
Subject: Re: 3d polygon mesh for 3 independent variables, x,y,z

Posted by [Jeremy Bailin](#) on Thu, 19 Mar 2015 18:35:23 GMT

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On Thursday, March 19, 2015 at 6:23:54 AM UTC-4, 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.  
>  
> -----  
> ;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 qhull procedure  
> ?  
> -----  
>  
> Thanks in advance,  
> Guni
```

Maybe you want to use SURFACE instead?

-Jeremy.
