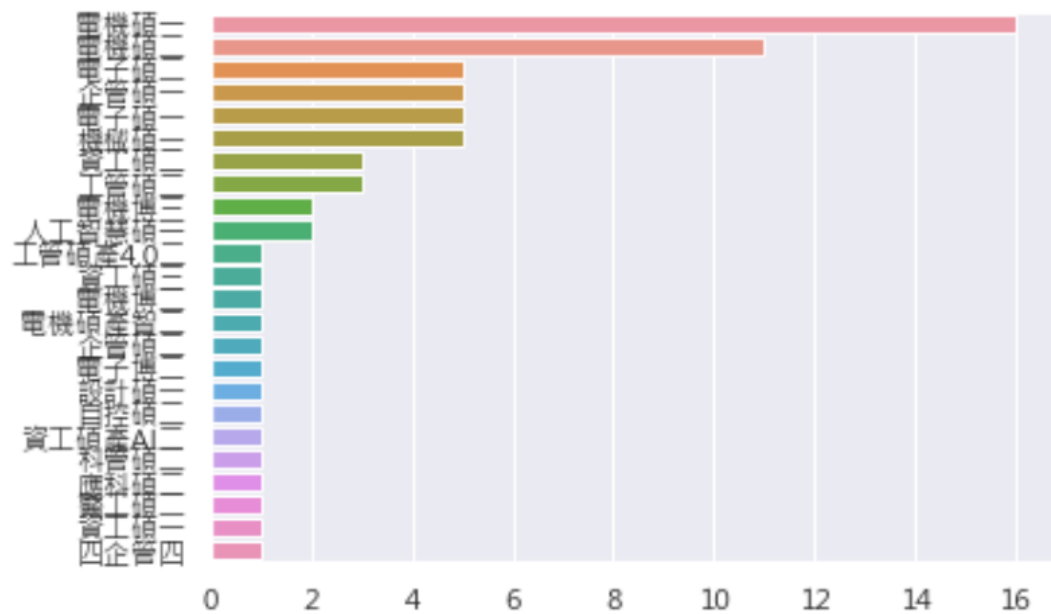


2022/9/6, 2021/9/24

5. You have to be Python experienced to feel most productive in taking this course.



- 課程 github: https://github.com/NTUST-ICLab-Course/Data-Analysis_v1111
去年的 github https://github.com/NTUST-ICLab-Course/Data-Analysis_v1101

Chapter 01: 寫在前面

課程錄影

- 影片連結: <https://www.youtube.com/watch?v=kEnKmHcR7b0>

安裝 Anaconda 環境以及使用 Jupyter Notebook

- 影片連結: <https://www.youtube.com/watch?v=BCIf65RyGz0>
- Anaconda 網站: <https://www.anaconda.com/products/individual>

Corey Schafer pandas 教寫第一個程式的 youtube

- 影片連結: https://www.youtube.com/watch?v=ZyhVh-qRZPA&list=RDCMUCCezlgC97PvUuR4_gbFUs5g&start_radio=1&rv=ZyhVh-qRZPA&t=2

