
Subject: Re: Display and Navigate Image in IDL 8.2
Posted by [David Fanning](#) on Wed, 05 Sep 2012 14:02:05 GMT
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Folks,

I have learned a little more about this problem this morning. It's all complicated when nothing shows up in your graphics window! ;-)

Let me go through it again.

Here is the code that obtains a map projected image:

```
googleStr = "http://maps.googleapis.com/maps/api/staticmap?" + $  
  "center=40.6000,-105.1000&zoom=12&size=600x600" + $  
  "&maptype=terrain&sensor=false&format=png32"  
netObject = Obj_New('IDLnetURL')  
void = netObject -> Get(URL=googleStr, FILENAME="googleimg.png")  
Obj_Destroy, netObject  
googleImage = Read_Image('googleimg.png')
```

Here are the details about the image (note Google uses a center latitude and longitude of 0 to calculate the map ranges):

```
projection = "mercator"  
ellipsoid = "WGS84"  
centerLat = 0.0  
centerLon = 0.0  
limit = [-84.7500, -180.000, 84.7500, 180.000]  
xrange = [-11711131.0D, -11688226.0D]  
yrange = [4914254.0D, 4937159.5D]
```

Here is the code that gives me a blank window and which I am trying to fix:

```
obj = Image(googleImage, MAP_PROJECTION=projection, $  
  ELLIPSOID=ellipsoid, GRID_UNITS=1, $  
  CENTER_LONGITUDE=centerLon, CENTER_LATITUDE=centerLat, $  
  LIMIT=limit, X RANGE=xrange, Y RANGE=xrange, $  
  DIMENSIONS=[700,700], LOCATION=[50,50], /BOX_AXES)
```

Here is Coyote Graphics code that results in what I expect to see:

```
cgDisplay, 700, 700  
map = obj_new('cgMap', projection, ELLIPSOID=ellipsoid, $  
  CENTER_LONGITUDE=centerLon, CENTER_LATITUDE=centerLat, $
```

```
LIMIT=limit, XRange=xrange, YRange=yrange)
cgImage, googleImage, Margin=1.0, OPosition=pos
map -> SetProperty, POSITION=pos
cgMap_Grid, /Box_Axes, MAP=map
```

And here is a PNG file of what I am trying to see in Function Graphics:

<http://www.idlcoyote.com/misc/googlemap.png>

I've been working on this for hours, so any help at all gratefully accepted. :-)

Cheers,

David

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
