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Subject: x-y offsets

Posted by [Gray](#) on Tue, 18 May 2010 20:29:18 GMT

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Hi all,

This is a variation on the 2D matching problem that I'm having trouble algorithm-ing (to coin an incredibly awkward word).

I have two sets of XY coordinates of unequal length (i.e.,  $x_1/y_1/n_1$ ,  $x_2/y_2/n_2$ ,  $n_1 \neq n_2$ ). I want to find offsets in both X and Y that match the two sets as closely as possible (there will obviously be some unmatched coordinates in the larger set). I'm just looking for constant offsets, so basically (for  $n_1 < n_2$ )  $x_1 + C_x \rightarrow x_2$ ,  $y_1 + C_y \rightarrow y_2$ , with some elements of  $x_2$  and  $y_2$  being unmatched. How do I go about doing this? I don't think I can use JD's MATCH\_2D because I don't know a priori what my matching radius is.

Any suggestions? Thanks, as always!

--Gray

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