

# 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

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