Python数据分析

概述Python语言特性 介绍Python数据处理技术

The Zen of Python

- import this
- Python features
 - Iterator: comprehensions, generator, simple data structure
 - Functional programming: MapReduce, lambda expression, decorator, partial function
 - Description of the original o
 - Tools: regex, datetime, collections, itertools...

Fetch datasets in Python

- Excel/CSV: relation model
- pd.read_excel(filename, header=None)
- pd.read_csv(filename)

10 minutes to pandas

- 今日加餐: 文档阅读指南
- 10 minutes to pandas pandas 1.4.0 documentation

Matplotlib绘图

- Examples Matplotlib 3.5.1 documentation
- More in seaborn

Third-party Python library

- Scikit-learn: traditional machine learning
- Scrapy: web scraping library
- Selenium: web browser simulation
- BeautifulSoup4: HTML/XML analysis
- And more
 - Web project deployment: django, flask...
 - Library supporting glue language feature: pyspark, pymysql...
 - Scientific computation: scipy
 - Image processing: OpenCV, Pillow