Subject: point inside/outside of 3D object.

Posted by Junum on Tue, 14 Jun 2011 19:01:25 GMT

I want to determine whether a given point is inside or outside of 3D
object.
There have been some suggestions on this discussion group, so I have
tried IDLanROI::ContainsPoints.
It works for 2D case, but not for 3D.
Assuming a tetrahedron,
its coordinates for 4 points are
(1,0,0)
(0,1,0)
(-1,0,0)
(0,0,1)

px = [1., 0., -1., 0.]
py = [0.,1.,0.,0.]
pz = [0.,0.,0.,1.]

object = Obj_New('IDLanROI', px, py, pz)
print,object->containspoints(0.1,0.1,0.1)

It prints 0, Exterior, although (0.1,0.1,0.1) is inside of
tetrahedron.

My questions are
1. I guess that a method defining a tetrahedron is wrong (i.e., px,
py, pz).
   How can I define a 3D object consisting of several plane surfaces
(e.g., cube) in IDLanROI?

2. How can I draw a tetrahedron in 3D graphic?

Could you help me?
Thank you.

Sincerely,
Jun