
Subject: doing !p.multi shade_surf plots in a page
Posted by [lucio](#) on Mon, 24 Apr 1995 07:00:00 GMT
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I am fighting to get three isometric plots (I would like to plot a-b, a and a+b in the same page with the same scaling, where a and b are 256x256 arrays).

I can do ONE plot as I wish using the default scaling as :

```
set_plot,'ps'  
shade_surf,a.data > 0.90,ax=60,az=45,zrange=[0.90,1.10]
```

The X and Y axes appear at +/- 45 from the horizontal and have the same aspect ratio, as it should be.

I can do three plots side by side as contour maps doing

```
set_plot,'ps'  
device,/landscape  
device,xoffset=6,yoffset=28.5,xsize=27.5,ysize=9  
!p.multi=[0,3,1,0,0]  
contour,(a.data-b.data) > 0.90,levels=lev,c_colors=col,c_labels=lab  
contour, a.data > 0.90,levels=lev,c_colors=col,c_labels=lab  
contour,(a.data+b.data) > 0.90,levels=lev,c_colors=col,c_labels=lab
```

The choice of offsets and sizes is such that I get three plots with aspect ratio as close to unity as I can get, ganged horizontally.

Now I thought to do

```
set_plot,'ps'  
device,/landscape  
device,xoffset=6,yoffset=28.5,xsize=27.5,ysize=9  
!p.multi=[0,3,1,0,0]  
shade_surf,(a.data-b.data) > 0.90,ax=60,az=45,zrange=[0.90,1.10]  
shade_surf, a.data > 0.90,ax=60,az=45,zrange=[0.90,1.10]  
shade_surf,(a.data+b.data) > 0.90,ax=60,az=45,zrange=[0.90,1.10]
```

But I get that the plots are "squeezed", the x and y axes do not form equal angles with the horizontal, and the x-axes is much longer than the y-axes.

How can I produce three plots (ganged horizontally or vertically in an A4 page) with the same aspect ratio as the SINGLE shade_surf plot ?

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