Subject: Intersecting Polygons and results
Posted by KRDean 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 interesect
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
```