

2A. (a) 安裝 Anaconda https://www.anaconda.com/download/

Anaconda 5.2 For Windows Installer

Python 3.6 version *

Download

64-Bit Graphical Installer (631 MB) ?

32-Bit Graphical Installer (506 MB)

Python 2.7 version *

Download

64-Bit Graphical Installer (564 MB) ②

32-Bit Graphical Installer (443 MB)





2A. (b)建新 Environment 'tensorflow'

Anaconda3 (64bit) -> Anaconda Prompt conda env list

conda create -n tensorflow pip python=3.5 conda activate tensorflow pip install --ignore-installed --upgrade tensorflow pip install opency-contrib-python --upgrade pip install matplotlib

pip install bleach==1.5.0 pip install html5lib==0.9999999 pip install keras

conda install scikit-learn conda install -c conda-forge scikit-image conda install -c cogsci pygame



2A. (b)建新 Environment 'tensorflow'

Anaconda3 (64bit) -> Anaconda Prompt conda env list

安裝Optical Character Recognition (OCR)
Windows 安裝: https://digi.bib.uni-mannheim.de/tesseract/
設環境變數 path C:\Program Files (x86)\Tesseract-OCR
tesseract -v

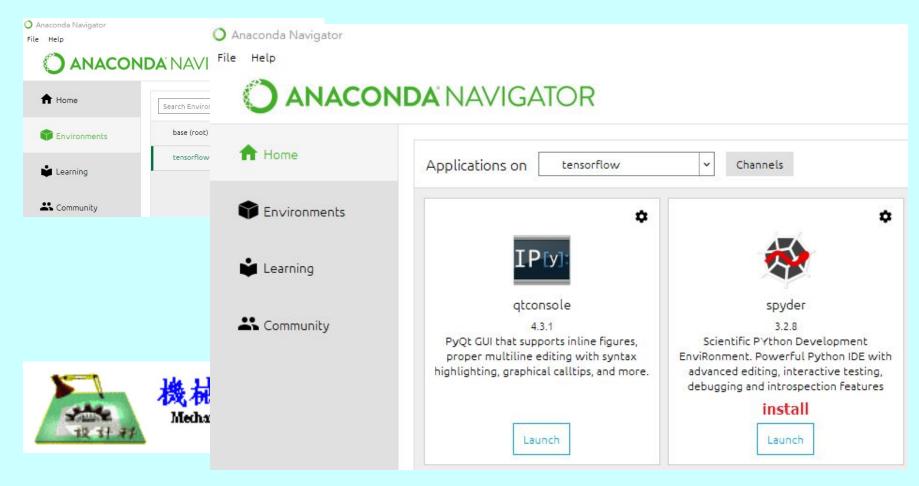
pip install pillow pip install pytesseract

pip install pyzbar // bar code

pip install imgui[full]



