
Subject: 3D IDLanROI

Posted by [tegu](#)s on Fri, 13 Mar 2009 20:25:35 GMT

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Hi,

I'm having difficulty applying IDLanROI to a set of 3D data. In the past, I have used IDLanROI successfully with 2D data.

Working in 2D with a simple square ROI is OK:

```
IDL> print, verts2D
```

```
1.00000  1.00000
```

```
-1.00000  1.00000
```

```
-1.00000 -1.00000
```

```
1.00000 -1.00000
```

```
IDL> oROI=obj_new('IDLanROI', verts2d)
```

```
IDL> print, oROI->ContainsPoints(verts2D)
```

```
3 3 3 3
```

```
IDL> print, oROI->ContainsPoints([0, 0])
```

```
1
```

```
IDL> print, oROI->ContainsPoints([0, 2])
```

```
0
```

Indicating test point(s) are on vertex (3), interior to ROI (1) and exterior to ROI (0) as I would expect.

Extending this to 3 dimensions and using a simple square pyramid as my ROI:

```
IDL> print, verts3D
```

```
1.00000  1.00000  0.000000
```

```
-1.00000  1.00000  0.000000
```

```
-1.00000 -1.00000  0.000000
```

```
1.00000 -1.00000  0.000000
```

```
0.000000  0.000000  1.00000
```

```
IDL> oROI=obj_new('IDLanROI', verts3d)
```

```
IDL> print, oROI->ContainsPoints(verts3D)
```

```
0 0 0 0 0
```

Which isn't right. What am I doing incorrectly?

Is it the way I have defined the vertices of my pyramid?

Any help would be greatly appreciated.

Thanks,

Bill
