

# Python library

## Keras( )

## Matplotlib( )

Ububtu

“UserWarning: Matplotlib is currently using agg, which is a non-GUI backend, so cannot show the figure.” when plotting figure with pyplot on Pycharm

```
sudo apt-get install python3-tk
```

```
import matplotlib as plt
```

## NumPy( )

<https://numpy.org>

### Numpy ?

Numerical Python

- 
- 

- N
- array ( )
- ( Broadcast )

```
import numpy as np
```

## Numpy

- 1. [numpy](#)
- 2. [numpy](#)

```
np.arrange(num)  
np.random.shuffle(index)
```

**Pandas(            )**

**SciPy(            )**

**TensorFlow(            )**

**Scikit-learn(            )**

```
pip install
```

```
    , matplotlib
```

From:  
<http://125.132.25.164/dokuwiki/> -  
2023.12

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Last update: **2022/03/10 19:52**