2A. (c)產生 'tensorflow' 的spyder





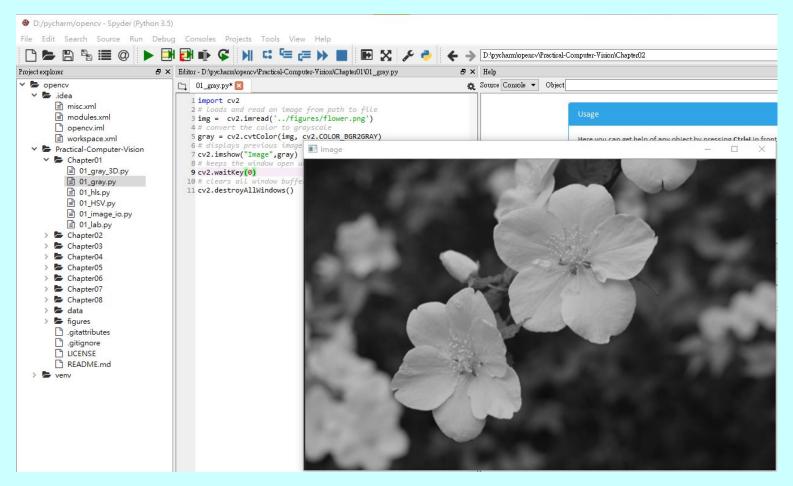
2A. (d)範例

git clone https://github.com/PacktPublishing/Practical-Computer-Vision



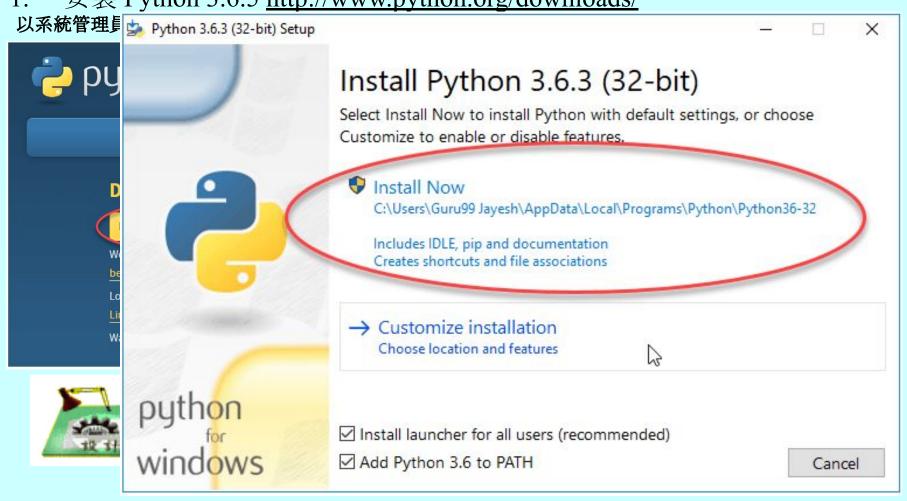


2A. (e)執行 spyder(tensorflow)





