
Subject: positioning a TV image within plotting region
Posted by [Matthew](#) on Thu, 29 Sep 2011 13:50:43 GMT
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I am writing a program in which I need to display an image within a set of axes (frequency vs. time with electric field power spectral density in color). The problem is that, while the position keyword specifies the lower left corner of the plotting region, the plot procedure draws the x and y axes on the inside of this space. So, when I plot my image using the same position that I supplied to the plotting routine, the image covers the x and y axes -- it is drawn on starting on the outer corner of the axes, not on the inner corner.

This would be fine if the axes had a fixed width, but they do not. If I reposition or resize the plot, the axis width changes and the image does not fit snugly within the axes. Is there a trick to get around this?

This happens no matter what coordinates I am using (device, normal, ...). I already know about TVIMAGE and IMDISP, but want to be able to fix the problem myself.

```
position = [x0, y0, x1, y1] ;position in normal coordinates
xsize = (position[2] - position[0]) * !d.x_vsize
ysize = (position[3] - position[1]) * !d.y_vsize
xstart = position[0] * !d.x_vsize
ystart = position[1] * !d.y_vsize

loadct, 13
plot, time, freq, position=position, /normal, /nodata, /noerase
tvsc1, congrid(alog(transpose(E_pwr_dens)), xsize, ysize), xstart,
ystart
```

Subject: Re: positioning a TV image within plotting region
Posted by [David Fanning](#) on Tue, 11 Oct 2011 02:23:57 GMT
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Matthew Argall writes:

- > I am using cgImage to do this and it looks great, but the problem
- > keeps bugging me and I keep returning to my own program. In the PS
- > file, the plot still covers the axes, which is bad when I am trying to
- > find synchronous events between plots... Anyway, I will figure it out
- > eventually, but I wanted to ask: Do you find any use for PS anymore?
- > Only the high end printers come equipped with PS processing. Until IDL
- > added the PDF option, I usually ended up converting my PS files to

> TIFF or PNG to have a file anyone could open.

To be honest, the only use I normally have for PostScript files is to make some other type of files from them using ImageMagick or Ghostview. PostScript files are the only way to get decent fonts from direct graphics routines.

Since this process is almost completely automated now, I don't really even think about ugly fonts anymore.

I just make nice looking PNG and JPEG files of all my graphics output through PostScript intermediate files.

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thue. ("Perhaps thos speakest truth.")
