
Subject: question on exactly when !p.position is defined
Posted by [astroboy.20000](#) on Mon, 15 Jul 2013 21:17:27 GMT
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Hello,

Apologies in advance if this topic has been addressed before but I haven't been able to find it.

I'm just not clear on when !p.position is defined, despite doing of reading and experimentation.

I've written a routine that collects the !p,!xyz and !m and !d.window variables into a structure so that I can go back to an earlier (multi) plot and overplot, using the original !xyz axis values. It works fine, except for the !p.position variable.

It seems to be that one should be able to do something like this:

```
!p.multi=[0,2,2]
plot,findgen(10)

print,!p.position
```

and have !p.position give the plot-data window of the plot just made.... However, the values are [0,0,0,0] instead of something like [.05,.05,.9,.9].

Of course, I've used the position and !p.position variables to locate a plot on a page, so at least I understand how things work in that application.

However, I guess I'm just not clear on how to obtain the position coordinates of a plot just made....

Thanks in advance. This might sound like a trivial problem but if I could solve it, it would be a big help.

Subject: Re: question on exactly when !p.position is defined
Posted by [David Fanning](#) on Mon, 15 Jul 2013 21:37:45 GMT
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astroboy.20000@gmail.com writes:

> Of course, I've used the position and !p.position variables to locate a plot on a page, so at least I understand how things work in that application.

>

> However, I guess I'm just not clear on how to obtain the position coordinates of a plot just made....

Unfortunately, unless you use, for example, cgLayout, you have to do this after the fact. First, draw the plot:

```
cgPlot, ....
```

Then, capture the position of the plot:

```
plotPosition = [!X.Window[0], !Y.Window[0], $  
                !X.Window[1], !Y.Window[1]]
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: question on exactly when !p.position is defined
Posted by [astroboy.20000](#) on Mon, 15 Jul 2013 21:41:07 GMT
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On Monday, July 15, 2013 5:37:45 PM UTC-4, David Fanning wrote:

> astroboy.20000@gmail.com writes:

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> Cheers,
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>
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> David
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> --
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> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
```

Thanks very much David, I can certainly do that (although it's a bit of a pain, but that's why programmers are paid such enormous salaries!)
