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Subject: Re: Display and Navigate Image in IDL 8.2  
Posted by [DavidF\[1\]](#) on Thu, 06 Sep 2012 17:24:10 GMT  
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Alain writes:

```
> Looking at your map display problem, I got the following issue:
>
> centerlat = 40.6000d
> centerlon = -105.1000d
> xrange = [-11711131.0d, -11688226.0d]
> yrange = [4914254.0d, 4937159.5d]
> map = map_proj_init('Mercator', ELLIPSOID='WGS 84', CENTER_LONGITUDE=0,
CENTER_LATITUDE=0)
> print, map_proj_inverse(mean(xrange), mean(yrange), MAP_STRUCTURE=map)
> ;   -105.10000    40.410029
>
> I should have found 40.6° for the latitude, is'nt it ?
>
> print, map_proj_inverse(xrange, yrange, MAP_STRUCTURE=map)
>
> ;   -105.20288    40.331647
> ;   -104.99712    40.488320
>
> Same thing regarding the latitude range boundaries which seem slightly different
>
> from those in your PNG example (40.525 and 40.675, by eye).
```

The numbers could well be off a little bit. Google doesn't (I suppose deliberately) supply these images in GeoTiff format, so I had to determine the pixel per meter value from other published data. It involved some detective work and assumptions (see `cgGoogle_MetersPerPixel`). Using the numbers I used, however, my markers lined up exactly with Google's own markers, so I'm guessing the numbers are close enough for my use.

But, all this is beside the point. I really want to know how to navigate and display this image using function graphics routines. I can use whatever projected meter numbers I like, and I *still* can't see the image in a display window. If I could, maybe I could work on the details of whether my map projection numbers are totally accurate. ;-)

Cheers,

David

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