Subject: Re: Q: square plots in IDL Posted by bowman on Mon, 28 Nov 1994 14:46:19 GMT

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In article <3bc67s\$6em@info.estec.esa.nl>, gvacanti@estsa2.estec.esa.nl (Giuseppe Vacanti) wrote:

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> Hello-
> I would like to plot data so that the aspect ratio of the plot is
> equal to 1 (a circle would actually be a circle on paper, and not
> an ellipse, as it is in my IDL documentation). I have played with
> various key-words but I don't seem able to get it right.
>
> Any input is welcome.
> Thanks,
This works for me:
PRO SET_ASPECT, aspect, MARGIN = margin
; This program sets the plot position, !P.POSITION
; to ensure the desired aspect ratio for the final
; plot with a margin on each side.
;Find the aspect ratio of the current window
daspect = FLOAT(!D.Y_SIZE)/FLOAT(!D.X_SIZE)
IF NOT KEYWORD SET(margin) THEN margin = 0.05
IF(aspect LE daspect) THEN BEGIN
 x0 = margin
 y0 = 0.50 - (0.5 - margin)*(aspect/daspect)
 x1 = 1.0 - margin
 y1 = 0.50 + (0.5 - margin)*(aspect/daspect)
ENDIF ELSE BEGIN
 x0 = 0.50 - (0.5 - margin)*(daspect/aspect)
 y0 = margin
 x1 = 0.50 + (0.5 - margin)*(daspect/aspect)
 y1 = 1.0 - margin
ENDELSE
!P.POSITION = [x0, y0, x1, y1]
RETURN
```

RETURN END

Call it with aspect = 1.0. You can vary the margin as you wish.

Ken Bowman

P.S. As always, bug reports welcome.

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