Subject: Re: how to define theta and phi of a sphere in IDL Posted by penteado on Sun, 15 Nov 2009 06:20:47 GMT

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On Nov 15, 3:33 am, nisha katyal <nishahans...@gmail.com> wrote:

- > No, actually i do not want to define it that way. I want to define
- > x,y,z cordinates in terms of r,theta,phi. i.e
- > x=r*sin(theta)cos(phi)
- > y=r*cos(theta)sin(phi)
- > z=r*cos(theta)

>

> I don not kno the difference in defining theta and phi....

Don't you mean y=r*sin(theta)sin(phi)? If so, theta is the angle from the north pole to the parallel where your point is (90°-latitude), and phi is the longitude. And David was saying that this conversion could be done as

xyz=cv_coord(from_sphere=[phi,!dpi/2d0-theta,r],/to_rect)