

```
[1]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns

from matplotlib import pyplot

%matplotlib inline
```

Use pandas to read .csv files

```
[2]: train = pd.read_csv("./train.csv")
```

Devide into input and output

```
[3]: y = train["method"]
x = train.drop(['method', 'No'], axis=1)
```

training

```
[4]: from sklearn.tree import DecisionTreeClassifier
tree = DecisionTreeClassifier()
tree.fit(x,y)
```

```
[4]: DecisionTreeClassifier()
```

test for myself, I may need some help....

```
[5]: test = pd.read_csv("test.csv")
ans = tree.predict(test)
ans
```

```
[5]: array([1], dtype=int64)
```

We can find that the darker the color of the grid, the stronger the correlation between the two labels.

```
[6]: plt.figure(figsize = (20,8))
sns.heatmap(train.corr(), cmap = 'Blues', annot = True)
```

```
[6]: <AxesSubplot:>
```

