

# Non-basic Python Basics

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# Why learning Python?

- Easy to learn and quick to use, widely applicable, with numerous packages.
- Mindset
  - The learning path of Python can be extrapolated to other fields.
  - How to persist? interest and keeping using
  - The belief that any specific problem can be solved given enough time.

# Four levels of Python Learning

- ① Basic Grammar
- ② Applications
  - Web Crawling
  - Data Analysis
  - Machine Learning
  - ...
- ③ Framework
  - Large Project
  - Object-oriented Programming
- ④ The Zen of Python

# Preparation

How to “write” codes?

- Editor: VSCode or PyCharm
- “.py” V.S. “.ipynb”
- Plugins
- Environment: Anaconda or Miniconda
- conda, pip, Pypi and GitHub
- LLM Assistance
- Comments and Annotations
- Remote SSH
- Write with others: git and code formatter

- How can one quickly and accurately find the desired information?
  - ① Browser and Extensions
  - ② Google or Bing
  - ③ Bilibili and Xiaohongshu
  - ④ Zhihu and CSDN
- How to break down what you want into goals?
- How to lighten your own burden?
- Use Markdown or LaTeX instead of Word.

***Thanks !***