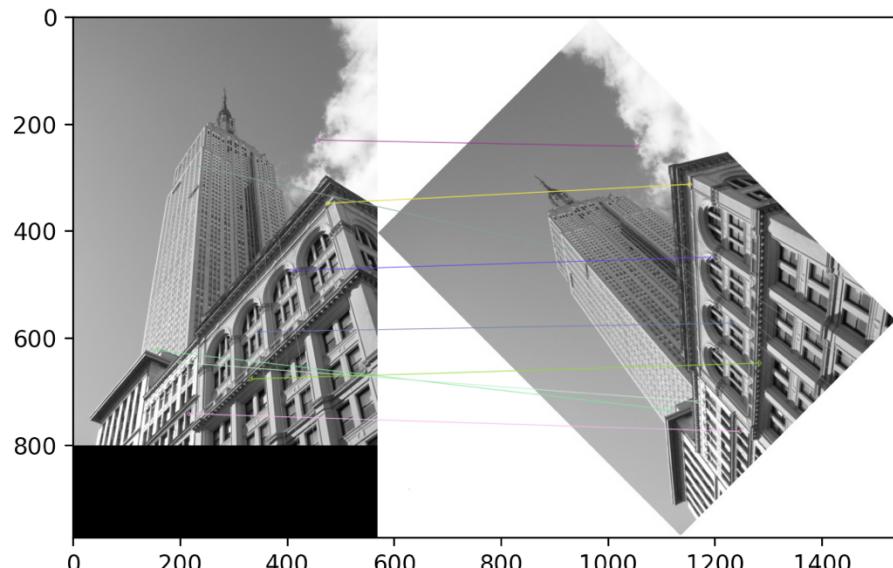


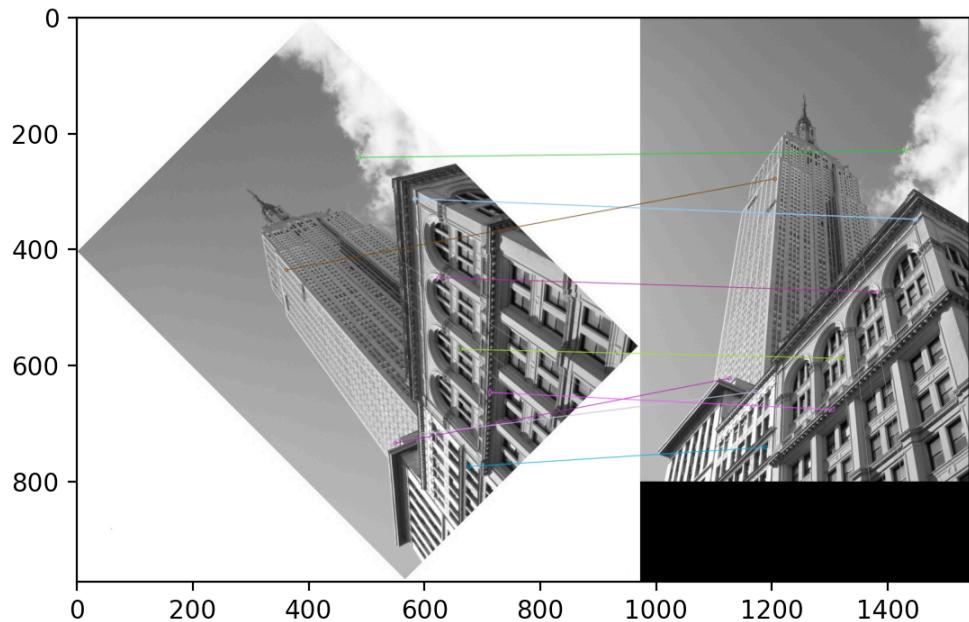
Task 3.2C

Img_gray vs img_gray_45 (10 matches)



