Subject: Re: Line index

Posted by David Foster on Fri, 22 Mar 1996 08:00:00 GMT

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Hermann Mannstein < H.Mannstein@dlr.de> wrote:

>

- > Hello,
- > is there a robust function which returns the indices within an image
- > (like the where function)
- > belonging to a line defined by two or more points.

I don't have a function, but I can suggest a possible solution. Given your two points, if you use the familiar Y = mX + B formula to calculate the (X,Y) coordinate pairs for either each X or for each Y along the "span" of the line (use the one that gives you more points), and then convert these pairs to one-dimensional indices using the formula

where the "image" is Xdim x Ydim. Obviously you'll have to do some checking to make sure the points are within the image.

Hope this is useful.

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