View Forum Message <> Reply to Message You may try adding !C to the ticknames: plot,[1,2,1],xtickname=[",",'1!C1'] Cheers, Paolo Brian Larsen wrote: > IDLers, > OK, so I have not found the good solution for making multiple labels > on an axis. The example I am trying to emulate is: > http://sprg.ssl.berkeley.edu/fast/sumplotProg/sumplotsLink/o rbit links/2008/46118/2008 01 24/fa k0 ees 46118 is.gif > It seems that I cant figure out how to: > - put them in the right place with xyouts > - line them up nicely - make sure they are in the right place > Has anyone done this with good success? > I know how with separate axes like: http://www.dfanning.com/graphics\_tips/wavenumber.html but on the same axis has got me more boggled. > > Cheers, Brian > > Brian Larsen > Boston University > Center for Space Physics

Subject: Re: Multiple xaxis labels
Posted by wgallery on Mon, 28 Jan 2008 17:15:01 GMT
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Brian,

Check out the 'label\_date' function in idl help. That function allows

Subject: Re: Multiple xaxis labels

Posted by parigis on Mon, 28 Jan 2008 17:04:05 GMT

you to put multiple line date/time labels on plots (see the examples at the end of the help page.) You may be able to tweak it to do what you want.

```
Cheers
Bill Gallery
On Jan 28, 12:04 pm, pgri...@gmail.com wrote:
> You may try adding !C to the ticknames:
>
> plot,[1,2,1],xtickname=[",",'1!C1']
>
> Cheers.
> Paolo
> Brian Larsen wrote:
>> IDLers.
>> OK, so I have not found the good solution for making multiple labels
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>> I know how with separate axes like:http://www.dfanning.com/graphics\_tips/wavenumber.html

>

>> Cheers,

>> Brian

>

>> ------

>> but on the same axis has got me more boggled.

>> Brian Larsen

>> Boston University

>> Center for Space Physics

Subject: Re: Multiple xaxis labels
Posted by David Fanning on Mon, 28 Jan 2008 17:19:04 GMT
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Brian Larsen writes:

- > OK, so I have not found the good solution for making multiple labels
- > on an axis. The example I am trying to emulate is:
- > http://sprg.ssl.berkeley.edu/fast/sumplotProg/sumplotsLink/orbit\_links/2008/46118/2008\_01\_24/fa\_k0\_ees\_46118\_is.gif

>

- > It seems that I cant figure out how to:
- > put them in the right place with xyouts
- > line them up nicely
- > make sure they are in the right place

>

> Has anyone done this with good success?

>

- > I know how with separate axes like: http://www.dfanning.com/graphics\_tips/wavenumber.html
- > but on the same axis has got me more boggled.

Well, I would use the information in !Y.CRANGE (data coordinates) or in !Y.WINDOW (normalized coordinates) to help me align the extra annotation in the Y direction (ALIGN=0.5 on your XYOUTS command, after you rotate it).

Positioning in the X direction is usually done more empirically. (That is to say, you have to try it 2-3 times, usually.) But if you base if off of !X.CRANGE[0] or !X.WINDOW[0] you can usually find the right place in a matter of seconds.

Cheers.

David

--

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

Coyote's Guide to IDL Programming (www.dfanning.com)

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

Subject: Re: Multiple xaxis labels
Posted by wgallery on Mon, 28 Jan 2008 17:59:04 GMT
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Brian,

Better yet, see the system variable !xtickformat:

"Set this keyword to a string or a vector of strings. The string can be a format string or a string containing the name of a function that returns a string to be used to format the axis tick mark labels. If a vector is provided, each string corresponds to a level of the axis. " (see idl help on !xtickformat for more information.) You need to provide a function to format the labels for each level, then set: !xtickformat=['label\_funct\_1', 'label\_funct\_2, ...] This should do what you want. Cheers, Bill On Jan 28, 12:15 pm, Bill Gallery <wgall...@aer.com> wrote: > Brian. > > Check out the 'label\_date' function in idl help. That function allows > you to put multiple line date/time labels on plots (see the examples > at the end of the help page.) You may be able to tweak it to do what > you want. > Cheers > > Bill Gallery > On Jan 28, 12:04 pm, pgri...@gmail.com wrote: > >> You may try adding !C to the ticknames: > >> plot,[1,2,1],xtickname=[",",'1!C1'] >> Cheers, >> Paolo >> Brian Larsen wrote: >>> IDLers, >>> OK, so I have not found the good solution for making multiple labels >>> on an axis. The example I am trying to emulate is: >>> http://sprg.ssl.berkeley.edu/fast/sumplotProg/sumplotsLink/o rbit\_link... > >>> It seems that I cant figure out how to:

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>>> Has anyone done this with good success?
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>>> but on the same axis has got me more boggled.
>>> Cheers,
>>> Brian
>>> Brian Larsen
>>> Boston University
>>> Center for Space Physics
```

Subject: Re: Multiple xaxis labels
Posted by Brian Larsen on Mon, 28 Jan 2008 18:26:24 GMT
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```
On Jan 28, 12:59 pm, Bill Gallery <wgall...@aer.com> wrote:
> Brian.
>
 Better yet, see the system variable !xtickformat:
>
  "Set this keyword to a string or a vector of strings. The string can
>
> be a format string or a string containing the name of a function that
> returns a string to be used to format the axis tick mark labels. If a
  vector is provided, each string corresponds to a level of the axis.
  " (see idl help on !xtickformat for more information.)
  You need to provide a function to format the labels for each level,
> then set:
 !xtickformat=['label funct 1', 'label funct 2, ...]
  This should do what you want.
>
>
> Cheers.
> Bill
```

Bill, that does look like it will work well, In my initial playing it does not seem to be the most intuitive thing but so many things in IDL are not that I am getting more and more used to them. Like the extra "axis" that is drawn by default, but I have seen in help somewhere examples that did not have that.

Cheers,
Brian
Brian Larsen
Boston University
Center for Space Physics