COM5507 Social Media Data Acquisition and Processing
Week 3. Python in a Notebook

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Agenda

- Week 1 and 2 review: Python program execution
  - Folder management in CLI
  - GitHub: basic operations
- Jupyter Notebook
  - A new way of research presentation
- Three Important Data Science Packages (*)
  - Numpy
  - Pandas (*)
  - Matplotlib (*)

Week 1 & 2 review

- In-class demonstration

Jupyter Notebook

- Installation (please refer to week 1)
  - Tips: use Anaconda
- A new way of presentation
  - [A gallery of interesting Jupyter Notebooks](#)

Jupyter Notebook

1. Executing a Python program
2. Markdown language in the Notebook
3. Fundamentals of cells and scripts
4. Recap: Python data types
5. Recap: Python data structures
6. Control flow statements
7. Numpy
8. Pandas

In-class demonstration

- *py_nb_intro_1.ipynb*
- *py_nb_intro_2.ipynb*
- *py_numpy.ipynb*
- *py_nb_pandas_stocks.ipynb*