Subject: fg Margin and Layout keyword problems
Posted by Matthew Argall on Fri, 24 Apr 2015 15:45:16 GMT

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I am trying to make four plots in a 2x2 layout with a rather lengthy caption (example below). The MARGIN and LAYOUT keywords are not playing well together. I set the bottom margin to 0.5, but it is not obeyed; the spacing between plots increases instead.

A few follow-up questions:

1. Why are the margins limited to 0.5? I sometimes want a left margin of 0.75 so I can push a column of plots to the right side of the window. It is much easier to use LAYOUT than to specifying a position for every plot.

2. Why is MARGIN not a keyword of the Window() function? Margins are typically a property of the page, not of the content on the page.

3. It would be helpful to be able to specify the spacing between plots.

4. Why do I have to specify the layout index instead of a layout position? I would rather not have to count to across rows and down columns every time I want to place a plot somewhere. Specifying the [row, column] in which I want to place the plot would be much more helpful.

I use cgLayout for all of this, but it should be natural in function graphics.

```
figure = window(WINDOW_TITLE='Margins and Layout')
margin = [0.2, 0.5, 0.05, 0.08]

;Create a lag-1 scatter plot for the first 128 data points
;  - Plot x_i+1 vs. x_i
p1 = Plot(/TEST, /CURRENT, $
        LAYOUT    = [2,2,1], $
        MARGIN    = margin)

p2 = Plot(/TEST, /CURRENT, $
        LAYOUT    = [2,2,2], $
        MARGIN    = margin)

p3 = Plot(/TEST, /CURRENT, $
        LAYOUT     = [2,2,3], $
        MARGIN    = margin)

p4 = Plot(/TEST, /CURRENT, $
        LAYOUT     = [2,2,4], $
        MARGIN    = margin)
```

```
;Create a caption
gCaption = Text(0.05, 0.06, $
          'Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah !C' + $
          'Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah !C' + $
          'Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah !C' + $
          'Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah !C' + $
          'Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah !C' + $
          'Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah Blah')
```