
Subject: Re: mixing plots and images in IDL
Posted by [m.c.harrison](#) on Tue, 12 Sep 1995 07:00:00 GMT
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lucio@ifctr.mi.cnr.it (Lucio Chiappetti) wrote:

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>
> I had been told that the correct way to plot an image in colour or
> grayscale in an axis frame (with or without overplotted a contour) was :
>
> ; set up ps device
> ;
>
> device,/helvetica,font_size=12
> plot axes
> tv main image
> replot axes
> tv colour bar with fudge
> device,/helvetica,font_size=5
> annotate tics
>
> IS WRONG
>
> device,/helvetica,font_size=5      SIC !
> plot axes
> tv main image
> replot axes
> tv colour bar with fudge
> device,/helvetica,font_size=5
> annotate tics
>
> IS CORRECT (BUT NOT WHAT I WANT !)
```

```
>
> device,/helvetica,font_size=5
> plot axes
> tv main image
> tv colour bar with fudge
> device,/helvetica,font_size=5
> annotate tics
> device,/helvetica,font_size=12
> replot axes
>
> GIVES THE CORRECT COLOUR BAR BUT THE AXES ARE REPLOTTED WRONG
>
> Now I'd try to play around always with /NORM coordinates, but I'd appreciate
> if somebody could explain the interference between TV, axis setting and font
> setting ....
I had this sort of problem attempting to make my contour mapping routine
```

more generic than just drawing to a window. The problem lay with tv when creating a colour bar. Data coordinates appeared quite different, stretchin over my map and causing mayhem and so I created a box using normal coords, found the extents in data space using conv_coords and filled it that way. THis has problem that anything large enough to be useful can cause the machine to run out of memory, since examining !d.whatsit with 'ps' device set shows there to be hundreds of data points per cm. Eventually I used poly_fill which avoids this problem altogether and might be suitable since youre only byte scaling ..

Hope this is a help

Mike

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