Subject: Re: pollyfillv, area of a blob, etc...
Posted by JP on Thu, 03 Apr 2008 06:38:44 GMT
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It's me again...

by the way, I would be happy if at least I could calculate the centroid of each polygon and then get the array index for each centroid.

But I don't know how to calculate the centroid (Coyote's procedure CENTROID works with an array, not with a polygon).

And if I had the centroid, how do I easily get the array index?

thanks again.

JP

Subject: Re: pollyfillv, area of a blob, etc...
Posted by David Fanning on Thu, 03 Apr 2008 14:16:33 GMT
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JP writes:

> by the way, I would be happy if at least I could calculate the
> centroid of each polygon and then get the array index for each
> centroid.

I suppose the centroid of the polygon is the average value of it vertices, or maybe the mean if you didn't want to overbias outliers. In your case, you could probably just pick a vertex and be pretty darn close to it. :-)

> But I don't know how to calculate the centroid (Coyote's procedure
> CENTROID works with an array, not with a polygon).
>
> And if I had the centroid, how do I easily get the array index?

ROUND would probably work. :-)

Or, if you polygons were in some other coordinate system, you will have to convert from that system to device coordinates. CONVERT_COORD will be helpful.

Cheers,

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

Subject: Re: pollyfillv, area of a blob, etc...
Posted by JP on Thu, 03 Apr 2008 23:08:07 GMT
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On Apr 4, 1:16 am, David Fanning <n...@dfanning.com> wrote:
> I suppose the centroid of the polygon is the average
> value of it vertices, or maybe the mean if you didn't
> want to overbias outliers.

I guess you meant "the average value of it vertices, or maybe the
MEDIAN" ??

In any case, thank you. I didn't realize that the centroid is just the
mean of the vertices in the two dimensions.
I'll solve my problem that way.

Cheers,

JP
