#### 第 1 章，第 2 單元 - 打造專屬Python實驗室II

#### 安裝方法 (Windows 64位元)

除了影片上的教學外

現在有個更簡易的方法，適合windows作業系統64位元：

1. [安裝miniconda](https://docs.conda.io/en/latest/miniconda.html) 還有 [git](https://git-scm.com/download/win)

2. 從開始工具列打開 anaconda prompt 並輸入第一行：

powershell -Command "(New-Object Net.WebClient).DownloadFile('https://drive.google.com/uc?export=download&id=1h4L0wANsYFvf-HM0KHihZkQNXzr8PCTZ', ‘setup\_env.bat’)"

3. 接著輸入第二行

echo Y | setup\_env.bat

耐心等待，假如跑到一個地方跑太久，可以按 Enter ，假如卡住就會自動繼續跑。跑完最後沒有出現 ERROR 就是安裝成功囉！這個程式會幫你重新安裝 finlab 環境、並且安裝需要的 packages，最後還會幫你下載並且測試課程範例喔！

setup.bat 內容

call conda env remove -n finlab

call conda create -n finlab python=3.7 --yes

REM =============== PACKAGES ==============

call conda activate finlab

call conda install -c conda-forge implicit

call conda install -c anaconda py-xgboost

call conda install bottleneck

call python -m pip install pandas==1.1.4 requests==2.22.0 tqdm==4.31.1 seaborn tensorflow==1.14.0 ipykernel keras==2.2.4 lightgbm==2.2. ipywidgets==7.4.2 lxml

call python -m pip install eli5==0.10.1 Skater==1.0.4 shap==0.37.0 mlxtend==0.18.0

call python -m pip install scikit-learn==0.21.3

call python -m pip install pyfolio==0.9.2

REM ================= TALIB ===============

powershell -Command "(New-Object Net.WebClient).DownloadFile('https://drive.google.com/uc?export=download&id=1U60ZIn\_GcY3GTzg-O4etKBALHGEkHUcg', 'TA\_Lib-0.4.19-cp37-cp37m-win\_amd64.whl')"

call python -m pip install TA\_Lib-0.4.19-cp37-cp37m-win\_amd64.whl

REM ======== JUPYTER LAB IPYWIDGETS ======

call conda deactivate

call python -m pip install jupyterlab==3.0.0

call python -m pip install widgetsnbextension==3.5.1

call python -m pip install jupyterlab-widgets==1.0.0

call conda activate finlab

REM ============= KERNEL SETUP ============

call jupyter kernelspec uninstall finlab

call python -m ipykernel install --user --name finlab

REM ================ CHECK ===============

call python -m pip uninstall -y numpy

call python -m pip uninstall -y pandas

call python -m pip uninstall -y scipy

call python -m pip install numpy==1.19.3 pandas==1.1.4 scipy

call python -m pip install h5py==2.10

call python -m pip install git+https://github.com/quantopian/pyfolio

powershell -Command "(New-Object Net.WebClient).DownloadFile('https://drive.google.com/uc?export=download&id=1GQzRpMN\_RR1v9kXWOXn5BXMHKfyk0ET4', 'check.py')"

call python check.py

powershell -Command "(New-Object Net.WebClient).DownloadFile('https://drive.google.com/uc?export=download&id=1zgu4UuMtvWNwVsgzi1Yo-bNHW\_ZGJAzd', 'download\_material.py')"

call python download\_material.py

cd finlab\_ml\_course

call python auto\_update.py

=================================

直接執行上面黃色部分, 下載 download\_material.py,

call python download\_material.py, 就可以下載

finlab.zip

notebook.zip

history.zip

第 1 章，第 3 單元 - 【資料處理】大盤1分K爬蟲練習

課程範例

在前一個單元，我們用自動化程式，幫大家下載好了！不用再額外下載課程範例或是歷史資料，只要打開anaconda prompt (Windows) 或是 terminal (MacOS)，輸入：

jupyter lab

就會看到 finlab\_ml\_course 的資料夾，點進去即可直接開始上課！

假如**之後我們發佈更新版**，需要更新教材，可以打開anaconda prompt輸入：

python download\_material.py

cd finlab\_ml\_course

conda activate finlab

~~python auto\_update.py # 將資料庫更新並且commit~~

即可！