## 封装机器学习算法--决策树

```
In [1]: from ML.decision_tree import DecisionTreeClassifier
         import numpy as np
In [2]: X = np.loadtxt('x.txt')
         y = np.loadtxt('y.txt')
In [3]: dt clf = DecisionTreeClassifier()
In [4]: dt_clf.fit(X, y)
Out[4]: d=2, v=2.45, g=0.5, l=None
In [5]: dt_clf.tree_
Out[5]: d=2, v=2.45, g=0.5, l=None
In [6]: dt_clf.predict(X[:3])
Out[6]: array([0., 0., 0.])
In [7]: y_predict = dt_clf.predict(X)
In [8]: from ML.metrics import accuracy_score
In [9]: accuracy score(y, y predict)
Out[9]: 0.98
In [10]: dt_clf.accuracy_rate(X, y) # 调用封装在决策树算法中的求准确率的函数
Out[10]: 0.98
In [11]: dt clf.show tree()
```