

Ford Tang

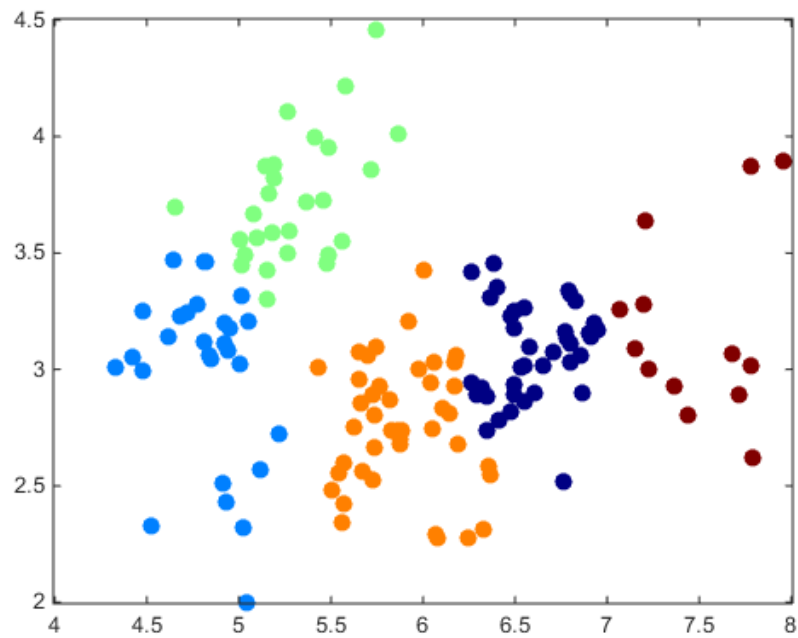
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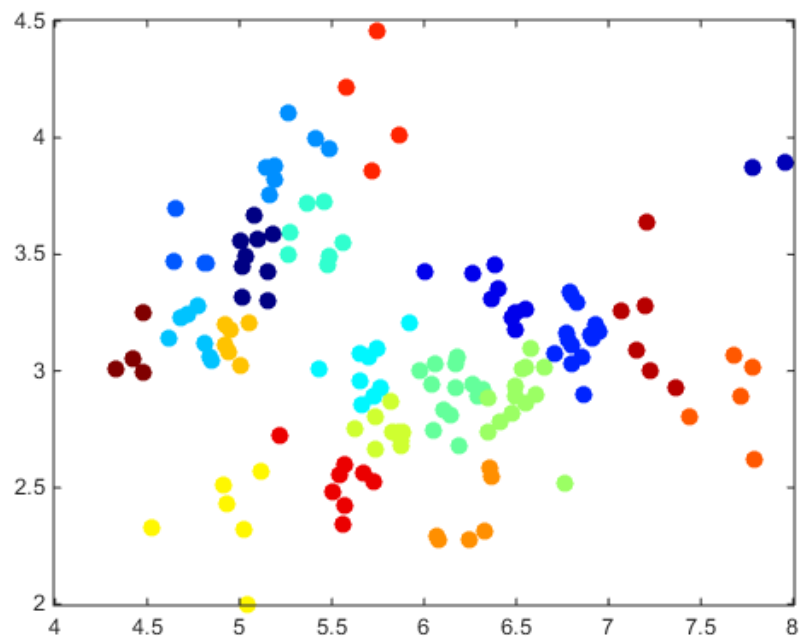
Homework 5

1.