請指引到 Corey Schafer 的 github

- https://github.com/CoreyMSchafer/code_snippets/tree/master/Python/Pandas

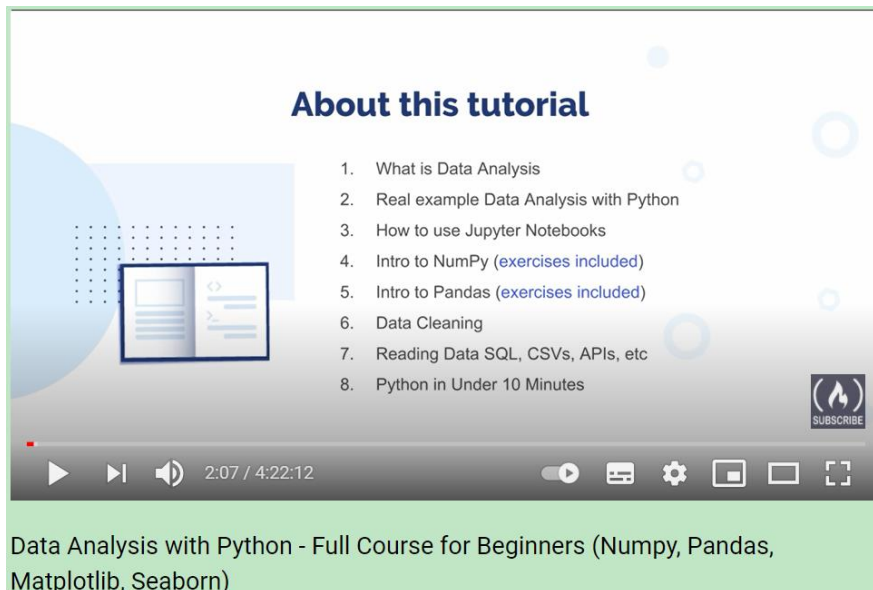
Corey Schafer 範例 data

- <https://github.com/plembo/pandas-tutorials/tree/master/data>

- 評分機制：
- 資料標註練習 2 次： $10 * 2 = 20\%$
 - (兩人隨機配對一組)習題 5 次： $8 * 5 = 40\%$
 - (三人一組)分組專題，期中指定題與期末自選題各一次： $20 * 2 = 40\%$
- 習題：五題
- 網路爬文技術 BeautifulSoup，Selenium (旭清)；
 - 臺灣證券交易所每日股票買賣超主力分析 (旭清)；
 - 不同電子商務公司之搜尋與價格比較 (竣崴)；
 - 電影之搜尋與推薦系統 (可東、竣崴)；
 - 總統大選選舉捐款金源分析 (威霆)；
- 學期專題：期中指定與期末自選
- 期中指定題為電子商務的比較：
 - (1) 搜尋結果→ 用 Round1 的測試集作評測；
 - (2) 比價：同商品的價格。電子商務商家包括：京東、Momo，阿里巴巴，最後是 PChome，等。
 - 期末自選：自己決定，或是助教指導的
 - 3 組作「電子商務之搜尋模型訓練與驗證集」 (竣崴)；
 - 3 組作「特定分類商品之標籤辨識技術」NER (威霆)；
 - 3 組作「客服聊天機器人」(旭清)。

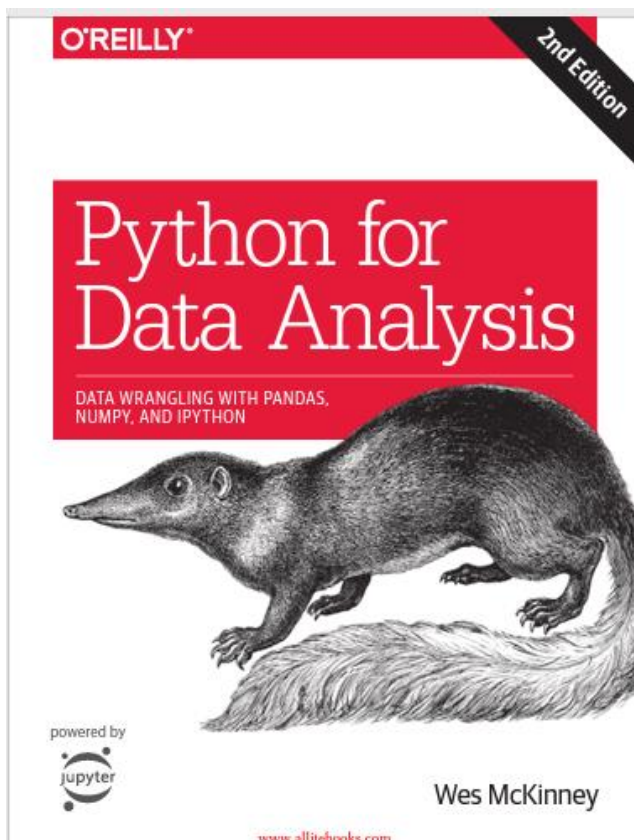
6. Several good online tutorials on general modules of data science, like: numPy, pandas, matplotlib, and seaborn, etc.

