
Subject: Re: IDLgrAxis set TICKVALUES in specific positions
Posted by [David Fanning](#) on Thu, 17 Jul 2008 15:39:10 GMT
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bernat writes:

- > I want to set TICKVALUES in the IDLgrAxis in certain specific
- > positions which I would define. Is similar to TICKPOS property in
- > IDLgrColorbar.
- >
- > How to do that ?

I think you would get the text object from your axis with
the TICKTEXT keyword, then set the LOCATIONS of the strings.

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: IDLgrAxis set TICKVALUES in specific positions
Posted by [natha](#) on Thu, 17 Jul 2008 16:32:31 GMT
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On Jul 17, 11:39 am, David Fanning <n...@dfanning.com> wrote:

- > I think you would get the text object from your axis with
- > the TICKTEXT keyword, then set the LOCATIONS of the strings.
- >

I tried it with no results. EXAMPLE:

```
values=['0','30','50','70']
values_pos=['50','55','76','256']
text_arr=objarr(n_elements(values))
for i=0, n_elements(values)-1 do begin
  itext=OBJ_NEW('IDLgrText', values[i], FONT=self.font, $
    RECOMPUTE_DIMENSIONS=2, /ENABLE_FORMATTING)
  text_arr[i]=itext
endfor
```

;;-- then the axis

```
axis=OBJ_NEW('IDLgrAxis', 1, TEXTPOS=1, TICKDIR=0, $
  TICKTEXT=text_arr, /EXACT, MAJOR=N_ELEMENTS(values), MINOR=0,
  TICKLEN=3)
```

```
axis->GetProperty, TICKTEXT=ticktext, YCOORD_CONV=ys
for i=0, n_elements(ticktext)-1 do begin
  location=[ys[0], (values_pos[i]/256.)*ys[1]]
  ticktext[i]->SetProperty, LOCATION=location
endfor
```

```
xobjview, axis
```

Subject: Re: IDLgrAxis set TICKVALUES in specific positions
Posted by [David Fanning](#) on Thu, 17 Jul 2008 16:59:40 GMT
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bernat writes:

```
> I tried it with no results. EXAMPLE:
>
> values=['0','30','50','70']
> values_pos=['50','55','76','256']
> text_arr=objarr(n_elements(values))
> for i=0, n_elements(values)-1 do begin
>   itext=OBJ_NEW('IDLgrText', values[i], FONT=self.font, $
>     RECOMPUTE_DIMENSIONS=2, /ENABLE_FORMATTING)
>   text_arr[i]=itext
> endfor
>
> ;-- then the axis
>
> axis=OBJ_NEW('IDLgrAxis', 1, TEXTPOS=1, TICKDIR=0, $
>   TICKTEXT=text_arr, /EXACT, MAJOR=N_ELEMENTS(values), MINOR=0,
>   TICKLEN=3)
>
> axis->GetProperty, TICKTEXT=ticktext, YCOORD_CONV=ys
> for i=0, n_elements(ticktext)-1 do begin
>   location=[ys[0], (values_pos[i]/256.)*ys[1]]
>   ticktext[i]->SetProperty, LOCATION=location
> endfor
>
> xobjview, axis
```

The thing about object graphics that makes it so much fun to work with, is that there are thousands of ways to do something incorrectly and one one way (usually) to do it right. And the best part is: YOU GET NO FEEDBACK!!! :-)

Try this:

```
values=['0','30','50','70']
values_pos=['50','55','76','256']
text_arr=objarr(n_elements(values))
for l=0, n_elements(values)-1 do begin
    itext=OBJ_NEW('IDLgrText', values_pos[l], $
        RECOMPUTE_DIMENSIONS=2, /ENABLE_FORMATTING)
    text_arr[l]=itext
endfor

;-- then the axis

axis=OBJ_NEW('IDLgrAxis', 1, TEXTPOS=1, TICKDIR=0, $
    TICKTEXT=text_arr, /EXACT, MAJOR=N_ELEMENTS(values), MINOR=0,$
    TICKLEN=3, TICKVALUES=values_pos/256.)

axis->GetProperty, TICKTEXT=ticktext, YCOORD_CONV=ys
for l=0, n_elements(ticktext)-1 do begin
    location=[ys[0], (values_pos[l]/256.)*ys[1]]
    ticktext[l]->SetProperty, LOCATION=location
endfor

xobjview, axis

END
--
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: IDLgrAxis set TICKVALUES in specific positions
Posted by [natha](#) on Thu, 17 Jul 2008 17:10:33 GMT
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:)

Only using TICKVALUES it's enough !
Then it's not necessary to do the last FOR loop to move each string in
the right position.

Thanks
