
Subject: sec : U Re: Fitting a map to an image
Posted by [Andrew Cool](#) on Thu, 06 Jun 2002 22:42:21 GMT
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Sean Raffuse wrote:

```
>  
> Hello.  
>  
> I have an image of known size and flat geocoordinates. I want to overlay  
> the US states vector in a display window on top of the image. My problem is  
> that I cannot get the two to match up properly. There seems to be a border  
> on the vector, but the image draws to the edge of the window. I tried using  
> the noborder keyword on my call to map_set and also tried setting the !x and  
> !y margins to zero. No luck. Can you help? Here is the relevant code. . .  
>  
> ;set margins to zero  
> x_margin = !x.margin  
> y_margin = !y.margin  
> !x.margin = [0,0]  
> !y.margin = [0,0]  
>  
> ;write output to screen  
> Device, decomposed=0  
> image = reverse(InArray1, 2)  
> LoadCT, 40  
> scaledImage = bytscl(image, Min=0, Max=0.5, Top=255)  
> window, 0, xsize=nscans, ysize=nlines  
> TV, scaledImage  
>  
> ;setup the map  
> xspan = pixelsize*nscans  
> yspan = pixelsize*nlines  
> upperleftlat = mc[3]  
> upperleftlon = mc[2]  
> lowerlat = upperleftlat - yspan  
> rightlon = upperleftlon + xspan  
> map_set, limit=[lowerlat,upperleftlon,upperleftlat,rightlon], /noborder,  
> /noerase  
> map_continents, /usa, color = 254, mlinethick=2  
>  
> ;write to jpeg  
> image = tvread(filename=out_name, /JPEG, /nodialog, Quality=100)  
>  
> ***thanks to David Fanning for the tvread procedure***  
>  
> -Sean Raffuse
```

Sean,

I'd say there's no way that you can just TV an image and *then* call MAP_SET to define the geographic data space!

Try along the lines of :-

1. Map_set .. blah,blah
2. geo_warped_image = Map_image(image,.. blah,blah)
3. TV, geo_warped_image, xpos,ypos.. blah,blah
3. map_continents, /usa, color = 254, mlinethick=2

Andrew

Andrew D. Cool .->-.
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Please remove the crap from my email address to reply ;-)

Subject: Re: U Re: Fitting a map to an image
Posted by [Sean Raffuse](#) on Thu, 06 Jun 2002 23:06:24 GMT
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I don't know if this is unwise, but I don't want to warp the image any. It has already been georeferenced once using ENVI. All I need is a window and map setting that matches the image, which has defined size and geocoordinates with geographic lat/lon projection. I'd rather warp the map than the large image.

-Sean

"Andrew Cool" <andrew.cool@dsto.defence.gov.au> wrote in message news:3CFFE54D.EFC98763@dsto.defence.gov.au...

> Sean Raffuse wrote:

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> Andrew
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