

---

Subject: Re: Display and Navigate Image in IDL 8.2  
Posted by [lecacheux.alain](#) on Thu, 13 Sep 2012 07:20:39 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Le mercredi 12 septembre 2012 23:24:05 UTC+2, David Fanning a écrit :

> Chris Torrence writes:

```
>
>
>
>> Does this help?
>
>
>>
>
>> googleImage = Read_Image('googleimg.png')
>
>>
>
>> XRange = [-11711131d, -11688226d] ; (meters)
>
>> YRange = [4914254d, 4937159.5d] ; (meters)
>
>>
>
>> im = IMAGE(googleImage, /BOX_AXES, GRID_UNITS='meters', $
>
>> IMAGE_LOCATION=[xrange[0],yrange[0]], $
>
>> IMAGE_DIMENSIONS=[xrange[1]-xrange[0],yrange[1]-yrange[0]], $
>
>> MAP_PROJECTION='Mercator', ELLIPSOID='WGS84')
>
>> m = im.mapprojection
>
>> lonlat = m.MapInverse(im.xrange, im.yrange)
>
>> m.limit = [lonlat[[1,0,3,2]]]
>
>>
>
>> At least with IDL 8.2.1, I'm getting an image in "meters", with a box grid. When I click on the
image, and then move the mouse, it reports lat/lon position.
>
>
>
> Well, the last step has the effect of blurring the image, I think
>
> because it causes the image to be warped into the map projection
>
```

> space. To avoid blurring, you have to separate the display of  
>  
> the image from the map projection. Basically, you want to lay  
>  
> the map projection down "on top" of the image.  
>  
>  
>  
> See the end of this article for a further explanation:  
>  
>  
>  
> [http://www.idlcoyote.com/ng\\_tips/mapnogrid.php](http://www.idlcoyote.com/ng_tips/mapnogrid.php)  
>  
>  
>  
>  
> Cheers,  
>  
>  
>  
> David  
>  
>  
>  
>  
>  
> --  
>  
> David Fanning, Ph.D.  
>  
> Fanning Software Consulting, Inc.  
>  
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>  
>  
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

For those who might be interested, my equation:

res = ((m.a + 135)\*2\*dpi)/256/2^zoom

---