
Subject: Re: !p.multi and tv
Posted by [csaute3](#) on Wed, 27 May 1998 07:00:00 GMT
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davidf@dfanning.com (David Fanning) wrote:

```
>
> Cathy (csaute3@alumni.umbc.edu) writes:
>
>> I would like to use !P.MULTI and TV to position images like you
>> would plots.
>
>> IDL> window, 0
>> IDL> !p.multi = [0,1,4,0,0]
>> IDL> plot, indgen(10)
>> IDL> plot, indgen(20)
>> IDL> plot, indgen(30)
>> IDL> plot, indgen(40)
>>
>> Is there something else that has this capability?
>>
>
> I can see that "IDL doesn't work like this" won't satisfy
> you. How about something like this:
>
> *****
> PRO MultImages, multi
> IF N_Params() NE 1 THEN multi = [0, 2, 2]
> imageFile = Filepath(SubDir=['examples','data'], 'worldelv.dat')
> image = BytArr(360, 360)
> OpenR, lun, imageFile, /Get_LUN
> ReadU, lun, image
> Free_Lun, lun
> Window, XSize=500, YSize=400
> !P.Multi = multi
> FOR j=0, multi[1]*multi[2]-1 DO BEGIN
>   Plot, Findgen(11), Color=!P.Background ; A hack, unfortunately. :-(
>   x1 = !X.Region[0] + 0.05
>   x2 = !X.Region[1] - 0.05
>   y1 = !Y.Region[0] + 0.05
>   y2 = !Y.Region[1] - 0.05
>   TVImage, image, Position=[x1, y1, x2, y2]
> ENDFOR
> END
> *****
>
> If you want the images in, for example, a 3-by-2 arrangement,
> you can type this:
>
```

```
> !P.Multi = [0, 3, 2]
> IDL> Multimages, !P.Multi
```

This works well. In addition to the image, I would like to add axes, etc.
so I did this loop:

```
FOR j=0, multi[1]*multi[2]-1 DO BEGIN
    ; establish the size of the plot window
    Plot, Findgen(11), Color=!P.Background
    x1 = !X.Region[0] + 0.05
    x2 = !X.Region[1] - 0.05
    y1 = !Y.Region[0] + 0.05
    y2 = !Y.Region[1] - 0.05
    TVImage, image, Position=[x1, y1, x2, y2]
    Plot, Findgen(11), position=[x1, y1, x2, y2], xticklen=-0.02, $
        yticklen=-0.02, xtitle='latitude', ytitle='longitude', /nodata, $
        /noerase
ENDFOR
```

However the xtitle is "cut off" for image(s) along the bottom of the window,
and ytitle is "cut off" for image(s) along the left of the window.
Is there a way to "make them visible"?

Also, if I left the position keyword out of the second plot command,
the plot appeared in the quadrant next to the tvimage (not overlay).
Why?

Thanks for your help,
Cathy

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