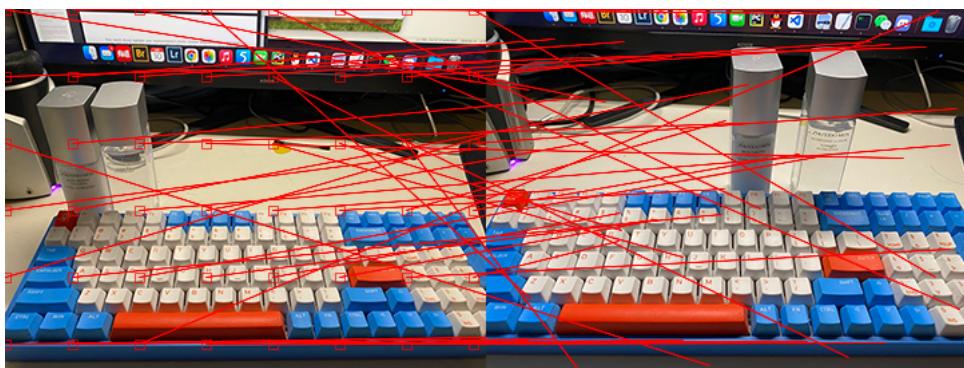
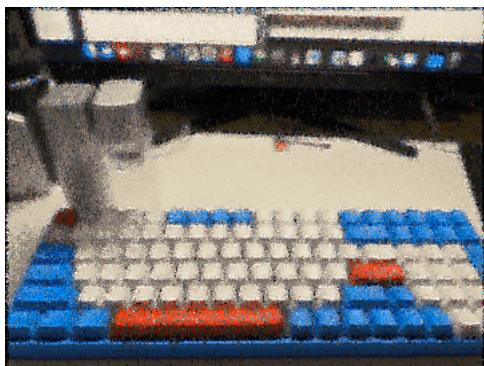


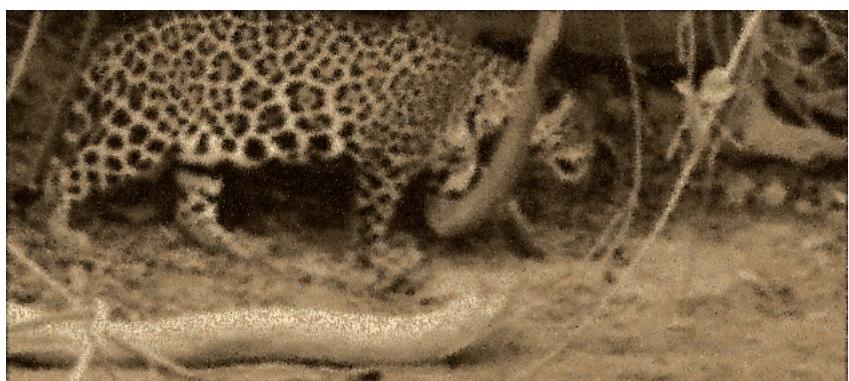
# A4 report sunxia54



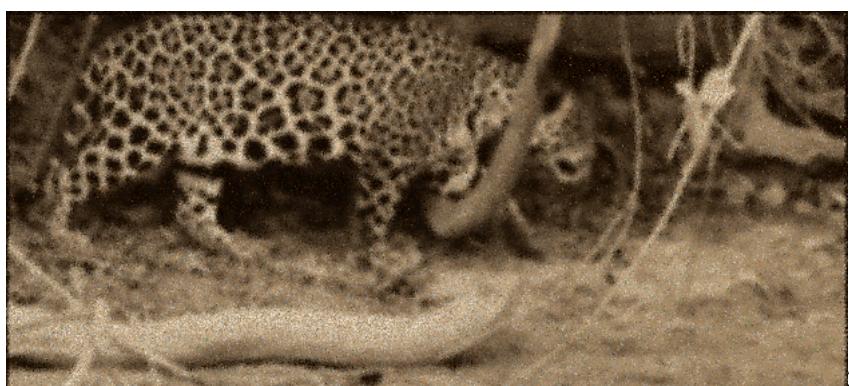
The first set of pics shows the 2 moved bottles and we can clearly see that the algorithm successfully figured out the movement of the bottles and get the right nearest neighbor field.



