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 (ilt 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 (ilt 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
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