Distance between img_gray and img_45_gray is 126.067

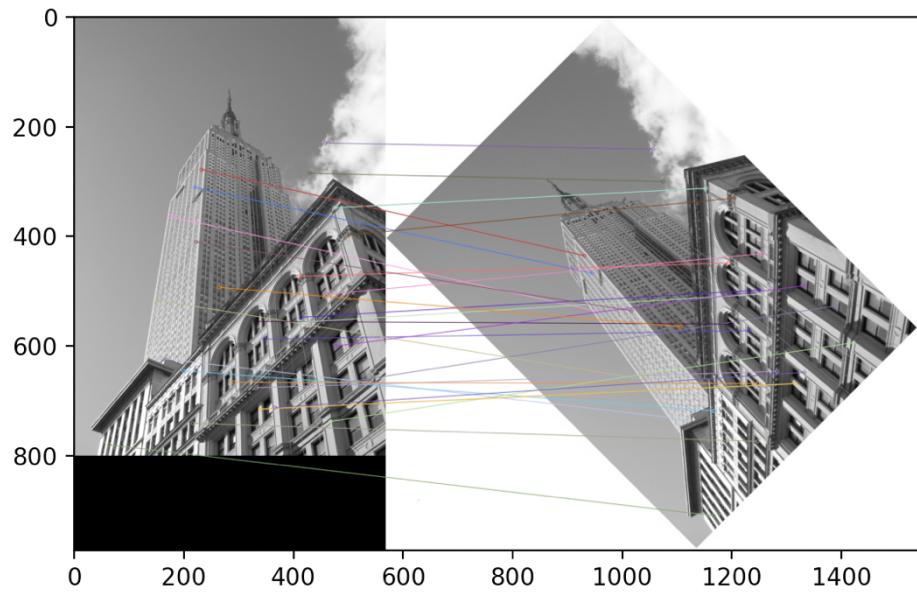
Img_gray_45 vs img_gray (10 matches)



Distance between img_45_gray and img_gray is 126.067

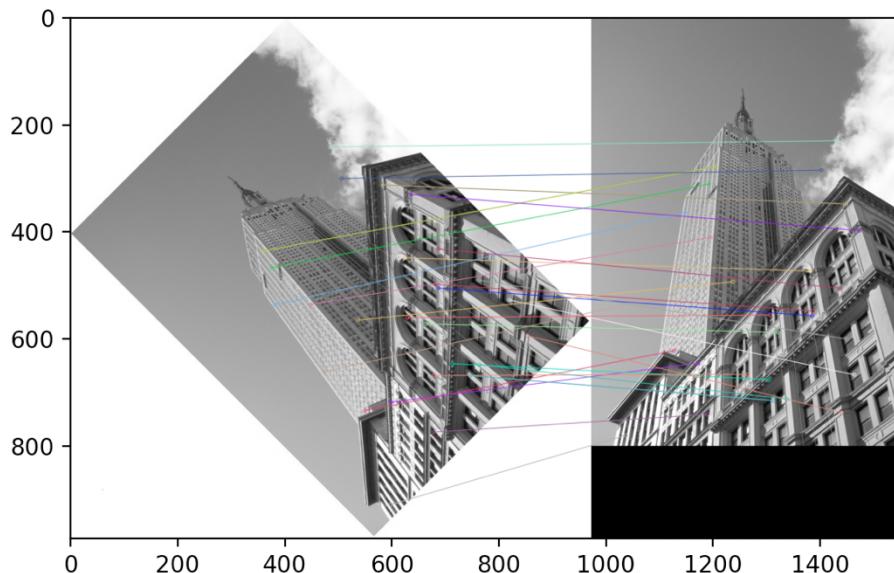
Similarity Distance between img_gray and img_45_gray is 126.067

Img_gray vs img_gray_45 (30 matches)



