
Subject: Re: NG: bring_to_front doesn't always work
Posted by [dg86](#) on Tue, 05 Aug 2014 01:35:16 GMT
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Dear Chris,

I believe I've narrowed it down. Error bars erroneously obscure some overlying plot symbols provided that two conditions are met:

1. at least two data sets are plotted in the same plot using the OVER keyword and
2. the primary plot is resized using the POSITION keyword.

In this case, some of the plot symbols in the secondary plot will be obscured, not the primary.

The following example is not exactly minimal, but reproducibly exercises the bug.
Set bug = 0 to turn the bug off.

Thanks for looking into this. TTFN,

David

===== cut here for example =====

bug = 1 ; buggy plot if true

colors = ['lavender', 'yellow']
symbols = ['s', 'o']

```
.....  
; ; ; ;  
;  
; The primary plot  
;  
; All is well unless this has its shape changed with the  
; POSITION keyword  
;  
pos = [0.125, 0.11, 0.97, 0.97]
```

t = [15, 20, 25, 30, 40, 50, 60, 90, 120] ; sampling times [minutes]

```
ap = [0.422150, $  
      0.539150, $  
      0.646400, $  
      0.704250, $  
      0.730250, $  
      0.753000, $  
      0.754300, $  
      0.786150, $  
      0.781600] ; radius [micrometers]  
dap = [[0.032500, 0.021450], $  
       [0.052650, 0.056550], $
```

```

[0.115050, 0.058500], $
[0.065000, 0.048750], $
[0.055250, 0.054600], $
[0.053300, 0.031850], $
[0.070850, 0.078000], $
[0.052650, 0.112450], $
[0.027300, 0.055250]] ; range of radii [micrometers]

```

```

pl = errorplot(t, ap, dap, linestyle = "", $
    xrange = [0, 130], $
    xtitle = 't [min]', ytitle = '$a_p(t)$ [$\mu$m]', $
    errorbar_color = 'grey', $
    font_size = 16)
ps = plot(t, ap, linestyle = "", sym_color = 'grey', sym_fill_color = colors[0], $
    symbol = symbols[0], /sym_filled, sym_size = 1.2, $
    sym_thick = 1.5, $
    over = pl)

```

```

if bug then pl.position = pos

```

```

.....
;,,,,
;
;
; The secondary plot
;
;
; Some, but not all plot symbols (circles) are obscured by vertical
; bar if the primary plot's shape was changed with the POSITION
; keyword
;
;
t = [15, 25, 35, 45, 60, 90]

```

```

ap = [0.502400, $
    0.650400, $
    0.835200, $
    0.913600, $
    0.976000, $
    0.998400]
dap = [[0.036800, 0.035200], $
    [0.032800, 0.040000], $
    [0.054400, 0.044800], $
    [0.060000, 0.049600], $
    [0.057600, 0.049600], $
    [0.047200, 0.042400]]

```

```

pl2 = errorplot(t, ap, dap, linestyle = "", over = pl)
ps2 = plot(t, ap, linestyle = "", sym_color = 'black', $
    symbol = symbols[1], /sym_filled, sym_fill_color = colors[1], sym_size = 1.5, $
    sym_thick = 2, $
    over = pl)

```

```
.....  
; ; ; ; ;  
;  
; Even moving the symbols to the "front" doesn't fix the issue  
;  
;  
ps2.order, /bring_to_front  
  
;pl.save, 'minimal2.png', resolution = 150, border = 1  
  
===== end of example =====
```
