Subject: Re: cGimage, Multiplot with /KEEP_ASPECT_RATIO
Posted by Fabzi on Tue, 12 Feb 2013 14:32:04 GMT
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Just by pure curiosity: is this problem (displaying two images of
different aspect ratios + a colorbar in a line) anyhow easier in NG?

On 02/12/2013 03:20 PM, Fab wrote:
Hi David,

Thanks, I adapted your idea in my code and after a few dozens of tries I
am satisfied with the output ;-) I won't change anything at the code
anymore though!

Cheers,

Fabien

On 02/12/2013 02:54 PM, David Fanning wrote:
Fab writes:

In the following I am making two plots with cg* routines.

```
img1 = cgDemoData(7)
img2 = congrid(img1, 360, 180)
cgDisplay, 900, 400
!P.Multi = [0, 2, 1]
multimargin = [1,1,1,1]
cgImage, img1, MULTIMARGIN=multimargin, /KEEP_ASPECT_RATIO, /AXES
cgImage, img2, MULTIMARGIN=multimargin, /KEEP_ASPECT_RATIO, /AXES
!P.Multi = 0
```

Nice, but I would like the top limit of the plots being the same
(meaning translate the second plot upwards a bit). I could'nt find an
easy solution. There must be one though! Any thoughts?

POSITION keyword. Heterogeneous positioning of plots is not the forte
of !P.MULTI, who is a guy who craves repetition and homogeneity. :-)

And, since you are asking to keep the aspect ratio, you will have to
be prepared to adjust the position of the second image in Y space.
I would probably try something like this.

```
;-------------------------------------------------
img1 = cgDemoData(7)
img2 = congrid(img1, 360, 180)
cgDisplay, 900, 400
cgImage, img1, /KEEP_ASPECT_RATIO, /AXES, $
```

```
    POSITION=[0.05, 0.1, 0.475, 0.90], OPOSITION=op

s = Size(img2, /Dimensions)
imgaspect = Float(s[1])/s[0]

xdist = 0.95-0.525
ydist = (xdist * imgaspect) * 2
pos2 = [0.525, op[3]-ydist, 0.95, op[3]]
cgImage, img2, /AXES, POSITION=pos2, /NoErase
;-------------------------------------------------
```

Cheers,

David
