
Subject: Re: cGImage, Multiplot with /KEEP_ASPECT_RATIO
Posted by [David Fanning](#) on Tue, 12 Feb 2013 16:31:11 GMT
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David Fanning writes:

```
>
> Fab writes:
>
>> 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!
>
> Here is a programming challenge that will make this very much easier
> next time.
>
> Modify ASPECT (and feel free to rename the new program cgAspect) to
> accept an input position for which it can calculate a final position
> with the correct aspect ratio. This ought to be possible, since cgImage
> can apparently do this. ;-)
```

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

;-----

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.")
