



AniPython

Multindex 多层索引

创建

创建多层索引

方法一: **index**或**columns**传入二维list-like

```
df = pd.DataFrame(  
    data,  
    columns=[  
        ['京东', '京东', '淘宝', '淘宝'],  
        ['销量', '售价', '销量', '售价'],  
    ]  
)
```


创建多层索引

方法二: pandas.MultiIndex

```
pd.MultiIndex.from_product() # 笛卡尔积
```

```
pd.MultiIndex.from_arrays() # 数组
```

```
pd.MultiIndex.from_tuples() # 元组
```

```
pd.MultiIndex.from_frame() # DataFrame
```


笛卡尔积(Cartesian product)

$$A = \{a, b\}$$

$$B = \{0, 1, 2\}$$

$$A \times B = \{(a, 0), (a, 1), (a, 2), (b, 0), (b, 1), (b, 2)\}$$