

PC

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pythonProject - C:\Users\vip\Desktop\assignment_01.ipynb

Users \ vip \ Desktop \ assignment_01.ipynb

main.py x assignment_01.ipynb x

pythonProject C:\Users\vip\PycharmProjects\pythonProject

venv library 根

Lib

Scripts

.gitignore

pyvenv.cfg

学习资料

main.py

外部库

临时文件和控制台

Bookmarks

Python is a great general-purpose programming language on its own, but with the help of a few popular libraries (numpy, scipy, matplotlib) it becomes a powerful environment for scientific computing.

We expect that many of you will have some experience with Python and numpy; for the rest of you, this section will serve as a quick crash course both on the Python programming language and on the use of Python for scientific computing.

In this tutorial, we will cover:

- Basic Python: Basic data types (Containers, Lists, Dictionaries, Sets, Tuples), Functions, Classes
- Numpy: Arrays, Array indexing, Datatypes, Array math, Broadcasting
- Matplotlib: Plotting, Subplots, Images
- IPython: Creating notebooks, Typical workflows

A Brief Note on Python Versions

As of January 1, 2020, Python has **officially dropped support** for `python2` . We'll be using Python 3 for this iteration of the course. You can check your Python version at the command line by running `python --version` .

```
!python --version
```

Basics of Python

Python is a high-level, dynamically typed multiparadigm programming language. Python code is often said to be almost like pseudocode, since it allows you to express very powerful ideas in very few lines of code while being very readable. As an example, here is an implementation of the classic quicksort algorithm in Python:

```
def quicksort(arr):
    if len(arr) <= 1:
        return arr
    pivot = arr[len(arr) // 2]
    left = [x for x in arr if x < pivot]
    middle = [x for x in arr if x == pivot]
    right = [x for x in arr if x > pivot]
    return quicksort(left) + middle + quicksort(right)

print(quicksort([3,6,8,10,1,2,1]))
```

Version Control

TODO

问题

Python Packages

Python 控制台

终端

事件日志

Python 3.9 (pythonProject)

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