
Subject: in multiplot to have common xaxis

Posted by [gunvicsin11](#) on Tue, 04 Oct 2016 08:33:49 GMT

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Hi,

I need to plot time vs four other parameters. Xaxis will be time. So I am using the multiplot.pro for this purpose. But i want only once the Xaxis value to be displayed for the bottommost plot.

How do we do that, can anybody give some tips.

thanks

Subject: Re: in multiplot to have common xaxis

Posted by [Helder Marchetto](#) on Tue, 04 Oct 2016 08:46:50 GMT

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On Tuesday, October 4, 2016 at 10:34:06 AM UTC+2, sid wrote:

> Hi,

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> thanks

Have a look at David's gallery:

<http://www.idlcoyote.com/gallery/index.html>

Look for ladder plot. That might be what you're looking for. If not, then you must explain better how it should look like.

In general you are looking at the "overplot"-ing. This is ok as long as the 4 vars have similar y values. Here is an example in FG:

```
pp = plot(/test)
ppr = pp.xrangle
xx = findgen(201)
yy = sin(!pi*xx/100.0)
op = plot(xx,yy,'r',overplot=pp)
```

Cheers,
Helder

Subject: Re: in multiplot to have common xaxis

Posted by [gunvicsin11](#) on Tue, 04 Oct 2016 09:33:33 GMT

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On Tuesday, October 4, 2016 at 2:16:52 PM UTC+5:30, Helder wrote:

> On Tuesday, October 4, 2016 at 10:34:06 AM UTC+2, sid wrote:

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> Cheers,

> Helder

I have different xaxis ranges say for example

```
plot1 x=[14.2,14.4,14.6,14.8]
```

```
      y=[1.2e8,1.3e8,1.4e8,1.5e8]
```

```
plot2 x=[14.0,14.1,14.2,14.3,14.4,14.5]
```

```
      y=[10,20,30,40,50,60]
```

I need to put both plot1 and plot2 as multiplot with one axis.

thanks

Subject: Re: in multiplot to have common xaxis

Posted by [Craig Markwardt](#) on Tue, 04 Oct 2016 09:36:37 GMT

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On Tuesday, October 4, 2016 at 5:33:36 AM UTC-4, sid wrote:

> On Tuesday, October 4, 2016 at 2:16:52 PM UTC+5:30, Helder wrote:

>> On Tuesday, October 4, 2016 at 10:34:06 AM UTC+2, sid wrote:

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>

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> y=[10,20,30,40,50,60]

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Your data have different ranges, but you get to chose the XRANGE (with the XRANGE) keyword.

Subject: Re: in multiplot to have common xaxis

Posted by [gunvicsin11](#) on Tue, 04 Oct 2016 10:18:35 GMT

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On Tuesday, October 4, 2016 at 3:06:53 PM UTC+5:30, Craig Markwardt wrote:

> On Tuesday, October 4, 2016 at 5:33:36 AM UTC-4, sid wrote:

>> On Tuesday, October 4, 2016 at 2:16:52 PM UTC+5:30, Helder wrote:

>>> On Tuesday, October 4, 2016 at 10:34:06 AM UTC+2, sid wrote:

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I want the xaxis only at the bottommost plot, top plots i dont want the xaxis to be displayed.

Subject: Re: in multiplot to have common xaxis

Posted by [Helder Marchetto](#) on Tue, 04 Oct 2016 10:30:45 GMT

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On Tuesday, October 4, 2016 at 12:18:36 PM UTC+2, gunvi...@gmail.com wrote:

> On Tuesday, October 4, 2016 at 3:06:53 PM UTC+5:30, Craig Markwardt wrote:

>> On Tuesday, October 4, 2016 at 5:33:36 AM UTC-4, sid wrote:

>>> On Tuesday, October 4, 2016 at 2:16:52 PM UTC+5:30, Helder wrote:

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>>> plot2 x=[14.0,14.1,14.2,14.3,14.4,14.5]
>>>      y=[10,20,30,40,50,60]
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>>> I need to put both plot1 and plot2 as multiplot with one xaxis.
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>>>
>> Your data have different ranges, but you get to chose the XRANGE (with the XRANGE)
keyword.
>
> I want the xaxis only at the bottommost plot, top plots i dont want the xaxis to be displayed.

```

Given no further specifications, why not this:

```

x1=[14.2,14.4,14.6,14.8]
y1=[1.2e8,1.3e8,1.4e8,1.5e8]
x2=[14.0,14.1,14.2,14.3,14.4,14.5]
y2=[10,20,30,40,50,60]
p1 = plot(x1,y1, /ylog)

```

```
p2 = plot(x2,y2, 'r', overplot=p1)
```

Otherwise, have a look at example 3 here:
http://www.harrisgeospatial.com/docs/plot_2d.html

Cheers,
Helder

Subject: Re: in multiplot to have common xaxis
Posted by [Jeremy Bailin](#) on Fri, 21 Oct 2016 19:19:05 GMT
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On Tuesday, October 4, 2016 at 3:34:06 AM UTC-5, sid wrote:

```
> Hi,  
> I need to plot time vs four other parameters. Xaxis will be time. So I am using the multiplot.pro  
for this purpose. But i want only once the Xaxis value to be displayed for the bottommost plot.  
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>  
> thanks
```

In DG, you would want to use XTICKFORMAT='(A1)'. Not sure about FG.

-Jeremy.

Subject: Re: in multiplot to have common xaxis
Posted by [Phillip Bitzer](#) on Mon, 24 Oct 2016 14:17:26 GMT
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On Friday, October 21, 2016 at 2:19:14 PM UTC-5, Jeremy Bailin wrote:

```
> On Tuesday, October 4, 2016 at 3:34:06 AM UTC-5, sid wrote:  
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> In DG, you would want to use XTICKFORMAT='(A1)'. Not sure about FG.  
>  
> -Jeremy.
```

For reference...

```
plt = PLOT(/test)  
plt.xshowtext=0
```