Distance between img_gray and img_45_gray is 489.587

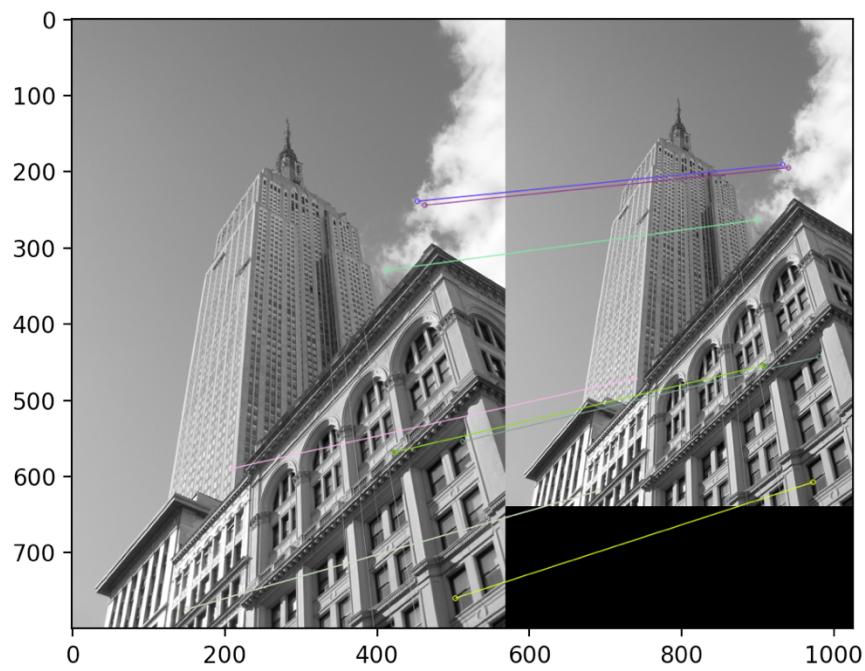
Img_gray_45 vs img_gray (30 matches)



Distance between img_45_gray and img_gray is 489.587

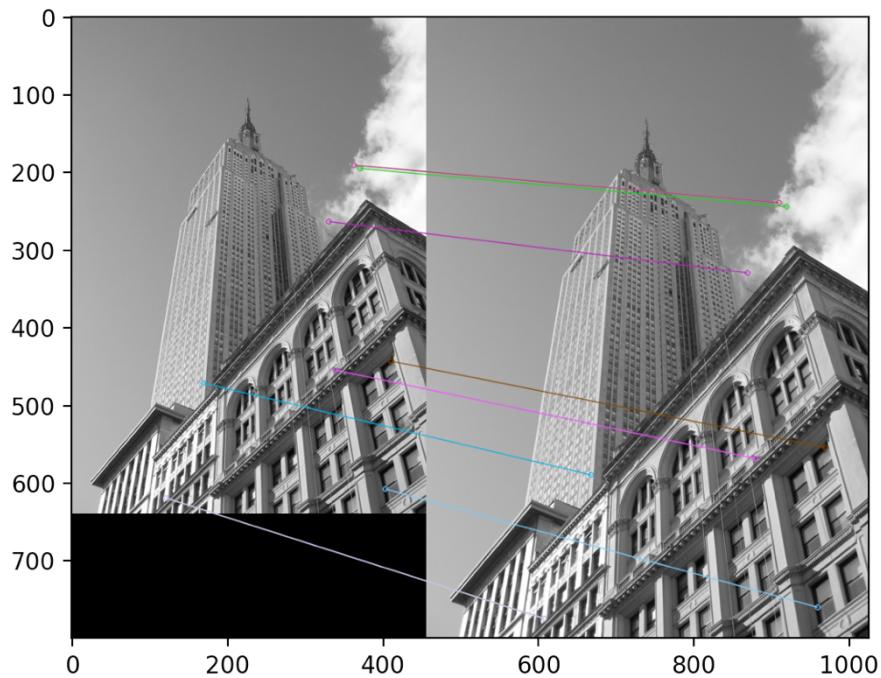
Similarity Distance between img_gray and img_45_gray is 489.587

Img_gray vs img_gray_zoomedout (10 matches)



