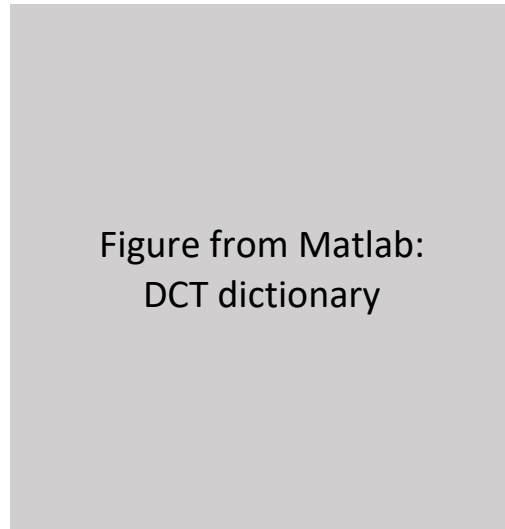
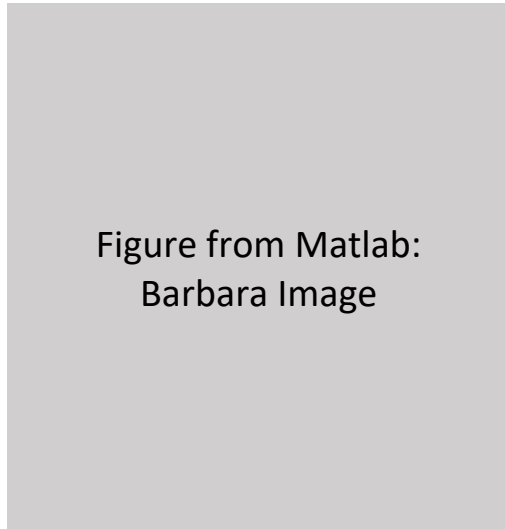


Mid Project Report

Part A: Data Construction and Parameter-Setting:



Part B: Compute the Representation Error Obtained by the DCT Dictionary

Insert average MSE for train set:

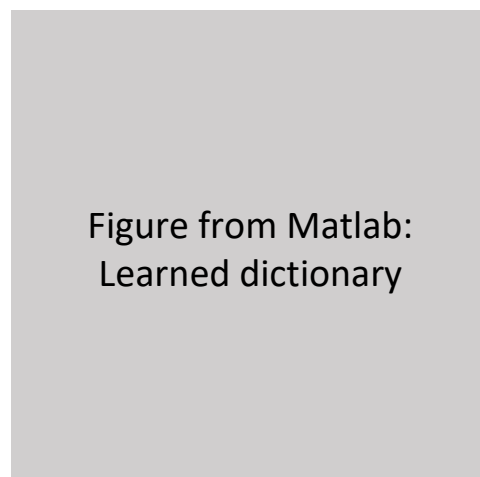
Insert average MSE for test set:

Insert average number of non-zeros for train set:

Insert average number of non-zeros for test set:

Part C: Procrustes Dictionary Learning

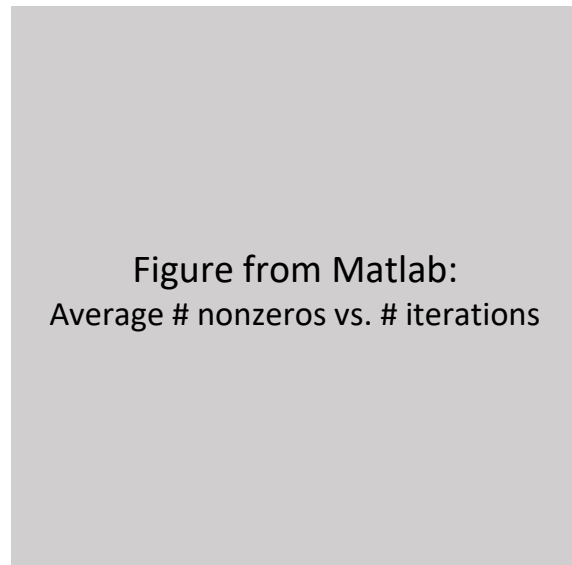
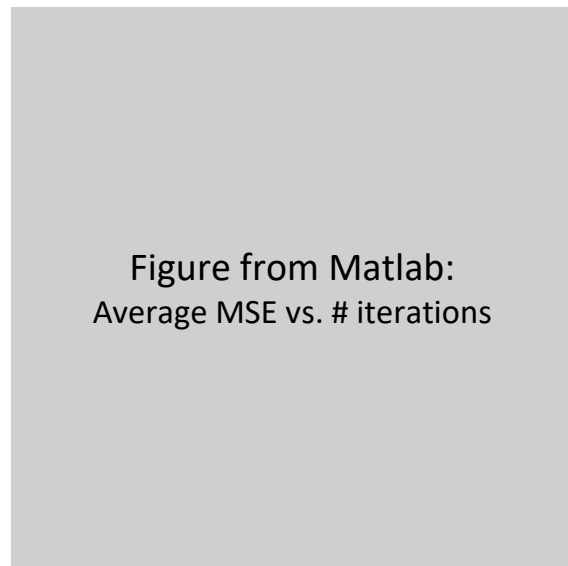
The obtained learned dictionary:



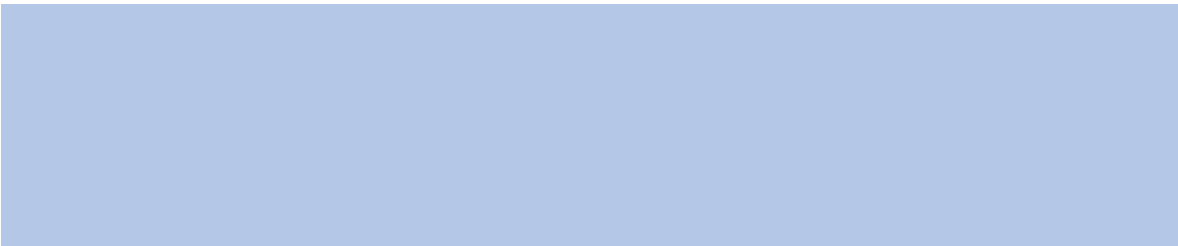
Discuss the obtained dictionary:



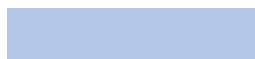
Average MSE and number of nonzeros as a function of the iteration (train-set):



Discuss the obtained curves:



Insert average MSE for test set:



Discuss the obtained MSE:



Compare the results of the DCT dictionary and the learned dictionary:

