Bag of Words

Dictionary:

He likes machine learning. He did a course on machine learning. Now he does job in the area of machine learning and he likes it.

He-4

likes - 2

machine-3

Jearning - 3

-> Decide a static distionary.

Tevery document will be represented using the dimension of the distionary.

Read about tf.idf

-> Cosine Distance works well here.

Visual Bag of Words

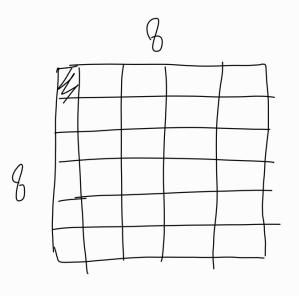
- Similar kind of representation for images-

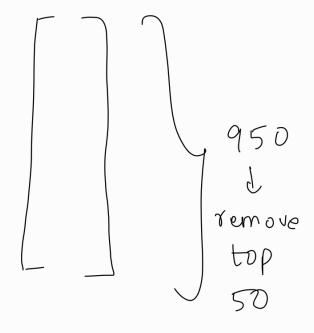
-> Consider 10,000 images

Break each image into 100 patches of 8x8 size each. Similar patches clustered together using K-means.

1000 clusters Each row is a cluster 1000

The clusters which are very large very likely represent the equivalent of stop words. We throw away the top 50 clusters.





- Find distance of each patch of an image from all the centroids and increment the closest centroid.
- → Now this is the representation of the image.