Subject: Re: cGimage, Multiplot with /KEEP_ASPECT_RATIO
Posted by David Fanning on Tue, 12 Feb 2013 17:06:48 GMT
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David Fanning writes:

> Alright, this was easy enough to do, so I just had Coyote do it. :-)
>
> Find it here:
>
> http://www.idlcoyote.com/programs/cgaspect.pro
>
> And here is how I would use the routine to display these two images with
> colorbars:
>
> ;---
> img1 = cgDemoData(7)
> img2 = congrid(img1, 360, 180)
> cgDisplay, 900, 450
>
> pos = cgLayout([2,1], OYMargin=[4, 11])
> cgImage, img1, /KEEP_ASPECT_RATIO, CTIndex=3, $
> /AXES, POSITION=pos[*,0], OPOSITION=op
> cgColorbar, CTIndex=3, /Fit
>
> pos2 = pos[*,1]
> ydiff = op[3] - pos2[3]
> pos2[3] = op[3]
> pos2[1] = pos2[1] + ydiff
>
> img2pos = cgAspect(Position=pos2, Aspect=img2, Align='top')
> cgImage, img2, /AXES, POSITION=img2pos, CTIndex=2, /NoErase
> cgColorbar, CTIndex=2, /Fit
> END
> ;---

That's a little convoluted. Just for the record, here is a better
formulation that takes better advantage of cgAspect.

```
 ;------------------------------------------------------- --
img1 = cgDemoData(7)
img2 = congrid(img1, 360, 180)
cgDisplay, 900, 450

pos = cgLayout([2,1], OYMargin=[4, 11], OXMargin=[5, 8], XGap=6)
pos1 = pos[*,0]
img1pos = cgAspect(Position=pos1, Aspect=img1, Align='top')
cgImage, img1, CTIndex=3, /AXES, POSITION=img1pos, OPOSITION=op
```

```
cgColorbar, CTIndex=3, /Fit

pos2 = pos[*,1]
ydiff = op[3] - pos2[3]
pos2[3] = op[3]
pos2[1] = pos2[1] + ydiff

img2pos = cgAspect(Position=pos2, Aspect=img2, Align='top')
cgImage, img2, /AXES, POSITION=img2pos, CTIndex=2, /NoErase
cgColorbar, CTIndex=2, /Fit
END
 ;------------------------------------------------------------ --
```

Cheers,

David
--
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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. (''Perhaps thou speakest truth.'')