Distance between img_gray and img_zoomedout_gray is 114.902

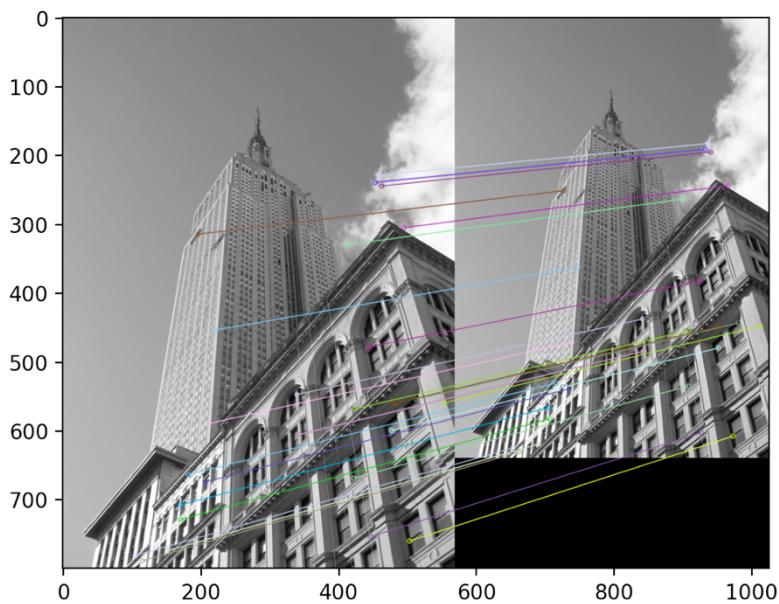
Img_gray_zoomedout vs img_gray (10 matches)



Distance between img_zoomedout_gray and img_gray is 114.902

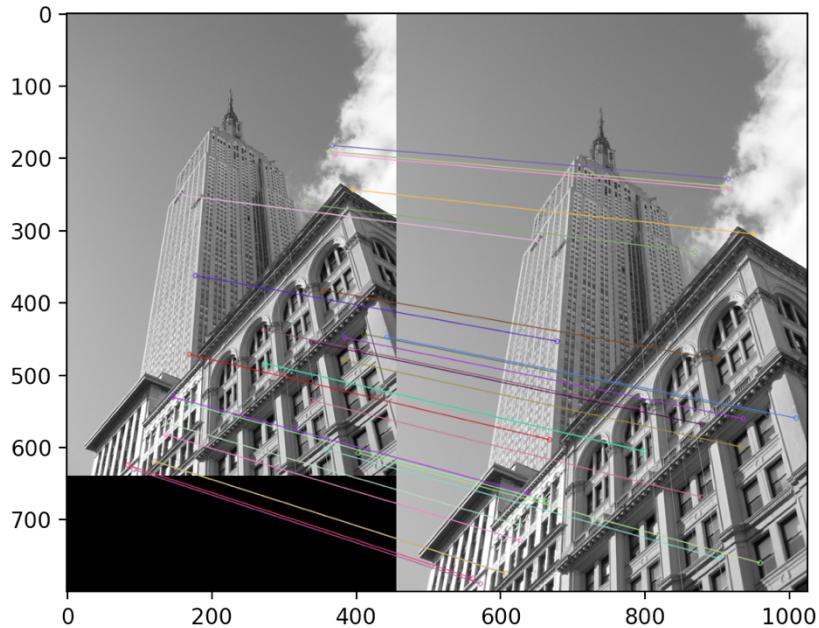
Similarity Distance between img_gray and img_zoomedout_gray is 114.902

Img_gray vs img_gray_zoomedout (30 matches)



