
Subject: Re: speher keyword of qhull

Posted by [Andy Heaps](#) on Thu, 09 Nov 2006 15:23:22 GMT

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ITT-Vis help desk have resolved the query:

The SPHERE keyword to QHULL will return the Delaunay triangulation of the points which lie on the surface of a sphere. Consider the following example:

```
.*****  
,  
> pro test  
>  
>   seed = 1  
>   n = 50  
>  
>   lon = randomu(seed, n) * 360. - 180.  
>   lat = randomu(seed, n) * 180. - 90.  
>   f = sin(lon * !dtr)^2 * cos(lat * !dtr)  
>  
>   qhull, lon, lat, qtr, $  
>     SPHERE = q_sphere, /DELAUNAY  
>  
>   qpolys = lonarr(4,(size(qtr, /DIM))[1])  
>   qpolys[0,*] = 3  
>   qpolys[1:3,*] = qtr  
>  
>   q_poly = obj_new('idlgrpolygon', $  
>     q_sphere, COLOR = [0,255,0], $  
>     POLYGONS = qpolys, STYLE = 2)  
>  
>   xobjview, q_poly, XSIZE = 400, YSIZE = 400, $  
>     XOFF = 410, YOFF = 450, $  
>     TITLE = 'QHULL triangulation'  
>  
> end  
> .*****
```
