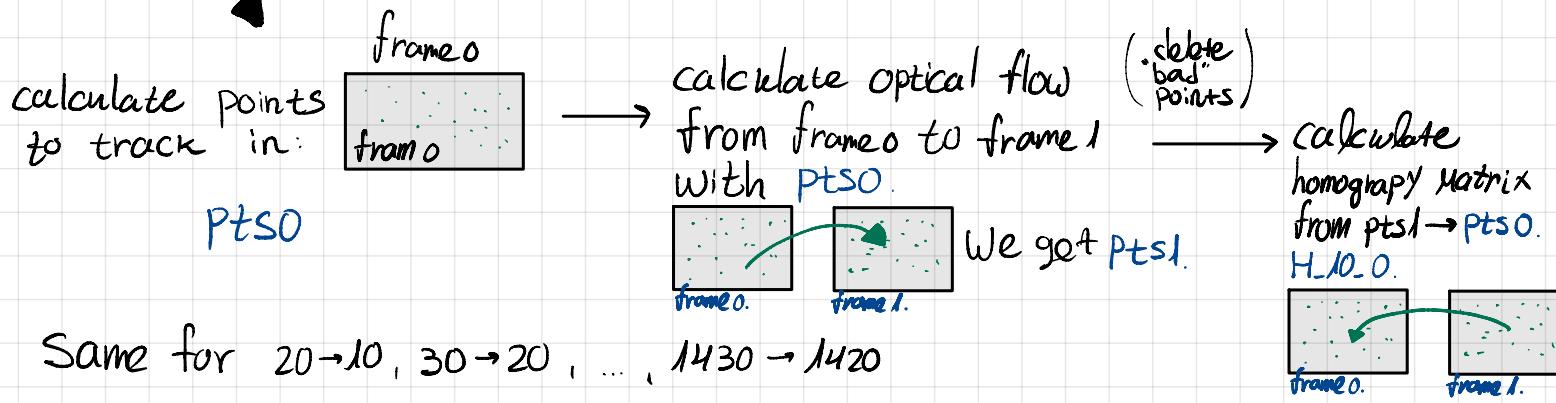
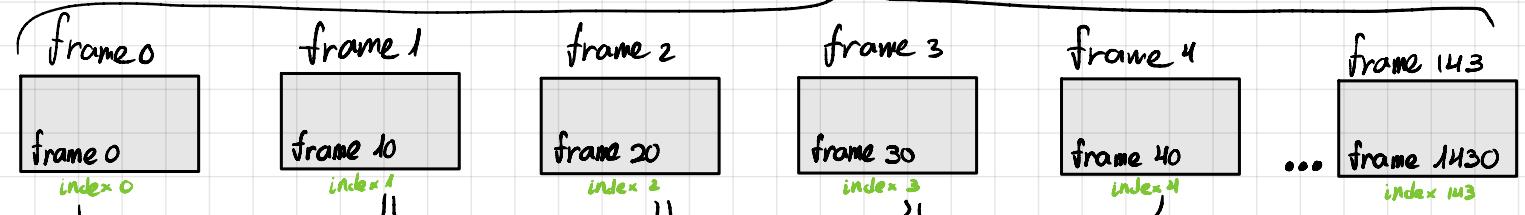
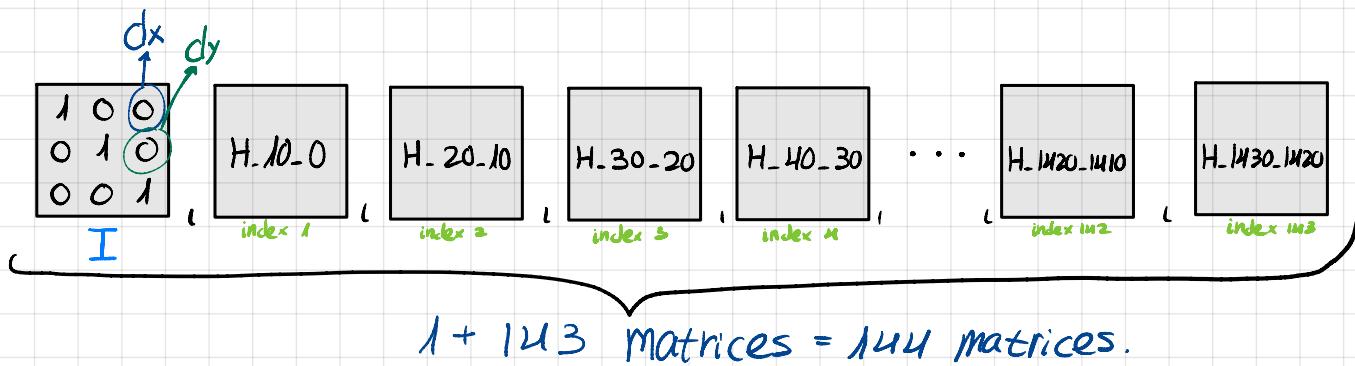


# Create Panorama from Video:

144 FRAMES



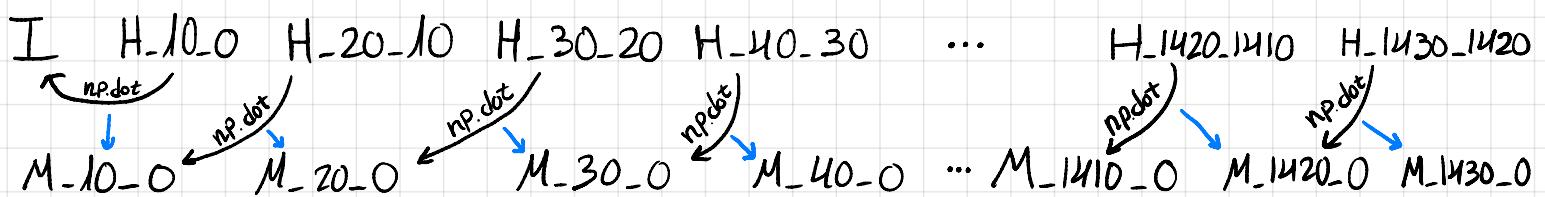
now we have a list with matrices from frame  $i \rightarrow i-10$ .



$I$  matrix for moving the frame to bottom middle.

Calculate  $M_{i \rightarrow 0}$ : Transformation matrix from frame  $i$  to frame 0

Create list frames-to-first = []



$M_{10-0}$  : Move frame 0 bottom middle. index 0

$M_{20-0}$  : Move frame 20 to frame 0. index 1

...

$M_{1420-0}$  : move frame 1420 to frame 0. index 141

$M_{1430-0}$  : move frame 1430 to frame 0. index 142

143 matrices.