Subject: Re: 3d polygon mesh for 3 indpendent variables, x,y,z
Posted by Guneshwar Thangjam on Sun, 22 Mar 2015 11:12:27 GMT
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On Thursday, 19 March 2015 19:35:24 UTC+1, Jeremy Bailin wrote:
> 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' precedures. 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 indpendent 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.

Hi Jeremy,
Thanks for the suggestion, but it doesnot create the polygon.
I tried using 'idlgrpolygon', and it draws the polygon, but still I have problems. Anyway, thanks.
Guni