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Subject: Re: Finding a points inside polygon

Posted by [Pavel A. Romashkin](#) on Thu, 24 Oct 2002 21:06:37 GMT

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I plotted the polygon and the point as you specify. It looks to me that the point does lie outside the polygon, some 0.0001x and 0.001y to the right and below the border, to be exact. Check the coordinates, make sure the floating point precision does not play a joke on you.

David's INSIDE returns zero also.

Make sure your polygon is closed:

```
vx = [vx, vx[0]]
```

```
vy = [vy, vy[0]]
```

```
IDL> print, inside(x, y, vx, vy)
```

```
0
```

So I suspect that there is nothing wrong with the ROI object in this case.

Good luck,

Pavel

Gunho Sohn wrote:

>

> polygon vertices (vx,vy):

> vx=[35.859278 55.591451 155.00000 155.00000]

> vy=[0.00000000 0.00000000 19.279154 23.105984]

>

> point (x,y):

> x=122.87897 y=13.049367

>

> When I simply coded this as follows, it prints as 0 which means this point

> is located outside of polygon. But, it is not!

> o\_poly=obj\_new('IDLanROI', vx,vy)

> print, o\_poly->ContainsPoints(x,y)

>

> I compared this using fanning's inside.pro, as I expected 'inside.pro' said

> this point is in the polygon.

>

> Do I something wrong using IDLanROI object?

>

> I hope to hear anything from you soon.

>

> Many thanks,

>

> Gunho

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