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連結:https://colab.research.google.com/drive/1-Cmwt5E8YsSu4l7nwSt9XCegQjkhZAnT?usp=share_link

```
import os
print(os.getcwd())
     C:\Users\layla\Downloads
print(os.path.abspath("hw2.json"))
     C:\Users\layla\Downloads\hw2.json
import json
from sklearn.feature extraction.text import TfidfVectorizer
from sklearn.neighbors import KNeighborsClassifier
from sklearn.svm import SVC
from sklearn.metrics import accuracy score
# 讀取 hw2. json 檔
file = open('hw2.json', 'r', encoding='utf-8')
mm=[]
#會出現error因為json內容太大,一行一行讀取在合併
for line in file.readlines():
       movie_data = json.loads(line)
       mm.append(movie data)
X = []
y = []
for movie in mm:
       if movie['label'] != 'NA': #忽略NA
              X. append(movie["intro"])
              y.append(movie['label'])
vectorizer = TfidfVectorizer()
X_tfidf = vectorizer.fit_transform(X)
#500拿來評估
train_X_tfidf = X_tfidf[:-500]
train_y = y[:-500]
test X tfidf = X tfidf[-500:]
test y = y[-500:]
```

```
km_classifier = KNeighborsClassifier(n_neighbors=5)
km_classifier, fit(train_X_tfidf, train_y)
km_y_pred = kmn_classifier, predict(test_X_tfidf)
km_accuracy = accuracy_score(test_y, knn_y_pred)

Fint('KNN classifier accuracy: %.27%' % (knn_accuracy * 100))

KNN classifier accuracy: 38.80%

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