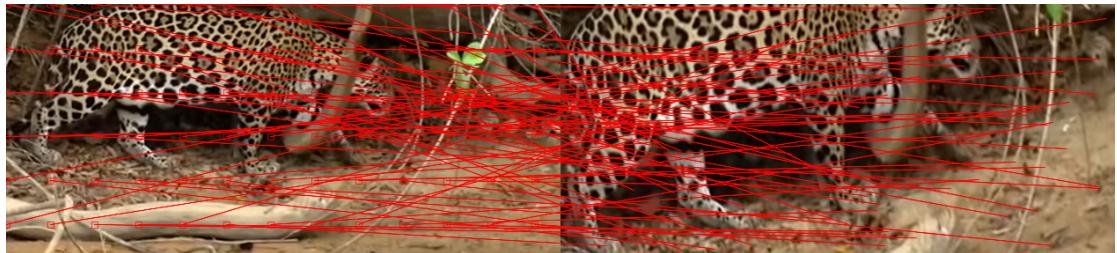
1



2

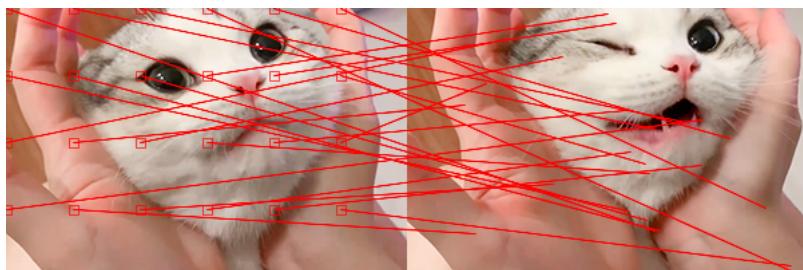


3



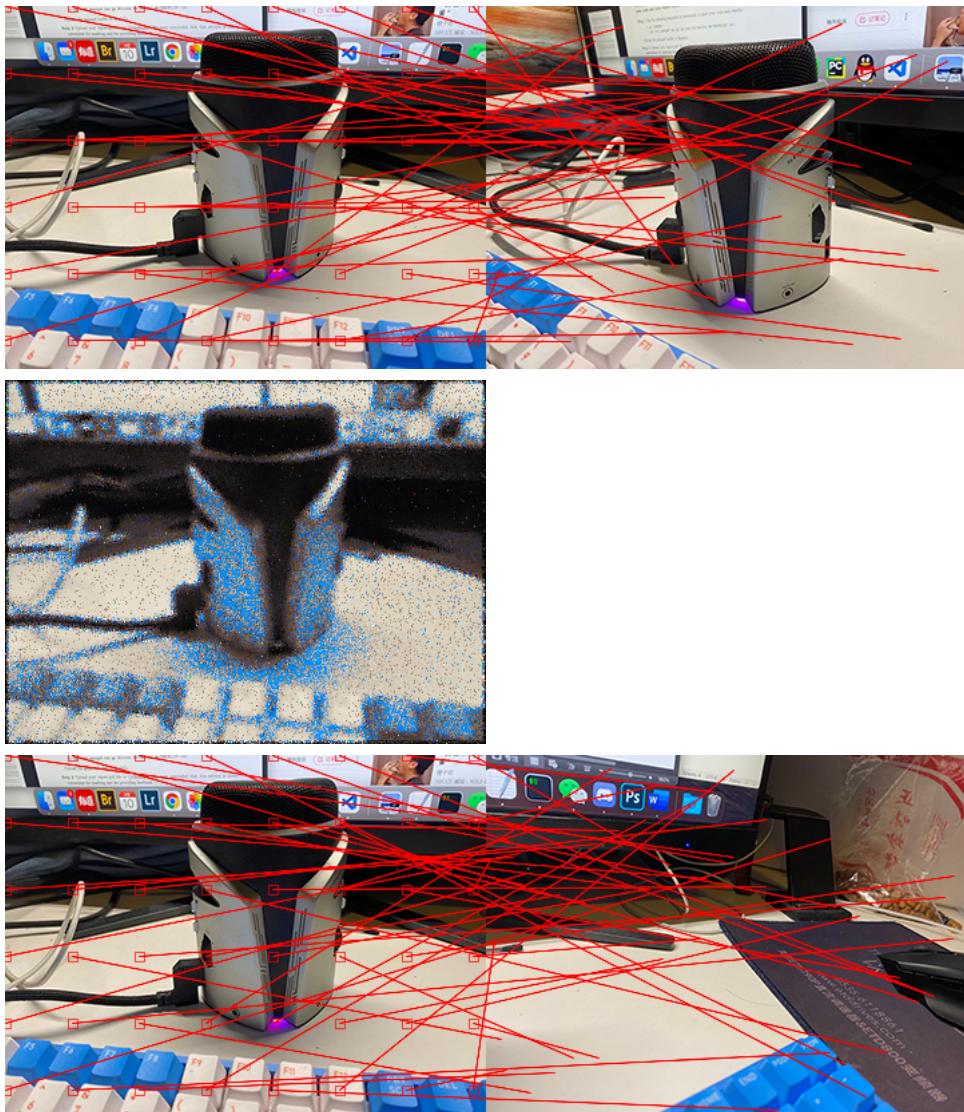
From jaguar1 2 3 we find that the difference between source and target seems not to influence patch match much.

For the set of jaguar, the body of the jaguar is figured out successfully, even the stick, but there is a problem that the green pixels of the leaves looks strange



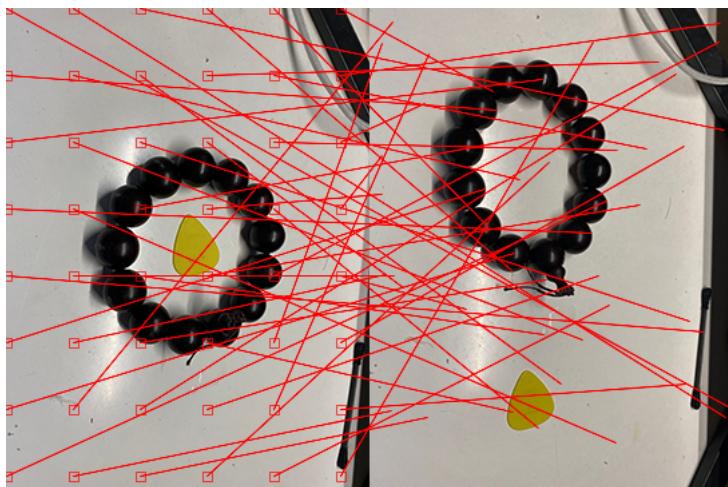
The third set comes from two frames of a video, we can see the patch search on the cat' s face has little problems. Mainly because there are server patches with high similarity on the cat' s face(white fur).





This set of pictures are about slightly different viewpoints. We can see this time, the little purple light are reconstructed successfully, since the purple color has higher difference in the patch which makes NNFmore accuracy.

But if we move out the main object, it will be hard to reconstruct the source.



For these picture there are not much color in these picture, so the algorism find it difficult to tell the difference between some similar patches, so the high lights on the balls are not reconstructed well.

So we can conclude that it will runs well for pictures with vivid colors and not perform that well with trivial pictures. Also if the source and target has the same main object, the difference between them will not influence that much. However, if the main item is not in the target picture, it will not reconstruct well.