

Python library

__future__

2 3

```
from __future__ import print_function
```

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

Pandas()

-
-

```
import pandas as pd
```

SciPy()

TensorFlow()

seaborn()

-

```
seaborn as sns
```

Scikit-learn()

pip install

```
from sklearn import model_selection  
 , matplotlib, , , , , , ,
```

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

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Last update: **2022/09/27 10:46**