Distance between img_gray and img_zoomedout_gray is 437.126

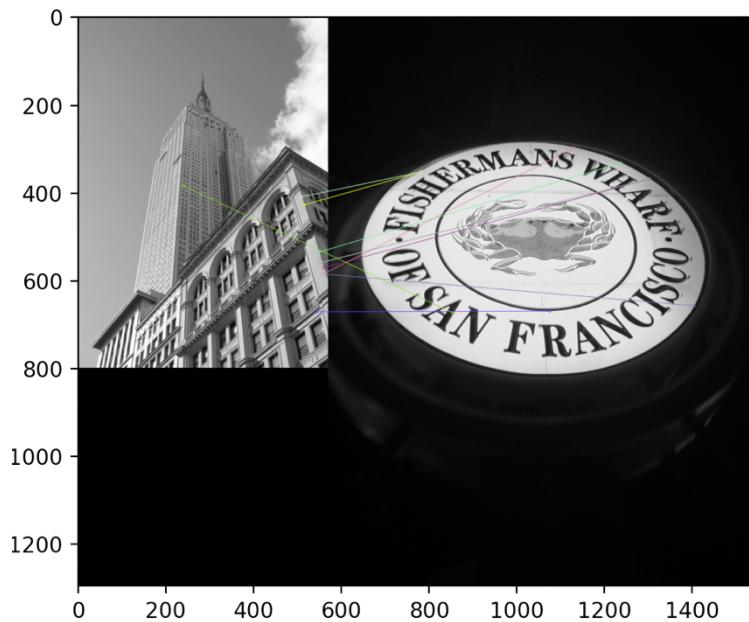
Img_gray_zoomedout vs img_gray (30 matches)



Distance between img_zoomedout_gray and img_gray is 437.126

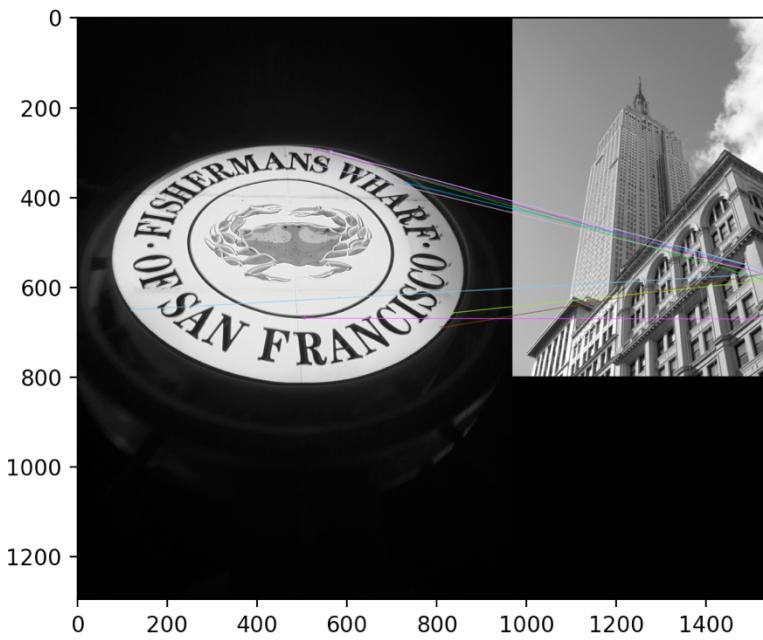
Similarity Distance between img_gray and img_zoomedout_gray is 437.126

Img_gray vs img_gray_other (10 matches)



