jul 2, 4:44 pm, Spon <christoph.b...@gmail.com> wrote:
> On Jul 2, 2:23 pm, d.po...@gmail.com wrote:
>
>
>> On Jul 2, 2:15 pm, Brian Larsen <balar...@gmail.com> wrote:
>>> Does this work?
>>> http://www.dfanning.com/tips/another_yaxis.html
>>> Try using that site for all you IDL needs, it is a great first (and
>>> last) stop.
>>> Cheers,
>>> Brian
         ______
>>> Brian Larsen
>>> Boston University
>>> Center for Space Physicshttp://people.bu.edu/balarsen/Home/IDL
>> Hi Brian
>> I saw that before no it is not what I need. In that image x is same
>> for both y. I want to inter another x (in the top of box) that y=f(x)
>> is for right and top.
>> Cheers
> You have to call AXIS twice, once for each new axis you require.
> To extend David's example:
```

> x = FINDGEN(100) > theta = x/5

- > curve = SIN(x/5) / EXP(x/50)
- > PLOT, curve, YSTYLE=8
- > AXIS, YAXIS=1, YLOG=1, YRANGE=[0.1, 100], /SAVE
- > AXIS, XAXIS=1, XRANGE =[0, 200], /SAVE
- > OPLOT, [theta, REVERSE(theta)]

>

- > If you have the same problem as I do with overlayed axes disappearing
- > you could get around it by setting YTHICK = 2 & XTHICK = 2 in your
- > respective AXIS calls; but this might be a platform-dependent problem
- > that doesn't affect you.

>

- > Regards,
- > Chris

no

what you had done is just put y1=f(x)&y2=f(x) in a same figure in need somthing like this:

https://www.rsg.tu-freiberg.de/twiki/pub/Main/DavodPoreh/as. pdf that means plotting y1=f(x1) & y2=f(x2) in diffrent axis format as you can see.

cheers

Subject: Re: PLOYY plot

Posted by Brian Larsen on Wed, 02 Jul 2008 15:14:30 GMT View Forum Message <> Reply to Message

How is Chris' post not what you want? We all obviously need a little more explanation here. What I see in Chris' plot is a "wiggle" plotted on the bottom x-axis and a "parabola" plotted on the top x-axis.

Brian

Brian Larsen
Boston University
Center for Space Physics
http://people.bu.edu/balarsen/Home/IDL

Subject: Re: PLOYY plot

Posted by d.poreh on Wed, 02 Jul 2008 15:36:25 GMT

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On Jul 2, 5:14 pm, Brian Larsen <balar...@gmail.com> wrote:

- > How is Chris' post not what you want? We all obviously need a little
- > more explanation here. What I see in Chris' plot is a "wiggle"
- > plotted on the bottom x-axis and a "parabola" plotted on the top x-

> axis.

>

> Brian

- > Brian Larsen
- > Boston University
- > Center for Space Physicshttp://people.bu.edu/balarsen/Home/IDL

Brian

i want upper x also loarithmic. if i change and put *xlog=1* it is not work. i want something like this:

https://www.rsg.tu-freiberg.de/twiki/pub/Main/DavodPoreh/as.pdf as you can see y1=f(x) (left and down) is normal and y2=f(x2)(rigth and up) is logarithmic.

Cheers

Subject: Re: PLOYY plot

Posted by Paul Van Delst[1] on Wed, 02 Jul 2008 15:51:26 GMT

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d.poreh@gmail.com wrote:

- > On Jul 2, 5:14 pm, Brian Larsen <balar...@gmail.com> wrote:
- >> How is Chris' post not what you want? We all obviously need a little
- >> more explanation here. What I see in Chris' plot is a "wiggle"
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- >> axis.
- >>
- >> Brian
- >>
- >> Brian Larsen
- >> Boston University
- >> Center for Space Physicshttp://people.bu.edu/balarsen/Home/IDL

>

- > Brian
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- > work. i want something like this:
- > https://www.rsg.tu-freiberg.de/twiki/pub/Main/DavodPoreh/as.pdf

- > as you can see y1=f(x) (left and down) is normal and y2=f(x2)(rigth
- > and up) is logarithmic.

Subject: Re: PLOYY plot

Why? The x-axes aren't related -- at least they shouldn't be since the lower one starts at 0.

