
Subject: Help with IDLgrAxis

Posted by [El-Kady, Mostafa](#) on Wed, 08 Apr 1998 07:00:00 GMT

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Hello,

I am trying to draw an axis with variable tick interval. As I understood from the documents, I can use TICKVALUES to do that. So, here is what I did:

```
ticks = [0, 0.1, 0.3, 0.8, 1.0]
text = OBJ_NEW('IDLgrText', STRING(ticks))
axis = OBJ_NEW('IDLgrAxis', 0, MAJOR=N_ELEMENTS(ticks), /EXACT, $
               TICKTEXT=text, TICKVALUES=ticks)
```

The resulting axis has tickvalue of 0, 0.1, 0.3, 0.8, 1.0 as I want it, but at equal intervals. From the GetProperty method, I get TICKVALUES as 0.00 0.25 0.50 0.75 1.00

Has anyone got this problem?

Thanks.

Subject: Re: Help with IDLgrAxis

Posted by [davidf](#) on Thu, 09 Apr 1998 07:00:00 GMT

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Martin Schultz (mgs@io.harvard.edu) writes:

```
> ??????????
> David: are you on vacation ?
>
> Here is a simple program for direct graphics that does it:
```

Uh, you know the thing I like about IDL? After a certain period of time, you begin to forget more about it than you used to know. This gives you the opportunity to re-learn everything again. Keeps everything fresh that way, if you know what I mean. :-)

Let's just say that there is only so much room in the ol' noggin, and if I'm going to put object programming in, something is going to have to fall out. Thank God, Dick arrives next week. In the nick of time it looks like. :-(

Cheers,

David

David Fanning, Ph.D.
Fanning Software Consulting
E-Mail: davidf@dfanning.com
Phone: 970-221-0438
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Help with IDLgrAxis
Posted by [Martin Schultz](#) on Thu, 09 Apr 1998 07:00:00 GMT
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David Fanning wrote:

```
>
> Mostafa El-Kady (mostafa@kraken.atmos.colostate.edu) writes:
>
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>> from the documents, I can use TICKVALUES to do that. So, here is what
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>> TICKVALUES as 0.00 0.25 0.50 0.75 1.00
>
> As far as I know, it is NOT possible to create an axis in
> either direct or object graphics with variable tick intervals,
> unless you entirely suppress the tick labels and marks and
> draw them yourself with low-level routines like PlotS and XYOutS.
>
```

??????????

David: are you on vacation ?

Here is a simple program for direct graphics that does it:

pro varticks

```
; plot axis with variable tick intervals
plot,findgen(10),color=1,xticks=4,xtickv=[ 0., 1.5, 3.7812, 10. ]
; overplot regular intervals to prove the point
```

```
plot,findgen(10),color=2,/noerase
```

```
return  
end  
-----
```

> I don't think it would be too hard to write your own variable
> interval axis routine from scratch, however. (Perhaps Martin
> Schultz will do it for us. He has been in the programming
> groove lately. :-))

well true. But I don't have to reinvent *every* wheel that's out there
;-)

Regards,
Martin

--

Dr. Martin Schultz
Department for Earth&Planetary Sciences, Harvard University
186 Pierce Hall, 29 Oxford St., Cambridge, MA-02138, USA

phone: (617)-496-8318
fax : (617)-495-4551

e-mail: mgs@io.harvard.edu
IDL-homepage: <http://www-as.harvard.edu/people/staff/mgs/idl/>
