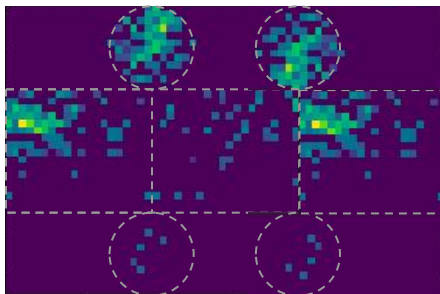
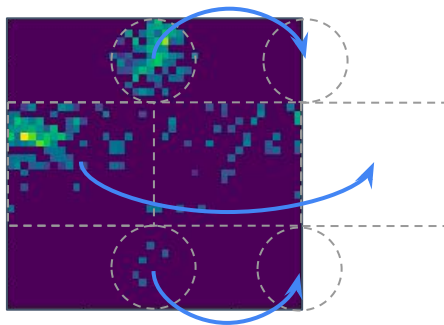


Current:

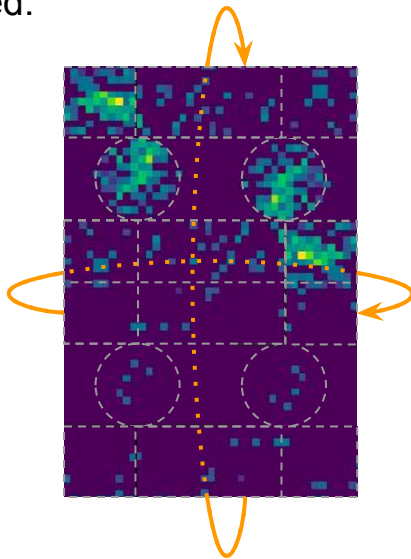
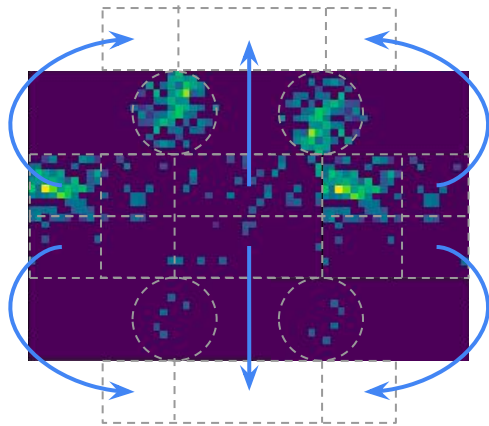


End caps appear twice
Half of barrel appears twice
Half of barrel appears once

No cyclic boundary conditions

Extra blank space in corners of image

Proposed:



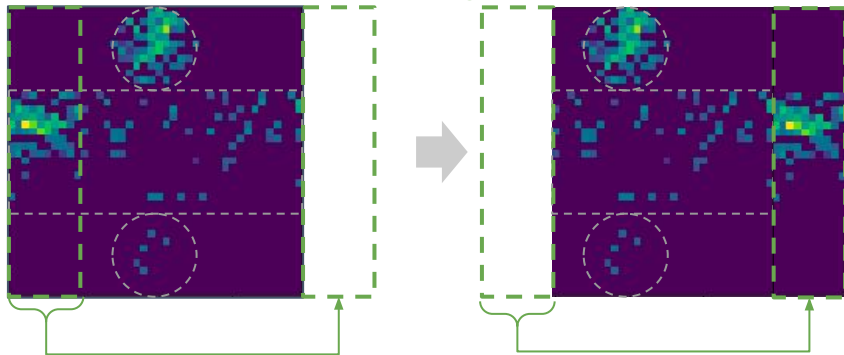
All segments appear exactly twice

Cyclic boundary conditions in both directions

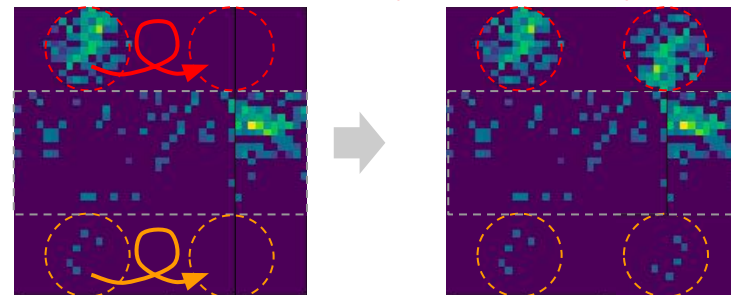
Minimal blank space

Odd number of rows (9) in barrel
so have to split it asymmetrically
Cyclic boundary conditions should help
if properly implemented?

1) 'Roll' the image to shift part of the left round to the right hand side



2) copy both end-caps, rotated 180 degrees (ie flipped horizontally and vertically)



3) pad the top and bottom of the image with a copy of each half of the barrel rotated 180 degrees (i.e. flipped horizontally and vertically)

