
Subject: POLYFILLV weirdness

Posted by [dktr.ted](#) on Fri, 17 Nov 2006 03:29:32 GMT

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Hi all,

I've been having problems with POLYFILLV. Consider the case below:

```
IDL> verts = TRANSPOSE([ [ 2, 3.25, 2, 0.75, 2 ], [ 0.75, 2, 3.25, 2,
0.75 ] ])
IDL> dim = [ 6, 6 ]
IDL> inside = POLYFILLV(verts(0,0:3), verts(1,0:3), dim(0), dim(1))
```

Verts defines a diamond of width 2.5, centered at [2, 2], which according to the POLYFILLV documentation should be the center of pixel [2, 2]. The results of the POLYFILLV call should give me 5 pixels, specifically [2, 3], [1, 2], [2, 2], [3, 2], and [2, 1]. However, instead I get 6 pixels, those listed plus [3, 3]. From the POLYFILLV documentation I can't for the life of me figure out how this extra pixel would be regarded as being inside the diamond.

Has anyone else encountered any funny effects at polygon edges when using POLYFILLV? Any advice or commiseration would be much appreciated. Thanks!

Ted
