
Subject: Re: 3d polygon mesh for 3 independent variables x,y,z
Posted by [Guneshwar Thangjam](#) on Thu, 19 Mar 2015 10:20:32 GMT
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On Thursday, 19 March 2015 00:14:28 UTC+1, guni wrote:

> Hi,
> I am a new in IDL. And I need some help.
> I have 3 independent variables. I plotted 3d polygon in MATLAB using 'convhull' and then 'trimesh' procedures. But I have to do in IDL. I already plotted a 3d scatter plot using 'plot3d' and then I go for 'qhull' for the delaunay triangulation. However, I am not able to plot the (bound) polygon mesh in my 3d plot. Or, is this triangulation not the way I should look for?
> If anyone can help how to plot such a 3d-polygon, that will be a nice pleasure.
> Thanks in advance,
> Guni

Here is more in detail.

```
;3 independent variables
x=randomu(seed,100)
y=randomu(seed,100)
z=randomu(seed,100)
;3d scatter plot
p = PLOT3D(x, y, z, 'o' ,/SYM_FILLED,AXIS_STYLE=2,/PERSPECTIVE)
;construct 3d triangulation
qhull,x,y,z,triangle,/delaunay,VDIAGRAM=vdiagram,$
VVERTICES=vvertices,connectivity=connectivity
;?how to plot the polygon using the returned variables from the qhull procedure
```