Distance between img_gray and img_another_gray is 931.293

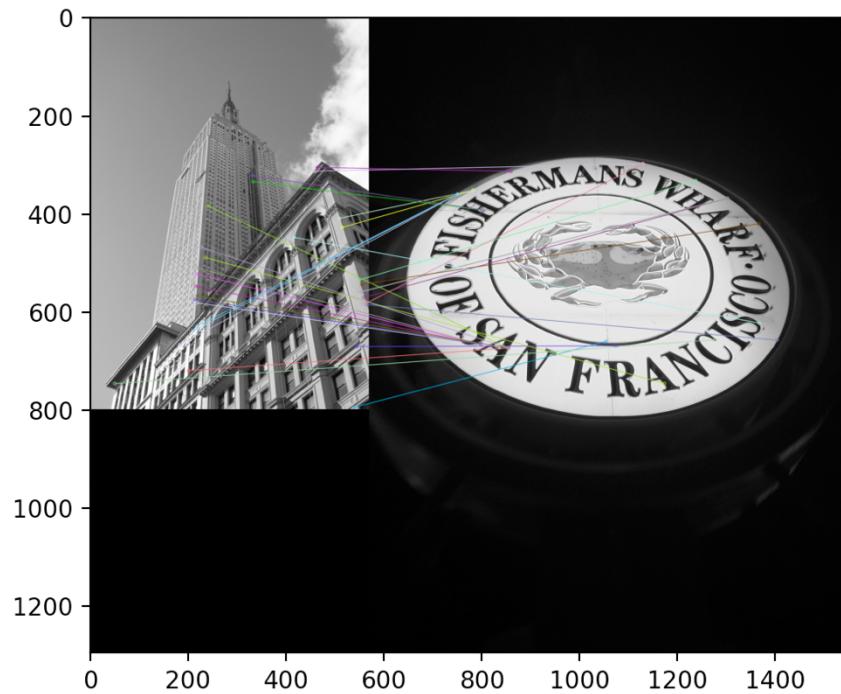
Img_gray_other vs img_gray (10 matches)



Distance between img_another_gray and img_gray is 791.056

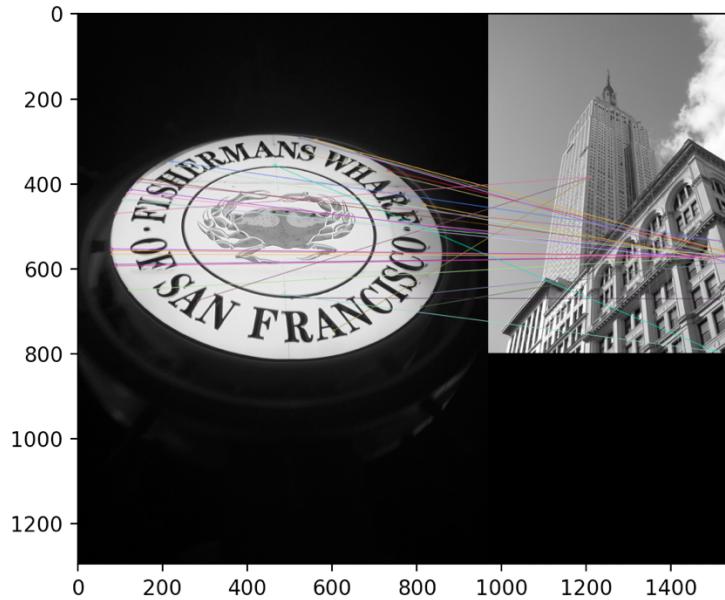
Similarity Distance between img_gray and img_another_gray is 861.174

Img_gray vs img_gray_other (30 matches)



Distance between img_gray and img_another_gray is 4040.236

Img_gray_other vs img_gray (30 matches)



Distance between img_another_gray and img_gray is 3041.692

Similarity Distance between img_gray and img_another_gray is 3540.964

As seen from the first 2 comparisons, when N is larger, the differences in the similarity distance is 0. This means that there is no change in the similarity of the images. However, when comparing with a different image, the increase in N will lead to a larger difference in similarity distance. This can be concluded that as N increases, the accuracy to differentiate the images increases.

For 3.1P, although the images are similar, there is still a small difference in the distance using the Harsdorff distance. For 3.2C, the image descriptor shows a 0 change when using either the first image or second as the first comparison. This is due to the same key points used for calculating the distance for both images, of which are the same. Thus, resulting in 0 differences. For the Harsdorff distance, however, uses Euclidean distance between two vectors. The orientation of the image will slightly change the pixels located at the vector space, thus, resulting in a small difference.