

# Python library

## `__future__`

```
2     3
```

```
from __future__ import print_function
```

## Keras( )

## Matplotlib( )

Ubuntu

“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( )

- 
- 

```
import pandas as pd
```

## SciPy( )

## TensorFlow( )

## seaborn( )

- 

```
seaborn as sns
```

# Scikit-learn( )

pip install

```
from sklearn import model_selection
```

```
, matplotlib, , , , ,
```

From:  
<http://rwiki.repia.com/> -  
2023.12

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

