Subject: Transparent Polygon Shapes Displayed on a Map
Posted by David Fanning on Sun, 01 Dec 2013 19:18:01 GMT

David Fanning writes:

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> I wanted to put this on a Google map so I could make sure it was located
> correctly, so then it was simply a matter of converting these Transverse
> Mercator coordinates, using the GRS 1980 datum, into the Google Mercator
> coordinates, with the WGS84 datum, of the Google map:
>
>   roi = cgExtractShape(shapefile, 'LAYER', 'RICHELIEU')
>   roi -> GetProperty, DATA=xy
>   ll = Map_Proj_Inverse(xy[0,*], xy[1,*], MAP=utmmap->GetMapStruct())
>   xy = Map_Proj_Forward(ll[0,*], ll[1,*], MAP=googlemap->GetMapStruct())
>   roi -> SetProperty, DATA=xy
>   cgDraw_ROI, roi, /Outline, Color='red', Thick=4
>
> Wahla! Perfect. :-)
```

I learned a lot (and had to update some software!) from this experience.
You can find an article about how I went about displaying a transparent
polygon shape from a shapefile on a map in this article:

  http://www.idlcoyote.com/map_tips/transpoly.php

I spent about 15 hours of my time over the past four days figuring this
out and writing an article about it. No one pays me to do this. I do it
because I like to. In the last 10 years I have probably put in 20 hours
a week supporting IDL users here, through e-mail, and on my web page at
no charge to anyone. But, this kind of support for IDL users will be
coming to an end by the end of this year unless I can find some way to
keep doing it.

If this matters to you, if you use the Coyote Library, if you appreciate
the articles on this web page, if I have answered your questions though
e-mail, then I encourage you to take a moment and show your support by
making a donation to this work. I am coming to the reluctant conclusion
that what I do with IDL has no economic value. If this is true, then I
have to find something else to do, and quickly.

A donation in whatever amount you can afford and consider reasonable
will be gratefully appreciated. I love to do this work. It really is the
only thing I have ever wanted to do. I hope it is valuable to you, too.
You can make a donation here if you wish to do so:

  http://www.idlcoyote.com/coyotestore/index.php?main_page=ind ex&cPath=67

Cheers,

David
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David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")