
Subject: Intersecting Polygons and results

Posted by [KRDDean](#) on Tue, 01 Feb 2011 16:47:35 GMT

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I would like to be able to create a polygon from the intersection between two polygons, as well as save the remaining area of polygons that do not fall into the intersections. There is some code below attempting to perform the intersection between the two polygons.

I am having a programmer block trying to solve this. Any thoughts or suggestions would be helpful.

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Sample code using IDLanROI ...

PRO ROIclip

```
shape1 = FLTarr(2,17)
shape1 [*,0] = [116.44991,41.441910]
shape1 [*,1] = [116.57357,41.374821]
shape1 [*,2] = [116.64723,41.312994]
shape1 [*,3] = [116.57488,41.002544]
shape1 [*,4] = [116.36967,40.928878]
shape1 [*,5] = [116.16840,40.984128]
shape1 [*,6] = [116.21576,41.053847]
shape1 [*,7] = [116.06185,41.099889]
shape1 [*,8] = [116.10263,41.168293]
shape1 [*,9] = [116.13683,41.214334]
shape1 [*,10] = [116.16577,41.264322]
shape1 [*,11] = [116.18156,41.319572]
shape1 [*,12] = [116.22891,41.344565]
shape1 [*,13] = [116.31442,41.357720]
shape1 [*,14] = [116.29337,41.387976]
shape1 [*,15] = [116.34468,41.422178]
shape1 [*,16] = [116.44991,41.441910]
shape2 = FLTarr(2,6)
shape2 [*,0] = [116.21839,41.528731]
shape2 [*,1] = [116.61698,41.524784]
shape2 [*,2] = [116.72748,41.141984]
shape2 [*,3] = [116.30916,41.203810]
shape2 [*,4] = [116.13552,41.289316]
shape2 [*,5] = [116.21839,41.528731]
xrange = [116.06185 ,116.72748]
yrange = [40.928879 ,41.528732]
PLOT, shape1[0,*], shape1[1,*], $
    xrange = xrange , yrange = yrange, $
```

```
        linestyle=3OPLOT, shape2[0,*], shape2[1,*], linestyle = 2
oROI = OBJ_NEW('IDLAnROI', shape2 )
pttest = oROI -> ContainsPoints( shape1 )
oROI -> GetProperty, DATA = data
OBJ_DESTROY, oROI
indx = WHERE( pttest GT 0 )
x = shape1[0,indx]
y = shape1[1,indx]
OPLOT, x, y, linestyle = 0
```

END
