



```
1 import sys
2 from class_vis import prettyPicture
3 from prep_terrain_data import makeTerrainData
4
5 import matplotlib.pyplot as plt
6 import numpy as np
7 import pylab as pl
8
9 features_train, labels_train, features_test, labels_test = makeTerrainData()
10 from sklearn import tree
11 clf2 = tree.DecisionTreeClassifier(min_samples_split=2)
12 clf2 = clf2.fit(features_train, labels_train)
13 clf50 = tree.DecisionTreeClassifier(min_samples_split=50)
14 clf50 = clf50.fit(features_train, labels_train)
15 ##### DECISION TREE #####
16 ### your code goes here--now create 2 decision tree classifiers,
17 ### one with min_samples_split=2 and one with min_samples_split=50
18 ### compute the accuracies on the testing data and store
19 ### the accuracy numbers to acc_min_samples_split_2 and
20 ### acc_min_samples_split_50, respectively
21 acc_min_samples_split_2 = clf2.score(features_test, labels_test)
22 acc_min_samples_split_50 = clf50.score(features_test, labels_test)
23
24 def submitAccuracies():
25     return {"acc_min_samples_split_2":round(acc_min_samples_split_2,3),
26         "acc_min_samples_split_50":round(acc_min_samples_split_50,3)}
```

Good job! Your output matches our solution.

Here's your output:

```
{'acc_min_samples_split_50': 0.912, 'acc_min_samples_split_2': 0.908}
```

