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Subject: Re: Irregular Tick Spacing and Values in an iPlot  
Posted by [David Fanning](#) on Tue, 15 Jan 2008 18:16:03 GMT  
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jeffnettles4870@gmail.com writes:

> Has anyone tried to do an iPlot with irregular tick spacing and  
> values? I can do this with a regular PLOT command as in David's tip:  
>  
> [http://www.dfanning.com/tips/irregular\\_tick\\_spacing.html](http://www.dfanning.com/tips/irregular_tick_spacing.html)  
>  
> but I'd like to do this in an iPlot. I'm probably doing something  
> wrong, but I tried setting the xtickvalues keyword in the iPlot  
> procedure, but that seems to just label the ticks using arbitrary  
> numbers, and I need to space them arbitrarily. Xtickinterval only  
> accepts scalar values, so that's not a help I don't think.

This looks like a bug to me. The iPlot documentation indicates you ought to be able to pass along XTICKVALUES, for example, but in fact the iPlot program does nothing with them.

The reason I think this is a bug, is that I have no problem creating irregular tick spacing and labeling in my XPLOT program, which is an object graphics program. I simply create the axis like this:

```
xAxis1 = Obj_New("IDLgrAxis", 0, Color=[255,255,0], Ticklen=0.025, $  
  Minor=4, Range=[0,10], Title=xtitle, $  
  TickValues=[0.0,0.8,1.5,2.0,3.5,4.3,5.8,6.5,7.2,8.8,10.0], $  
  Location=[1000, position[1] ,0], Exact=exact[0])
```

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.")

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Subject: Re: Irregular Tick Spacing and Values in an iPlot  
Posted by [jeffnettles4870](#) on Tue, 15 Jan 2008 19:03:22 GMT  
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On Jan 15, 1:16 pm, David Fanning <n...@dfanning.com> wrote:  
> jeffnettles4...@gmail.com writes:  
>> Has anyone tried to do an iPlot with irregular tick spacing and

>> values? I can do this with a regular PLOT command as in David's tip:  
>  
>> [http://www.dfanning.com/tips/irregular\\_tick\\_spacing.html](http://www.dfanning.com/tips/irregular_tick_spacing.html)  
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> but in fact the iPlot program does nothing with them.  
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> TickValues=[0.0,0.8,1.5,2.0,3.5,4.3,5.8,6.5,7.2,8.8,10.0], \$  
> Location=[1000, position[1] ,0], Exact=exact[0])  
>  
> 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.")

\*sigh\* I was afraid this was a bug....guess I'll report it.

Thanks,  
Jeff

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Subject: Re: Irregular Tick Spacing and Values in an iPlot  
Posted by [chris\\_torrence@NOSPAM](mailto:chris_torrence@NOSPAM) on Tue, 15 Jan 2008 23:51:10 GMT  
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Hi Jeff,

This is indeed a bug. It looks like all of the other keywords work, just not XTICKVALUES. I've logged a bug, and it will be fixed in the next IDL version.

If you are feeling brave, and you desperately need a fix, you can modify lib/itools/components/idlitvisaxis\_\_define.pro. At the very end of the :: SetProperty method, add the following line of code:

```
if (N_ELEMENTS(_extra) gt 0) then self._oAxis->SetProperty,  
_EXTRA=_extra
```

This is not the exact fix that I will put into the production code, but it will get you up & running.

-Chris  
ITTVIS

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Subject: Re: Irregular Tick Spacing and Values in an iPlot  
Posted by [jeffnetles4870](#) on Wed, 16 Jan 2008 00:03:58 GMT  
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On Jan 15, 6:51 pm, Chris Torrence <gorth...@gmail.com> wrote:

> Hi Jeff,

>

> This is indeed a bug. It looks like all of the other keywords work,  
> just not XTICKVALUES. I've logged a bug, and it will be fixed in the  
> next IDL version.

>

> If you are feeling brave, and you desperately need a fix, you can  
> modify lib/itools/components/idlitvisaxis\_\_define.pro. At the very end  
> of the :: SetProperty method, add the following line of code:

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> _EXTRA=_extra
```

>

> This is not the exact fix that I will put into the production code,  
> but it will get you up & running.

>

> -Chris  
> ITTVIS

Thanks Chris,

I'll give it a shot :) I sent an email to the techsupport@ittvis.com address earlier today about this, so you might want to check on that so that the same problem doesn't get logged twice.

I appreciate your help,  
Jeff

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