
Subject: Efficient finding of locations where two 'on' pixels are next to one another
Posted by [Robin Wilson](#) on Thu, 13 Jan 2011 17:28:47 GMT

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Hi,

I'm working with a binary image which is the output of another procedure I've run. I am trying to write a routine to post-process this image, and clean it up a bit. As part of this, I want to find the indices of pixels that are set to 1 (ie. 'on') that are next to other pixels that are set to 1, but only in the X direction. To make that a bit clearer, there is a diagram below:

```
(0) . . . * * . .  
(1) . . . * . . .  
(2) . . * * * . .  
(3) . . . * . . .  
(4) . . . * . . .
```

In this example I would want the indices of both 'on' pixels in Row 0, nothing in Row 1 (as the pixel is not touching anything in the X direction), all three in Row 2, and nothing in Rows 3 and 4.

At the moment all I can think of some kind of ghastly FOR loop with loads of state-checking. I'm thinking that there must be a nicer (that is more efficient and cleaner code) way...is there?

Cheers again,

Robin
