
Subject: Re: Already written function to find if a point is within a rectangle?

Posted by [Jacare Omoplata](#) on Fri, 24 Feb 2012 18:48:14 GMT

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On Feb 23, 1:05 pm, Greg Hennessy <greg.henne...@cox.net> wrote:

>>> I'm thinking of making polygons with a large number of edges, instead

>>> of rectangles, with every data point at the edge of a FITS file as a

>>> vertex. That would minimize the projection error, right?

>

>> That helps. Special care is probably need around the poles though.

>

> It often helps to convert from ra/dec to unit vectors

> ([cos(ra)*cos(dec),sin(ra)*cos(dec),sin(dec)]) for both

> the star position and the edges of the polygon.

That's brilliant idea!

I'm not going to bother with it for this problem, since I've already half written the program, and the images are not near the poles or the longitude boundary. I will definitely use it in the future though.

Thanks.
