Subject: Re: Already written function to find if a point is within a rectangle?
Posted by Jacare Omoplata on Thu, 23 Feb 2012 03:25:52 GMT

View Forum Message <> Reply to Message

>>> 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?

Thanks