<https://www.youtube.com/watch?v=r-uOLxNrNk8&t=113s>

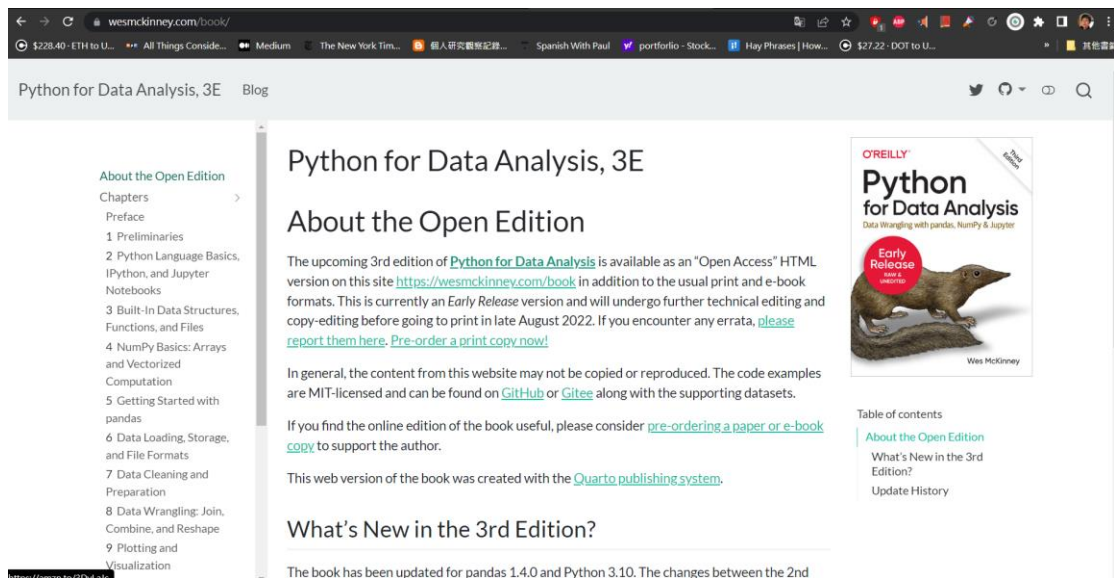


7. Textbook pdf, somehow, is available online:

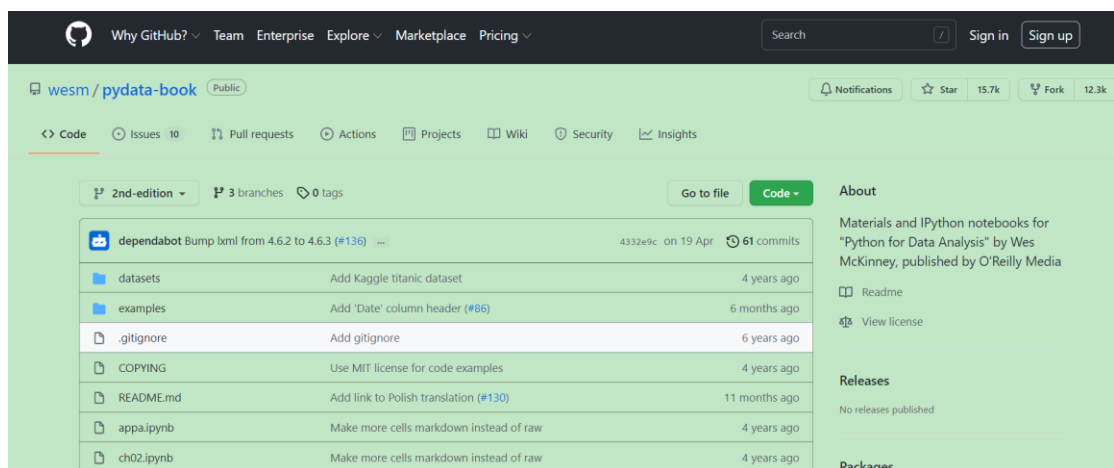
<https://www.programmer-books.com/wp-content/uploads/2019/04/Python-for-Data-Analysis-2nd-Edition.pdf>



8. Actually, the new third edition is (?) just out! And an “Open Access” HTML version is available here: <https://wesmckinney.com/book/>



9. github of the Python codes in the textbook by the author: (second edition)
<https://github.com/wesm/pydata-book>



github of the Python codes in the textbook by the author: (third edition)
<https://github.com/wesm/pydata-book/tree/3rd-edition>

10. Datasets exploration from Kaggle for individual project proposal and term project.

<https://www.youtube.com/watch?v=u9MIwoFWXVg&t=79s>

Why Kaggle?

- ▶ Kaggle is an Airbnb for Data Scientists, Data Analyst and all the Data Enthusiast!
- ▶ A Website for sharing ideas, getting inspired, competing against other data scientists, learning new information and coding tricks!
- ▶ 536,000 active Kagglers from 194 countries!



