

---

Subject: GRIDDATA - 3D mode

Posted by [antar3s86](#) on Wed, 27 Jun 2012 08:38:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hey

I have tried to get a specific result from griddata but I just can't figure it out...

First of all I want to do nearest neighbor search in a cartesian 3D space (so no sphere!). and instead of actually returning the function value I would like to have the nearest neighbor grid values.

So in 2d this would be something like

```
TRIANGULATE, grid1, grid2, c
```

```
fnn = GRIDDATA(grid1,grid2,f,XOUT=x,YOUT=y, /NEAREST_N, TRIANGLES=c)
```

where then fnn is the value of f at the nearest neighbor of (x/y) in the grid (grid1,grid2). Is it here possible to actually return the XOUT and YOUT values, so the nearest neighbor, and is this also possible if I have a third coordinate (grid3 and z)...?

I hope you can help

cheers

---