
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:
>
>> 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
>
> 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

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