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Subject: Re: Creating an ordered 'blob' ROI from a messy 'criss-crossed' ROI....

Posted by [James Preiss](#) on Fri, 06 May 2011 03:35:37 GMT

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On May 5, 11:45 am, George Millward <george.millw...@noaa.gov> wrote:

> Hi there,  
>  
> I'm working on a project which involves creating several ROIs on a  
> number of images. The functionality is based  
> on xROI.pro (but diverged from there a long time ago).  
>  
> Anyhow, what I want to achieve is for the program operator to be able  
> to define an ROI by shift-clicking to create  
> a number of points in [x,y]. Fine, I have this - but for the ROI code  
> to work, the operator must click in an 'ordered manner' around the  
> edge (ie, progressing either clockwise or anticlockwise around the  
> ROI). For the program to be truly 'bomb proof' I need to build it  
> such that if an operator clicks around the ROI in a 'non-ordered'  
> fashion - then the resulting 'criss-crossed' ROI can be re-interpreted  
> as a single ordered solid ROI.  
>  
> Does this make sense ? Considering that ROIs in general are such a  
> big deal in IDL this issue/dilemma must have been addressed  
> before.....  
>  
> I guess simply my question can be rephrased as "How do I convert a  
> messy 'criss-crossed' ROI into a consistent 'blob' ROI".  
>  
> Any help, as ever, much appreciated.  
>  
> Cheers  
>  
> George.

There is no general way to solve this problem unless you put some constraints on allowable region shapes. For example, see the image I just made at <http://imgur.com/NqlxG> . If you only allowed convex ROIs, then you could take the convex hull of the points, but I doubt you want that restriction. I can't think of any elegant solutions - you'd be better of demanding that your users click in order.

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