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

```

Mike

--

Michael Galloy

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

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Subject: Re: How to "reuse" a function graphics plot window?

Posted by [Paul Van Delst\[1\]](#) on Thu, 25 Aug 2011 19:01:55 GMT

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Excellent - exactly what I was looking for!

Thanks!

paulv

Michael Galloy wrote:

> 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?

>>

[snip]

>

> 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 (strucase(q) eq 'Q') then break

> endfor

>

> Mike