
Subject: Re: Iplot x labeling

Posted by [Michael Galloy](#) on Fri, 01 Jun 2007 23:05:48 GMT

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On Jun 1, 4:13 pm, "jochem.verelst@gmail.com"

<jochem.verelst@gmail.com> wrote:

> Hi IDL gurus,

>

> A simple question which is providing me headache.

>

> I have, say, x=[-6,-4,1,5,7]

> and y=[5,4,3,4,5]

>

> now I wish to plot x and y in IPLOT in such a way that on the x-axis

> only the x values are shown. Without any additional ticks. Hereby, the

> outer values should not be at the very end of the plot, but rather a

> bit inside.

>

> Somebody can help me out?

>

> greetzz, Joe

If I'm understanding you correctly,

```
iplot, x, y, xrange=[-6.5, 7.5]
```

will do the second part (putting the values "a bit inside"). I think the XTICKVALUES keyword should have solved the first part (maybe with adding the XMAJOR keyword), but I couldn't get the result I was expecting from:

```
iplot, x, y, xtickvalues=x, xmajor=5, xrange=[-6.5, 7.5]
```

(as a matter of fact, XTICKVALUES didn't seem to ever have any effect).

Mike

--

www.michaelgalloy.com

Subject: Re: Iplot x labeling

Posted by [jochem.verelst@gmail.com](#) on Sat, 02 Jun 2007 07:25:44 GMT

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Indeed, Mike, the second part was the easy part. :) Thanks a lot! But you have probably also noted that the x values did not appear.

I still dont understand why the desired x values are not shown on the x-axis.

A troubled Joe

On Jun 2, 1:05 am, "mgal...@gmail.com" <mgal...@gmail.com> wrote:

> On Jun 1, 4:13 pm, "jochem.verre...@gmail.com"

>

>

>

>

>

> <jochem.verre...@gmail.com> wrote:

>> Hi IDL gurus,

>

>> A simple question which is providing me headache.

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>> I have, say, x=[-6,-4,1,5,7]

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>

> (as a matter of fact, XTICKVALUES didn't seem to ever have any

> effect).

>

> Mike

> --www.michaelgalloy.com- Hide quoted text -

>

> - Show quoted text -

Subject: Re: Iplot x labeling

Posted by [David Fanning](#) on Sun, 03 Jun 2007 13:29:56 GMT

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mgalloy@gmail.com writes:

> If I'm understanding you correctly,
>
> iplot, x, y, xrange=[-6.5, 7.5]
>
> will do the second part (putting the values "a bit inside"). I think
> the XTICKVALUES keyword should have solved the first part (maybe with
> adding the XMAJOR keyword), but I couldn't get the result I was
> expecting from:
>
> iplot, x, y, xtickvalues=x, xmajor=5, xrange=[-6.5, 7.5]
>
> (as a matter of fact, XTICKVALUES didn't seem to ever have any
> effect).

This works:

```
IDL> iplot, x, y, xtickvalues=x, xmajor=5, xrange=[-6.5, 7.5], $  
      xtickname=Strtrim(x,2)
```

Which leads me to wonder if this is a documentation problem, rather than an iPlot problem. The solution has an "object graphics" flavor to it that the technical writer might have missed.

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: Iplot x labeling

Posted by [David Fanning](#) on Mon, 04 Jun 2007 00:26:12 GMT

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David Fanning writes:

```
> This works:
>
> IDL> iplot, x, y, xtickvalues=x, xmajor=5, xrange=[-6.5, 7.5], $
>         xtickname=Strtrim(x,2)
>
> Which leads me to wonder if this is a documentation problem, rather
> than an iPlot problem. The solution has an "object graphics" flavor
> to it that the technical writer might have missed.
```

Humm. Well, when I started to write an article about this, I realized this is wrong, too. Consider the following code:

```
IDL> x = [-6.1, -4.3, 1.25, 5.1, 7.0]
IDL> y = [5, 4, 3, 4, 5]
IDL> iPlot, x, y, XRANGE=[-6.5, 7.5], XMAJOR=5, XTICKVALUES=x, $
        XTICKNAME=String(x, Format='(F5.2)'), SYM_INDEX=7
```

Notice that the labels and the actual plotted values are not aligned. :-)

I don't know. But this is clearly not right and I haven't been able to come up with anything to make it right in 30 minutes of effort. This is in IDL 6.4.

I guess I would report this as a bug.

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: Iplot x labeling

Posted by jochem.verelst@gmail.com on Mon, 04 Jun 2007 19:19:37 GMT

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Hi David,

Thanks a lot for your efforts to help me out! To me it is really strange that such apparently trivial problem cannot being resolved properly in IDL.

I reported the problem. Though I can imagine you are in closer contact with those magic software designers. If there are any advances on this issue, please let us know.

Greetzz,
Joe

On Jun 4, 2:26 am, David Fanning <n...@dfanning.com> wrote:

> David Fanning writes:

>> This works:

>

>> IDL> iplot, x, y, xtickvalues=x, xmajor=5, xrange=[-6.5, 7.5], \$

>> xtickname=Strtrim(x,2)

>

>> Which leads me to wonder if this is a documentation problem, rather

>> than an iPlot problem. The solution has an "object graphics" flavor

>> to it that the technical writer might have missed.

>

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> realized this is wrong, too. Consider the following code:

>

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> IDL> y = [5, 4, 3, 4, 5]

> IDL> iPlot, x, y, XRange=[-6.5, 7.5], XMajor=5, XTickValues=x, \$

> XTICKNAME=String(x, Format='(F5.2)'), SYM_INDEX=7

>

> Notice that the labels and the actual plotted values are not

> aligned. :-(

>

> I don't know. But this is clearly not right and I haven't been

> able to come up with anything to make it right in 30 minutes

> of effort. This is in IDL 6.4.

>

> I guess I would report this as a bug.

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

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