

# Pandas

## 1.DataFrame基本用法

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### 1. T转置

```
import pandas as pd
import numpy as np
data = np.arange(9).reshape(3,3)
pd1 = pd.DataFrame(data, index=["a", "b", "c"], columns=["A", "b", "C"])
print(pd1)
pd2 = pd1.T
print(pd2)
```

将行与列索引的位置进行交换 行<-> 列

### 2. 通过列表索引获取列数据

```
# 获取一列数据
# print(pd1['C'])
# 获取多列数据
column_index=['A', 'C']
print(pd1[column_index])
```

### 3. 增加列数据

```
import pandas as pd
import numpy as np
data = np.arange(9).reshape(3,3)
pd1 = pd.DataFrame(data, index=["a", "b", "c"], columns=["A", "b", "C"])
# 增加列数据
pd1['D']=[1, 2, 10]
print(pd1)
```

### 4. 删除列

```
import pandas as pd
import numpy as np
data = np.arange(9).reshape(3,3)
pd1 = pd.DataFrame(data, index=["a", "b", "c"], columns=["A", "b", "C"])
# 删除列数据
del pd1['b']
print(pd1)
```