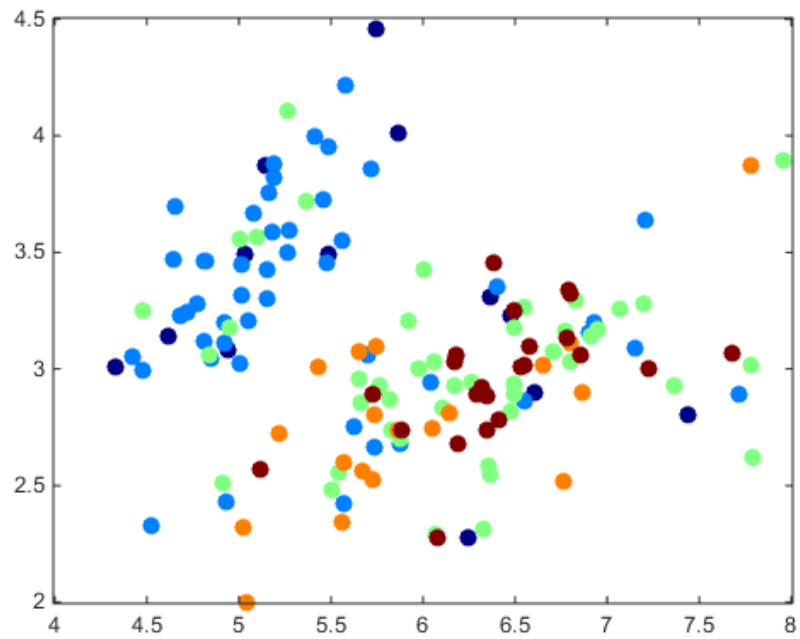
- a. `iris = load('data/iris.txt'); X = iris(:,1:2);`
- b. `z = kmeans(X, 5, 'farthest');`
`plotClassify2D([], X, z)`



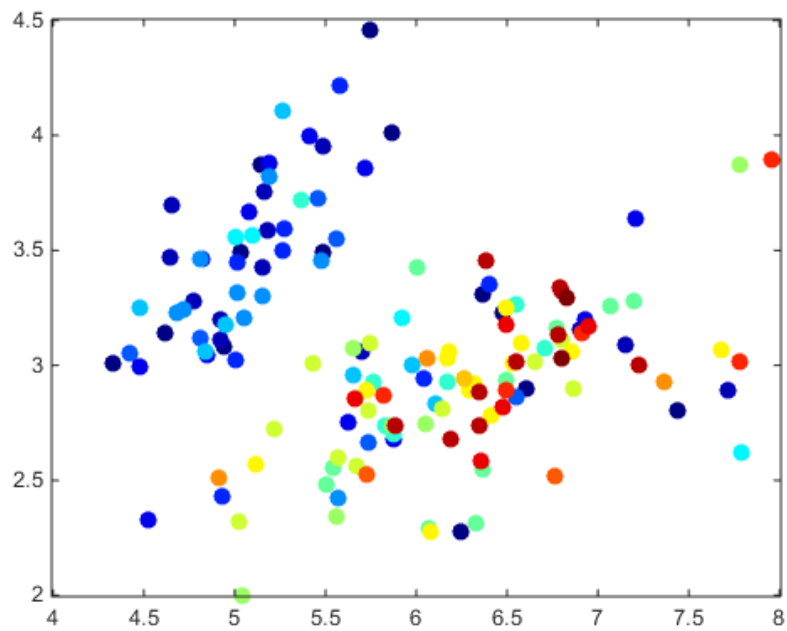
`z = kmeans(X, 20, 'k++');`
`plotClassify2D([], X, z)`



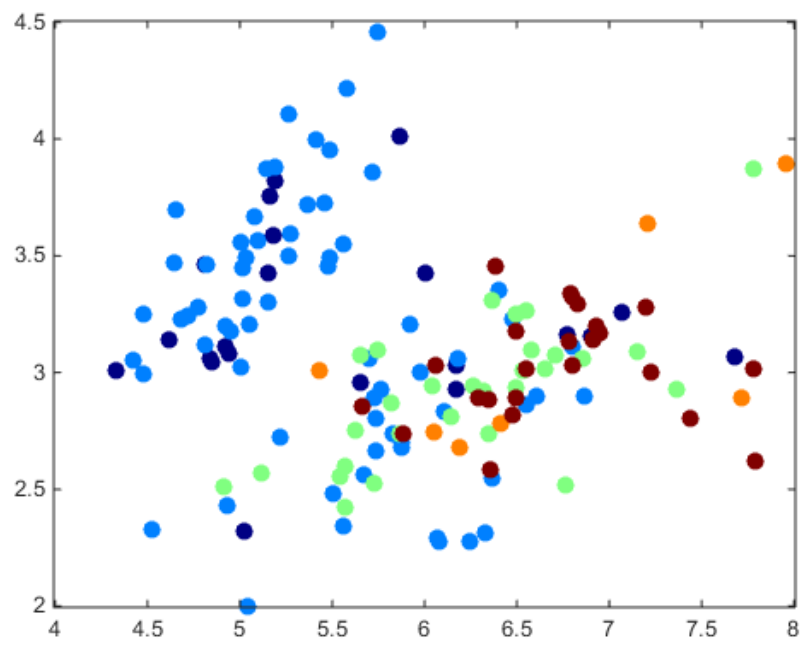
c. `y = linkage(X, 'single');`
`z = agglomCluster(y, 5);`
`plotClassify2D([], X, z);`



