CSCI 5561: Assignment #3
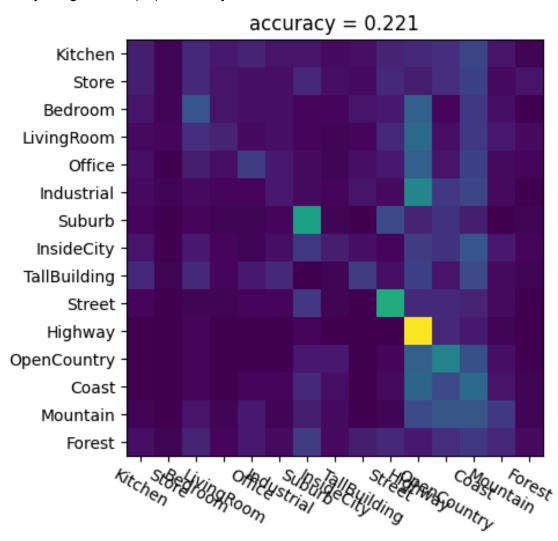
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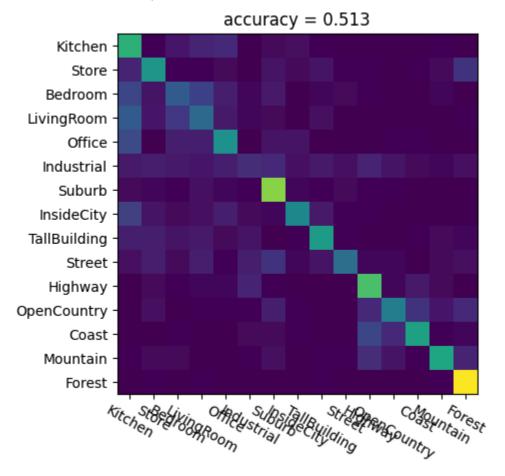
The submitted code uses the VOCAB (dict_size = 60) that I built on my PC and runs in ~3mins. When the dictionary is being built by the code (use_saved_file bool variable inside classify_knn_bow{ line : 193 } and classify_svm_bow{ line : 274 }) it takes ~30 mins to run.
Set the variable use_saved_file to False, this will use the build_visual_dictionary to build the VOCAB at runtime.

With the hyperparameters that I submitted in code, I am getting the below results:

1. Tiny Image + KNN(10), Accuracy = 22.1%

2. BoW + KNN(10), Accuracy = 51.3%

accuracy = 0.513

3. BoW + SVM, Accuracy = 60.7%

accuracy = 0.607