Subject: Re: Is there a quick way to find the intersection of two lines?
Posted by ben.bighair on Tue, 05 Feb 2008 00:33:39 GMT
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On Feb 4, 7:08 pm, eyuc...@gmail.com wrote:
> Hi there,
>
> I have two sets of x-y data:
> x1=[1,2,3,4,5] y1=[3.2,7.4,8.2,9.3,7.9];
> x2=[1.2,1.4,2.3,2.8,3.3,3.9,4.1,4.5,5.2]
> y2=[3.1,5.2,6.2,7.3,7.5,8.6,9.6,8.7,7.4];
>
> By running:
> plot, x1, y1
> oplot, x2, y2
> we can clearly see that there are four intersections, but it is not
> clear what are the x,y coordinates of these points.
>
> Is there an easy way to do it? Thank you very much.
>

Hi,

You might want to check out Paul Bourke's great online tidbits about geometry.

http://local.wasp.uwa.edu.au/~pbourke/geometry/

I have been chipping away at coding some of the algorithms he describes into IDL, but have been easily sidetracked. You're welcome to use what I have (mostly documented) as a starting point. My implementations come with zero warranty...

www.tidewater.net/~pemaquid/pb.zip

Cheers,
Ben