

---

```
% data#####
data_dir = '../data'; % Set this to the location of your data
    directory
[train_samples,test_samples] = sample_select(data_dir);

disp = 1;
% #####
fb = makeFilterbank();
```

**##**

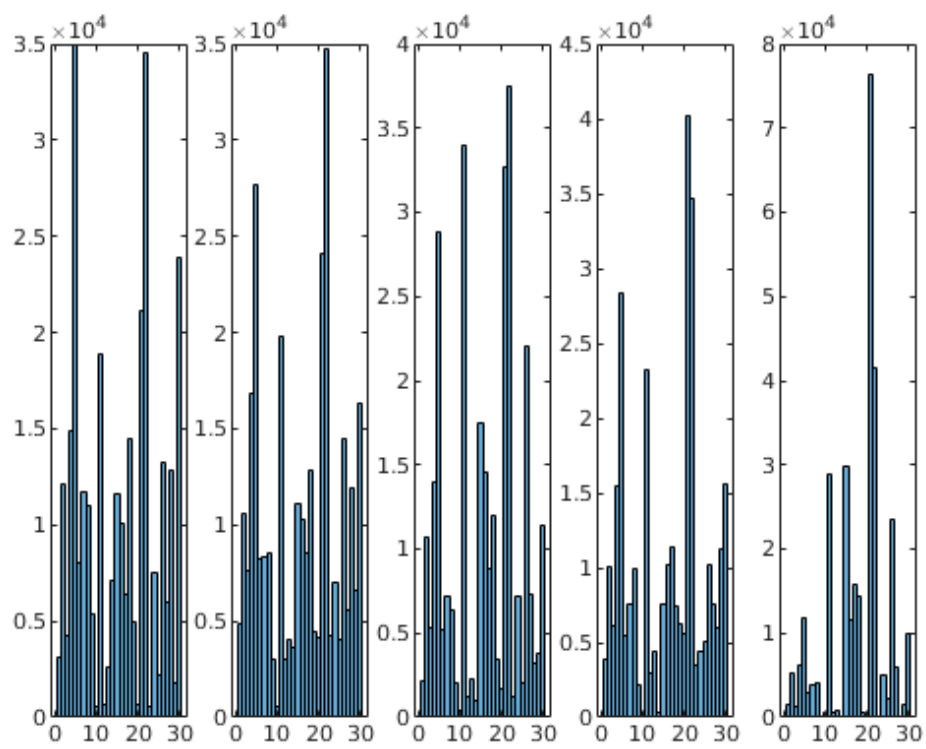
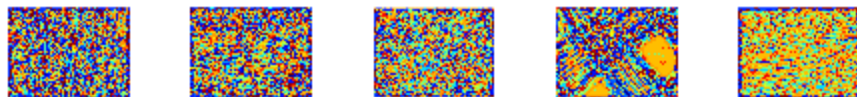
```
#####

samples_res = applyFilterbank(train_samples,fb);

% #####k-means###k=20#####kmeans##
k = 30;
[samples_cluster,centers] = applyKmeans(samples_res,k);

% #####texton###
samples_hist = applyHistogram(samples_cluster);
% close 1;

if disp == 1
    % #####
    visualizeSamples(samples_cluster);
    #####
    visualizeHistogram(samples_hist);
end
```



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##

```
#####  
  
test_samples_res = applyFilterbank(test_samples,fb);  
  
% #####,####pdist2##  
test_samples_cluster = predictClasses(test_samples_res,centers);  
  
% #####texton##  
test_samples_hist = applyHistogram(test_samples_cluster);  
  
% #####  
test_samples_predict = predictLabels(test_samples_hist,samples_hist);  
  
% #####  
accuracy = evalPredict(test_samples_predict,test_samples);
```

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