
Subject: Re: How to add values over bars which I plotted?
Posted by [David Fanning](#) on Fri, 17 Dec 2004 23:05:10 GMT
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Hang Gao writes:

> I plotted 12 bars by using bar_plot.pro. Now, what I want to do is to
> add the 12 individual values over the top of 12 bars, which I often
> did in EXCEL. I tried to use xyouts procedure, but I was not sure
> about the x-positions where I suppose to add my vaules. How to know
> the exact x positions where IDL added 12 barnames automaticly? A
> further question: how to determine the distance between 2 y axes?
>
> For example, I bar_plotted: indgen(12). now I want to add the value
> [0,1,...11]
> over the 12 bars I plotted. Then how to do it?

This turned out to be a little harder than I thought
it should have been. :-)

I had to add a keyword to BAR_PLOT to get it to work, since
I need to know where the program drew the bars and it wouldn't
tell me. By examining the program, I could see the information
I needed was in the variable "ticks", so I just created a TICKS
keyword on BAR_PLOT:

```
Pro Bar_Plot, data, ..., TICKS=ticks
```

Then, I got the labels on like this:

```
data = indgen(12) + 2  
x = indgen(12) + 0.5  
Loadct, 5, NColors=13  
bar_plot, data, Colors=indgen(12)+1, tickv=tickv
```

```
skosh = (!Y.CRange[1] - !Y.CRange[0]) / 40.
```

```
FOR j=0,N_Elements(data)-1 DO $  
  XYOUTS, tickv[j], data[j]+skosh, Align=0.5, $  
  StrTrim(data[j],2),/Data
```

The "skosh" variable would probably be expressed in normalized
coordinates, then converted to DATA coordinates with Coord_Convert
if I were doing this for real. :-)

Cheers,

David

P.S. While you are adding keywords, this program could use a POSITION keyword, too.

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
