
Subject: Re: Plotting a Text Box below a plot so that also works when !P.MULTI is set.

Posted by [davidf](#) on Fri, 20 Nov 1998 08:00:00 GMT

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Axel Schweiger (axel@apl.washington.edu) writes:

- > I want to plot a box containing text below an existing plot which
- > contains a graphic. I want this to work also when !P.multi is set.
- >
- > I have played around a bit with the POSITION parameter but that doesn't
- > seem to work when used with !P.MULTI. The Margins are another option. I
- > probably
- > could figure this out but somebody probably has already.

I think you may have to give up on !P.Multi in this case, unless you are really, really clever (and even then I'm not sure you could do it or that it would be worth the effort). I think it would be much easier to just position the plots in the window yourself. Subsequent plots can be drawn into the window with the NOErase keyword.

Cheers,

David

--

David Fanning, Ph.D.

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Plotting a Text Box below a plot so that also works when !P.MULTI is set.

Posted by [davidf](#) on Sun, 22 Nov 1998 08:00:00 GMT

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

- > Hey David!
- >
- > Wasn't it you yourself who told me about !x.window and !y.window which store
- > the size of the current plot window? As a first try you could position your
- > text with something like
- > px = (!x.window[0]+!x.window[1])/2.
- > py = !y.window[0]

> xyouts,px,py,yourtext,/norm,align=0.5
> and if you use the !x.margin and !y.margin keywords, you may even be able to
> prevent the plot and the text box from running into each other.

All true, but NOT, I think, with !P.Multi. For one thing, the !X.Window parameters are not set until *after* the plot is made. It would be possible, probably, to use !P.Multi to do some of the nasty calculating for you. Especially with respect to calculating the proper character size, etc. for the plots. I did something similar with a complicated plot object I created some time ago that had to plot itself into a window grid. But the actual plots were drawn with the parameters that I got from !P.Multi, not by using it directly.

> The beauty of !p.multi is that you can easily specify the number of rows and
> columns without having to go through these non-trivial calculations of the
> position parameter. I don't think one should drop this too fast.

!P.Multi is beautiful. In fact, more beautiful and useful than most people realize. But I still think it is not the correct choice for this particular application.

Cheers,

David

--

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Subject: Re: Plotting a Text Box below a plot so that also works when !P.MULTI is set.

Posted by [Martin Schultz](#) on Sun, 22 Nov 1998 08:00:00 GMT

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David Fanning wrote:

> Axel Schweiger (axel@apl.washington.edu) writes:
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> David
>
> --
> David Fanning, Ph.D.
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Hey David!

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```

```
py = !y.window[0]
```

```
xyouts,px,py,yourtext,/norm,align=0.5
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and if you use the !x.margin and !y.margin keywords, you may even be able to prevent the plot and the text box from running into each other.

The beauty of !p.multi is that you can easily specify the number of rows and columns without having to go through these non-trivial calculations of the position parameter. I don't think one should drop this too fast.

Regards,
Martin.

--

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Subject: Re: Plotting a Text Box below a plot so that also works when !P.MULTI is set.

Posted by [David L. Windt](#) on Mon, 23 Nov 1998 08:00:00 GMT

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Have a look at my plot_text program, which allows you to position text underneath a plot (or inside a plot). For example, try this:

```
!p.multi=[0,1,2]
plot,[1,2],ymargin=[10,2]
plot_text,['Some text','Some more text'],position=1
plot,[1,2]
```

You can also use my legend program to position a plot legend the same way.

The plot_text and legend procedures are part of the 'windt library', available at <http://www.bell-labs.com/user/windt/idl>

-David Windt
