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Subject: Re: Point inside/outside a polygon?

Posted by [Jim Pendleton](#) on Sat, 11 Aug 2001 00:40:00 GMT

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"Dennis Boccippio" <djboccip@hotmail.com> wrote in message  
news:djboccip-ECCC8D.11144210082001@news.mia.bellsouth.net.. .

> Hi all,

>

> Does anyone know of IDL routines for determination of whether a point  
> datum is inside/outside a closed irregular polygon? I'm told that some  
> variants of this functionality are available in Matlab and Mathematica,  
> was curious if anyone had implemented a solution for IDL. My usual  
> kludge to this is polyfill/mask-based, which is probably a very  
> inefficient approach...

>

> Thanks,

>

> Dennis Boccippio

>

Hi Dennis,

The IDLanROI class has a method named "ContainsPoints" to perform this operation efficiently. It will let you know if a point lies exactly on an edge or vertex, or completely inside or outside the specified polygon. And it's also good in three dimensions. See the IDLanROIGroup class for extended functionality.

Jim P.

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