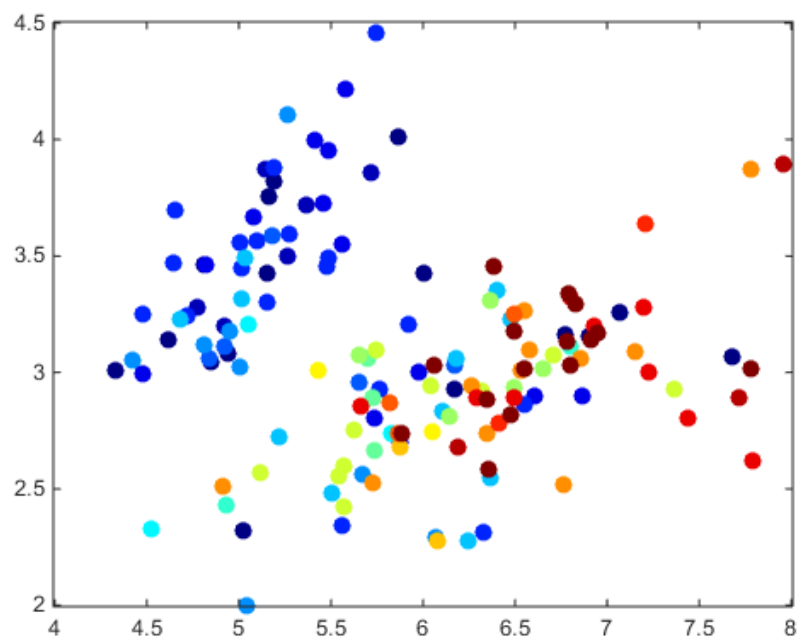
`z = agglomCluster(y, 20);`
`plotClassify2D([], X, z);`



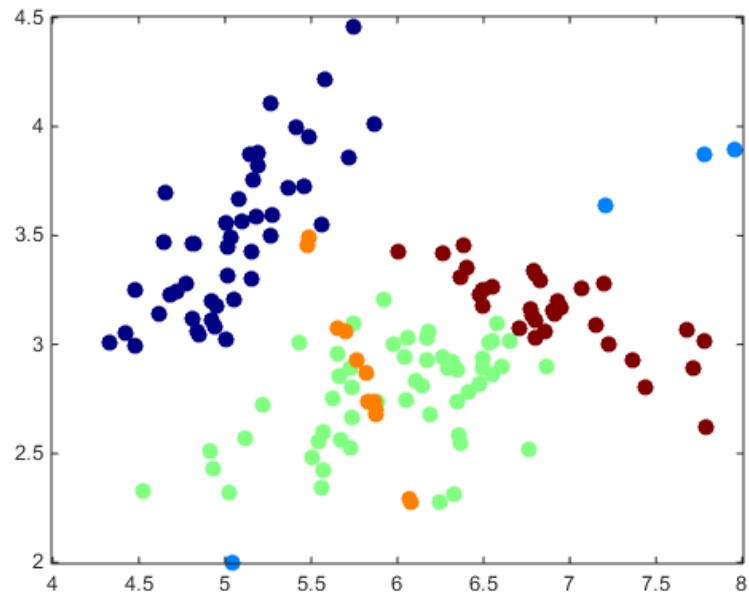
`y = linkage(X, 'complete');`
`z = agglomCluster(y, 5);`



```
z = agglomCluster(y, 20);
plotClassify2D([], X, z);
```



d. `z = emCluster(X, 5, 'farthest');`
`plotClassify2D([], X, z);`



`z = emCluster(X, 20, 'random');`
`plotClassify2D([], X, z);`

