
Subject: Re: How to "reuse" a function graphics plot window?
Posted by [Michael Galloy](#) on Thu, 25 Aug 2011 17:14:46 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 8/25/11 11:01 AM, Paul van Delst wrote:

```
> Hello,
>
> This is probably a silly question with a (hopefully) simple answer, but here goes any way...
>
> How does one reuse an already created FG plot window?
>
> A common usage of mine when plotting in DG is to allow myself to sequentially view multiple
plots in the same window
> where I control the speed of update via use of get_kbrd(1), eg
>
>   for i = 0, np-1 do begin
>     plot, x, y[*,i]
>     q = get_kbrd(1)
>     if ( strupcase(q) eq 'Q' ) then break
>   endfor
>
> Here the same plot window is "re-used" for all the subsequent plots. What I came up with via
FG is
>
>   for i = 0, np-1 do begin
>     p = plot(x, y[*,i],/current)
>     q = get_kbrd(1)
>     if ( strupcase(q) eq 'Q' ) then break
>     if ( i lt np-1 ) then p.delete
>   endfor
>
> which doesn't work right since the "p.delete" doesn't delete the axes.
>
> The close method is no good since it destroys and creates another window (in another position
.... and it steals my
> mouse focus each time too).
>
> Anyone have any ideas? Is there a technique or method that will allow me to do in FG what I
have always been able to do
> in DG?
>
> thanks,
>
> paulv
>
>
> p.s. a working procedure exhibiting the above examples is below:
> -----%<-----
```

```

> pro blah
>
>   nx = 1000
>   np = 4
>   x = findgen(nx)/100.0
>   y = fltarr(nx,np)
>   y[* ,0] = x^2
>   y[* ,1] = 0.05*x^3
>   y[* ,2] = 0.0025*x^4
>   y[* ,3] = 0.0000125*x^5
>
>   for i = 0, np-1 do begin
>     plot, x, y[* ,i]
>     q = get_kbrd(1)
>     if ( strupcase(q) eq 'Q' ) then break
>   endfor
>
>   for i = 0, np-1 do begin
>     p = plot(x, y[* ,i],/current)
>     q = get_kbrd(1)
>     if ( strupcase(q) eq 'Q' ) then break
>     if ( i lt np-1 ) then p.delete
>   endfor
>
> end
> -----%<-----

```

I think the best way to do this would be to use the setData method.
 Something like:

```

p = plot([0, 1], /nodata)
for i = 0, np - 1 do begin
  p->setData, x, y[* , i]
  q = get_kbrd(1)
  if (strupcase(q) eq 'Q') then break
endfor

```

Mike

--

Michael Galloy

www.michaelgalloy.com

Modern IDL, A Guide to Learning IDL: <http://modernidl.idldev.com>

Research Mathematician

Tech-X Corporation
