
Subject: Re: Point within country boundary
Posted by [David Fanning](#) on Fri, 24 Jan 2014 19:08:20 GMT
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Matt writes:

> I'm trying to find out which countries a set of points fall within. I thought I could do this using the supplied map shapefiles and IDLanROI. However, when I try this:

```
>  
> country_path = "/usr/local/exelis/idl/resource/maps/shape/country.shp"  
>  
> oSHP = OBJ_NEW('IDLffShape', country_path )  
> ent1 = oSHP -> GetEntity( 34, /ATTRIBUTES ) ;USA  
> OBJ_DESTROY, oSHP  
>  
> oROI = OBJ_NEW('IDLanROI', (*ent1.vertices))  
> test = oROI -> ContainsPoints([-100.], [35.])  
> OBJ_DESTROY, oROI  
>  
> print, test  
>  
> ... I get 0, whereas I'm pretty sure -100E, 35W should be within the USA.  
>  
> Am I misunderstanding how these objects or shape files should be used?  
>  
> Thanks in advance for any pointers,
```

It is a little more complicated than that. :-)

When I extract the USA shape from that file with `cgExtractShape`, I get back an `IDLanROIGroup` object that contains 59 separate `IDLanROI` objects. You are probably not looking in the right one. ;-)

http://www.idlcoyote.com/code_tips/extractpoly.php

Cheers,

David

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

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