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Subject: Re: Basic cgMap and cgMapPlotS tutorial  
Posted by [Brian Daniel](#) on Wed, 19 Sep 2012 19:36:25 GMT  
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On Monday, September 17, 2012 1:26:32 PM UTC-4, Brian J. Daniel wrote:

> I've never worked much with maps in IDL, so now that I need to, I thought I'd start with the Coyote tools. From the documentation, the cgMapPlotS object seems like exactly what I need, which is to plot specific lat/lons onto a map with continents or other shapefiles on top.

>

>

>

> Here's my code:

>

>

>

> center\_lat = 36.099510

>

> center\_lon = -5.3362050

>

> latXRange = [35.905270, 36.171590]

>

> lonYRange = [-5.6205900, -5.0512100]

>

>

>

> ; Create cgMap object

>

> oMap = Obj\_New('cgMap', 'UTM', /LatLon\_Ranges, \$

>

> Center\_Latitude=center\_lat,Center\_Longitude=center\_lon,\$

>

> XRange=latXRange,YRange=lonYRange, /Window,\$

>

> Position=[0.05,0.95,0.05,0.95],Title='cgMap Test',Land\_Color='brown')

>

>

>

> print, latXRange, lonYRange

>

>

>

> The above code prints:

>

> 4669305.1 4713144.8

>

> -801136.78 -722963.25

>

>

```
>  
> So latRange and lonRange's values were changed, I'm assuming to be in units of meters.  
center_lat/lon values are unchanged. Then, I attempt to create a cgMapPlotS object to plot the  
center_lat and center_lon position with a symbol:  
>  
>  
>  
> oMapPlotS = Obj_New('cgMapPlotS', oMap, color='red', Lats=center_lat, Lons=center_lon,  
PSym=1 )  
>  
>  
>  
> I get the following error:  
>  
>  
>  
> CGMAPPLOTS::INIT--> CGCONTAINER::INIT: Incorrect number of arguments.  
>  
>  
>  
> The only argument asked of cgMapPlotS is that of a cgMap object, which I provided. What am  
I missing?  
>  
>  
>  
> Thanks in advance!  
>  
> -Brian
```

Whew! I thought I was going crazy. Thanks for the update.

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