Why plot two disparate datasets on the same figure? Even if it is valid numbers-wise, it will still be confusing. I don't know anything about the data, but it smacks of advanced plotology to me, i.e. displaying data to make it look a certain way. The plot equivalent of the drunk man under the street light statistics story.

cheers,

paulv

Posted by d.poreh on Wed, 02 Jul 2008 15:58:50 GMT View Forum Message <> Reply to Message On Jul 2, 5:51 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote: > d.po...@gmail.com wrote: >> On Jul 2, 5:14 pm, Brian Larsen <balar...@gmail.com> wrote: >>> How is Chris' post not what you want? We all obviously need a little >>> more explanation here. What I see in Chris' plot is a "wiggle" >>> plotted on the bottom x-axis and a "parabola" plotted on the top x->>> axis. > >>> Brian ______ >>> Brian Larsen >>> Boston University >>> Center for Space Physicshttp://people.bu.edu/balarsen/Home/IDL > >> Brian >> i want upper x also loarithmic. if i change and put *xlog=1* it is not >> work. i want something like this:

>> https://www.rsg.tu-freiberg.de/twiki/pub/Main/DavodPoreh/as. pdf >> as you can see y1=f(x) (left and down) is normal and y2=f(x2)(rigth

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- > of the drunk man under the street light statistics story.

>

>> and up) is logarithmic.

```
cheers,paulv
```

Paul

if you search in net Plotyy you can see alot about this for example: http://www.sgr.nada.kth.se/unix/software/matlab/senaste/tech doc/ref/plotyy.html it is very useful in scince.

Cheers

```
Subject: Re: PLOYY plot
Posted by d.poreh on Wed, 02 Jul 2008 16:12:14 GMT
View Forum Message <> Reply to Message
On Jul 2, 5:58 pm, d.po...@gmail.com wrote:
> On Jul 2, 5:51 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote:
>
>
>> d.po...@gmail.com wrote:
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>>> plotted on the bottom x-axis and a "parabola" plotted on the top x-
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>>>> Brian
     >>>> Brian Larsen
>>>> Boston University
>>> Center for Space Physicshttp://people.bu.edu/balarsen/Home/IDL
>
>>> Brian
>>> i want upper x also loarithmic. if i change and put *xlog=1* it is not
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>> of the drunk man under the street light statistics story.
>
```

>> cheers, >> paulv > > Paul > if you search in net Plotyy you can see alot about this for example:http://www.sgr.nada.kth.se/unix/software/matlab/sena ste/techdoc/ref/p... > it is very useful in scince. > Cheers Brian it works now, thanks for all for helping, now i want to do that in ITools. Cheers Subject: Re: PLOYY plot Posted by Paul Van Delst[1] on Wed, 02 Jul 2008 16:47:43 GMT View Forum Message <> Reply to Message d.poreh@gmail.com wrote: > On Jul 2, 5:51 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote: >> d.po...@gmail.com wrote: >>> On Jul 2, 5:14 pm, Brian Larsen <balar...@gmail.com> wrote: >>>> How is Chris' post not what you want? We all obviously need a little >>> more explanation here. What I see in Chris' plot is a "wiggle" >>> plotted on the bottom x-axis and a "parabola" plotted on the top x->>>> axis. >>>> Brian >>>> Brian Larsen >>>> Boston University >>> Center for Space Physicshttp://people.bu.edu/balarsen/Home/IDL >>> Brian >>> i want upper x also loarithmic. if i change and put *xlog=1* it is not >>> work. i want something like this: >>> https://www.rsg.tu-freiberg.de/twiki/pub/Main/DavodPoreh/as.pdf >>> as you can see y1=f(x) (left and down) is normal and y2=f(x2)(rigth >>> and up) is logarithmic. >> Why? The x-axes aren't related -- at least they shouldn't be since the lower one starts at 0. >> >> Why plot two disparate datasets on the same figure? Even if it is valid numbers-wise, it >> will still be confusing. I don't know anything about the data, but it smacks of advanced >> plotology to me, i.e. displaying data to make it look a certain way. The plot equivalent >> of the drunk man under the street light statistics story. >>

>> cheers.

>> paulv

>>

- >
- > Paul
- > if you search in net Plotyy you can see alot about this for example:
- > http://www.sgr.nada.kth.se/unix/software/matlab/senaste/tech doc/ref/plotyy.html
- > it is very useful in scince.

Oh, I have no argument about the technique in general. I've done similar to that shown in the matlab example above. My issue (such as it is) was with the example plot you showed.

cheers,

paulv