Subject: Re: Already written function to find if a point is within a rectangle? Posted by Craig Markwardt on Thu, 23 Feb 2012 09:34:31 GMT

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On Feb 22, 10:25 pm, Jacare Omoplata <walkeystal...@gmail.com> wrote: >>>> So I need a way to find out if a point (position of a star) is >>>> within a rectangle (image boundary). The rectangle edges are not >>> strictly horizontal or vertical. >>> You talk about coordinates in RA and dec. So are the images really >>> rectangular? It seems to me that the real problem is that you need to >>> deal with spherical geometry. > >> Not only that, but an "image boundary" will be projection-dependent >> [*]. For small images it probably won't matter much, but there will >> always be an edge case that gets you later. > 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.

Craig