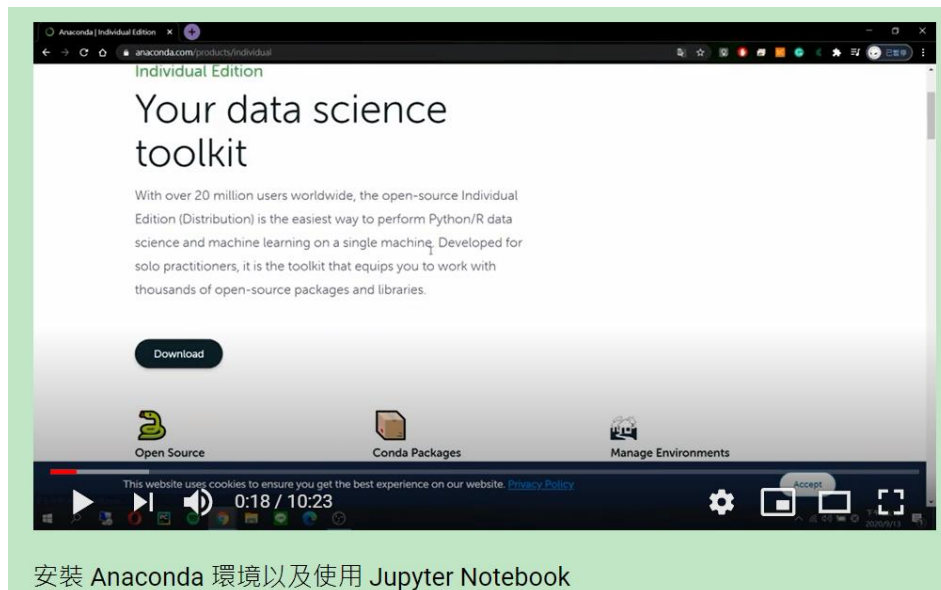
11. Current status of data science:

<https://www.kaggle.com/ankitkumarsaini/current-status-of-data-science>

A screenshot of a Kaggle notebook interface. The left sidebar shows the Kaggle logo and navigation links: Create, Home, Competitions, Datasets, Code, Discussions, Courses, and More. The main content area displays the notebook title 'Current Status Of Data Science' by Ankit Kumar Saini, posted 8 months ago with 340 views. Below the title, it indicates the notebook is for Python and is based on the '2020 Kaggle Machine Learning & Data Science Survey'. The interface includes tabs for Notebook, Data, Logs, and Comments (13). At the bottom, there is a 'Run' button and a version indicator showing 'Version 3 of 3'.

