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Subject: Re: Plotting to more than one window  
Posted by [David Fanning](#) on Fri, 21 Feb 2003 17:58:36 GMT  
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Matt Feinstein (notspecified@dev.null) writes:

> I'm trying to plot data alternately, back and forth, to more than one  
> window, and have discovered, to my horror, that OPLOT uses the  
> coordinate conversion parameters for the -last- 'PLOT' procedure,  
> regardless of what the current window you're plotting in happens to  
> be. I can think of various messy and unpleasant ways to get the  
> plotting coordinate parameters I want in the windows I want, when I  
> want them-- but it would be nice if there was a neat and pleasant way  
> to do it-- is there?

Do you mean without using an object? Then, no, there  
is no neat and pleasant way to do it. :-)

The messy way, of course, is just to save the appropriate  
system variables:

```
Window, 1
Plot, data
p1 = !P
x1 = !X
y1 = !Y
z1 = !Z
m1 = !Map
```

```
Window, 2
Plot, moredata
p2 = !P
x2 = !X
y2 = !Y
z2 = !Z
m2 = !Map
```

Then, when you want to overplot, restore everything:

```
WSet, 1
!P = p1
!X = x1
!Y = y1
!Z = z1
!Map = m1
OPlot, somedataOn1
```

Cheers,

David

P.S. I can think of several interesting ways to do this with an object. And it would be neat and pleasant, but you would have to remember to destroy the object when you were done with it. If your mama trained you right, this probably wouldn't be a problem. :-)

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: Plotting to more than one window  
Posted by [notspecified](#) on Fri, 21 Feb 2003 18:41:28 GMT  
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On Fri, 21 Feb 2003 10:58:36 -0700, David Fanning <[david@dfanning.com](mailto:david@dfanning.com)> wrote:

```
>
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>
> The messy way, of course, is just to save the appropriate
> system variables:
>
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>
> Window, 2
> Plot, moredata
> p2 = !P
> x2 = !X
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> z2 = !Z
> m2 = !Map
>
> Then, when you want to overplot, restore everything:
```

```
>
> WSet, 1
> !P = p1
> !X = x1
> !Y = y1
> !Z = z1
> !Map = m1
> OPlot, somedataOn1
>
> Cheers,
```

Neat-- I hadn't realized I could change 'system' variables like that.  
Opens the door to all sorts of mischief.

Matt Feinstein does not include his email address  
in the text of usenet postings.

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Harvard Law of Automotive Repair: Anything that goes away  
by itself will come back by itself.

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Subject: Re: Plotting to more than one window  
Posted by [btupper](#) on Sat, 22 Feb 2003 01:49:40 GMT  
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On Fri, 21 Feb 2003 18:41:28 GMT, notspecified@dev.null (Matt  
Feinstein) wrote:

```
> On Fri, 21 Feb 2003 10:58:36 -0700, David Fanning <david@dfanning.com>
> wrote:
>
>>
>> Do you mean without using an object? Then, no, there
>> is no neat and pleasant way to do it. :-)
>>
>> snipped
>
> Neat-- I hadn't realized I could change 'system' variables like that.
> Opens the door to all sorts of mischief.
>
> Hi,
```

Before computers had keyboards and monitors, Liam Gumley had prepared  
a neat solution to this multiple 'frames' problem using an IDL dodad  
called handles (I think these are widget IDs.) It is a really slick  
setup that allows you to save a 'frame' (e.g. the plotting parameters,  
etc.) for a window, and then come back to it with having to replot.  
You could move back and forth among different frames. I don't think

these tools (sf.pro, af.pro, lf.pro, bf.pro) are at [www.gumley.com](http://www.gumley.com).  
Try a google search.

I have adapted this idea to an object based frame tool that can be used from the command line or within an application. Like Liam's setup, it is for direct graphics routines. Each frame is stored in a container and can be retrieved by name or position index. Frames can be accessed randomly. It saves the system variables (and other things) as David describes. It is available at [www.tidewater.net/~pemaquid](http://www.tidewater.net/~pemaquid)

Cheers,  
Ben

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Subject: Re: Plotting to more than one window  
Posted by [R.Bauer](#) on Sat, 22 Feb 2003 14:32:14 GMT  
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David Fanning wrote:

```
> Matt Feinstein (notspecified@dev.null) writes:
>
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>> be. I can think of various messy and unpleasant ways to get the
>> plotting coordinate parameters I want in the windows I want, when I
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>> to do it-- is there?
>
> Do you mean without using an object? Then, no, there
> is no neat and pleasant way to do it. :-)
>
> The messy way, of course, is just to save the appropriate
> system variables:
>
> Window, 1
> Plot, data
> p1 = !P
> x1 = !X
> y1 = !Y
> z1 = !Z
> m1 = !Map
>
```

There are two routines of our library which saves and restores these system

variables.

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/savesysvar.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/savesysvar.tar.gz)  
[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/restsysvar.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/restsysvar.tar.gz)

regards

Reimar

be a problem. :-)

>

--

Forschungszentrum Juelich  
email: R.Bauer@fz-juelich.de  
<http://www.fz-juelich.de/icg/icg-i/>

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a IDL library at Forschungszentrum Juelich  
[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html)

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Subject: Re: Plotting to more than one window

Posted by [Pavel Romashkin](#) on Mon, 24 Feb 2003 19:19:44 GMT

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I use DISPLAY to do this. It is object based but you don't have to think of it this way - it is command-line driven. You can specify to keep the coordinate system for each Display window, and you can have as many open at the same time as your screen will fit. Plus, you get legends, colors, mouse-click for plot deletion, moveable text labels, and ROI.

Disclaimer: 2D plotting only.

[http://www.ainaco.com/idl/idl\\_library/display.html](http://www.ainaco.com/idl/idl_library/display.html)

Cheers,  
Pavel

Matt Feinstein wrote:

>

> Hi all--

>

> I'm trying to plot data alternately, back and forth, to more than one  
> window, and have discovered, to my horror, that OPLOT uses the  
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