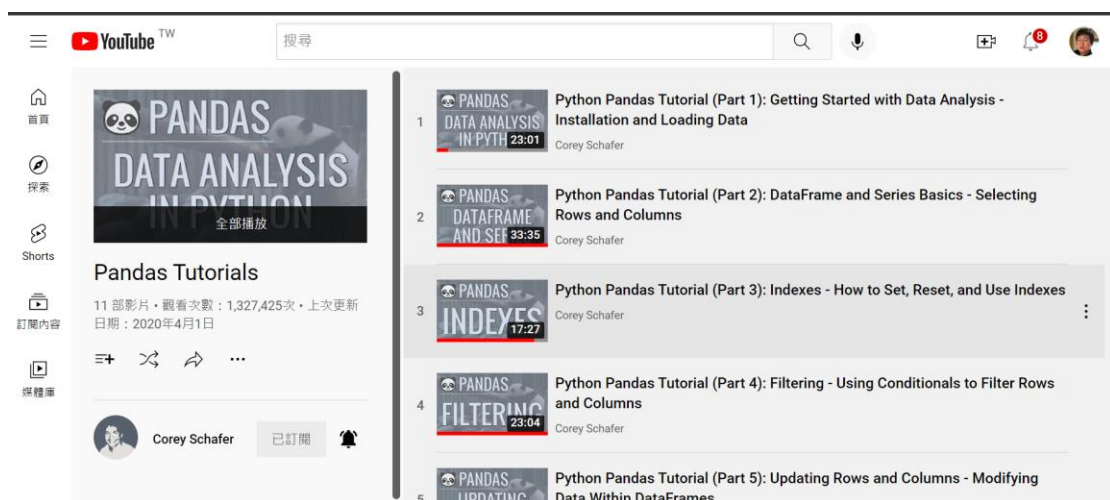
12. Install anaconda + Jupyter

<https://www.youtube.com/watch?v=BCIf6SRyGz0&t=15s>

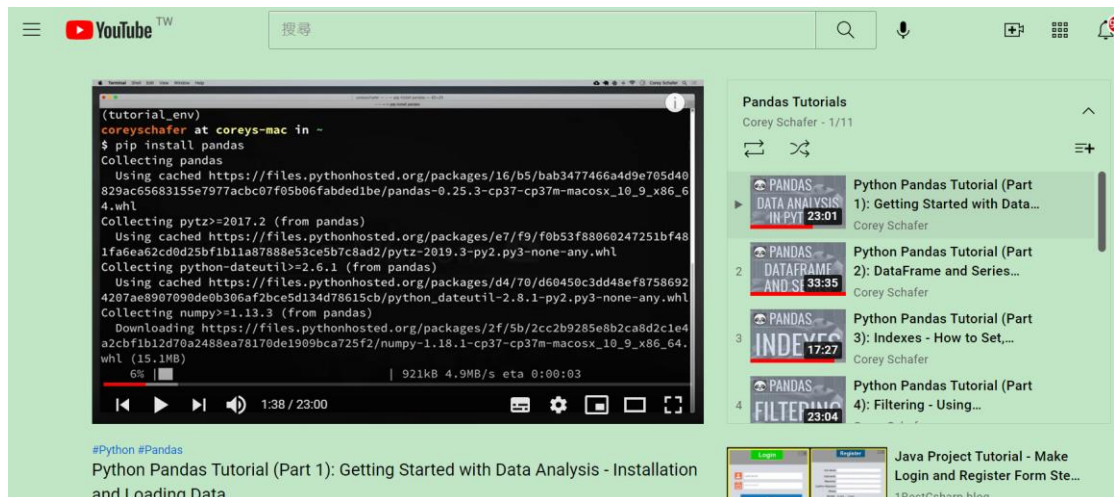


13. Try out Corey Schafer's Pandas tutorial series

<https://www.youtube.com/playlist?list=PL-osiE80TeTsWmV9i9c58mdDCSskIFdDS>

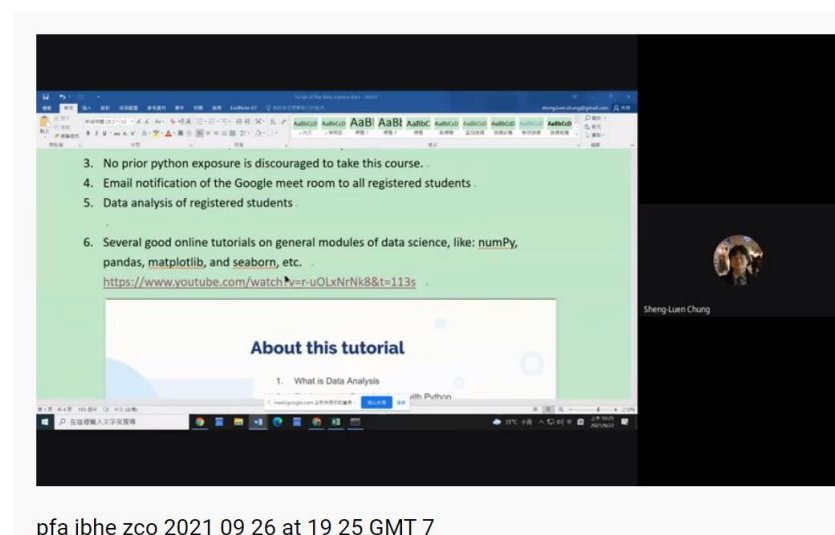


<https://www.youtube.com/watch?v=ZyhVh-qRZPA&list=PL-osiE80TeTsWmV9i9c58mdDCSskIFdDS>



First (Introductory) week of this course:

<https://www.youtube.com/watch?v=e544uSMYP-c>



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Takeaway:

1. Install anaconda + jupyter
<https://www.youtube.com/watch?v=BCIf6SRyGz0&t=15s>
2. Finish reading Chapter 2 of the textbook (2nd Ed. or 3rd Ed.)
3. Try out ch02.ipynb (TA will announce when and where it is ready)
4. Try out Corey Schafer's Python Pandas Tutorial (part 1)
<https://www.youtube.com/playlist?list=PL-osiE80TeTsWmV9i9c58mdDCSskIFdDS>
5. Find two other of your project team members.
6. I will not see you next week. Please check out the recorded video, announced later in Moodle.
https://github.com/NTUST-ICLab-Course/Data-Analysis_v1111