1. 安裝 Python 3.6.5 <u>http://www.python.org/downloads/</u>



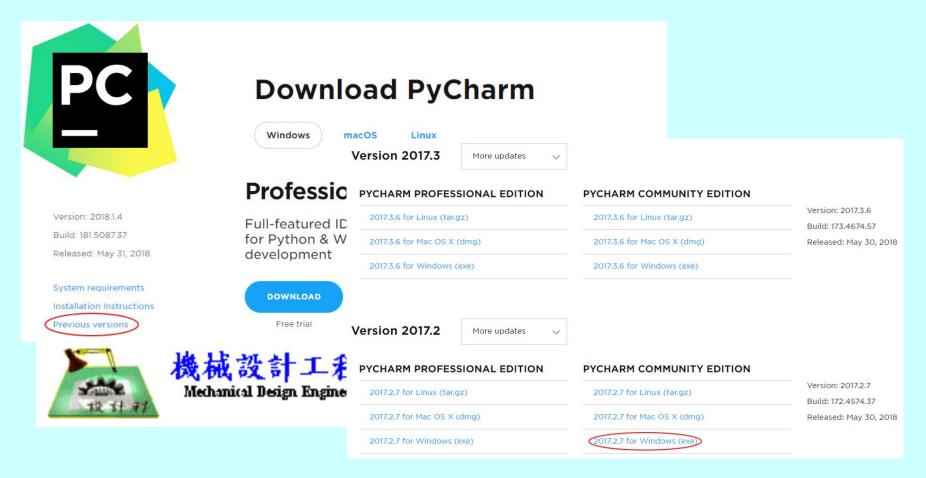


2. 安裝 PyCharm https://www.jetbrains.com/pycharm/download/
2018.1.4版跟anaconda不相配





2. 安裝 PyCharm https://www.jetbrains.com/pycharm/download/ **安裝2017.2.7版**

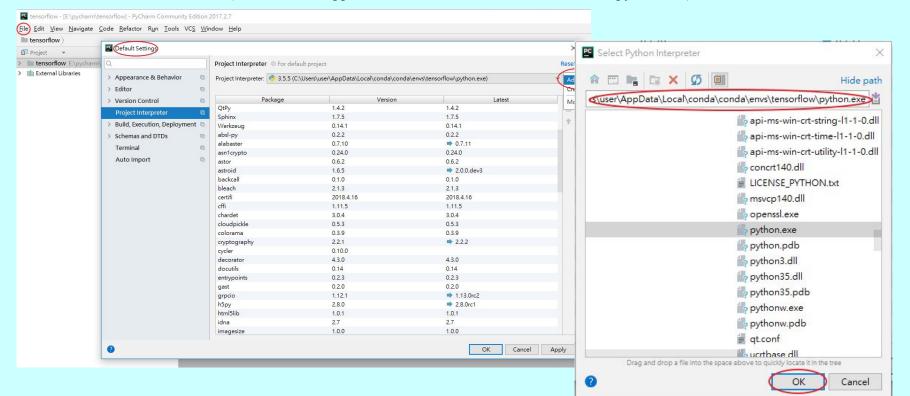




2. 安裝 PyCharm https://www.jetbrains.com/pycharm/download/ b定使用Anaconda建好的opency, tensorflow環境

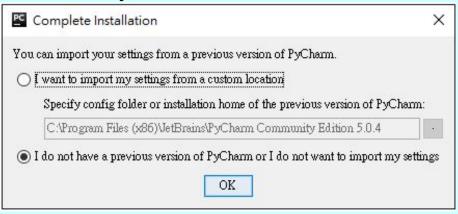
Anaconda3 (64bit) -> Anaconda Prompt conda env list

查出tensorflow環境的位置. (c:\Users\user\AppData\Local\conda\conda\envs\tensorflow\python.exe)



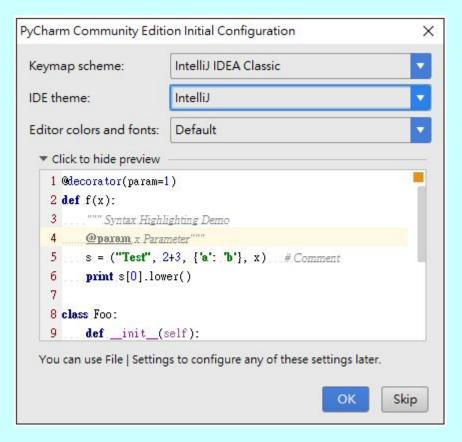


3. 設定PyCharm



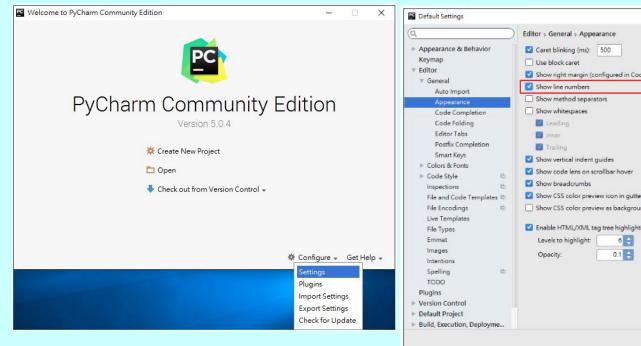
機械設計工程系 Mechanical Design Engineering

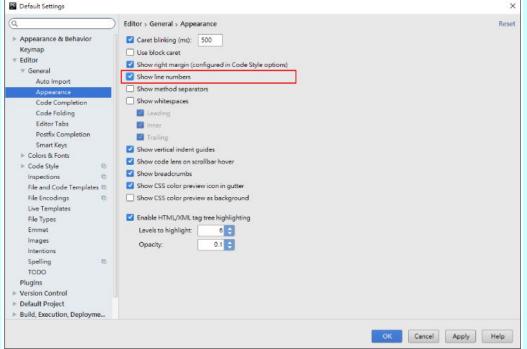
Theme





3.到Editor / Appearance, 開啟行號

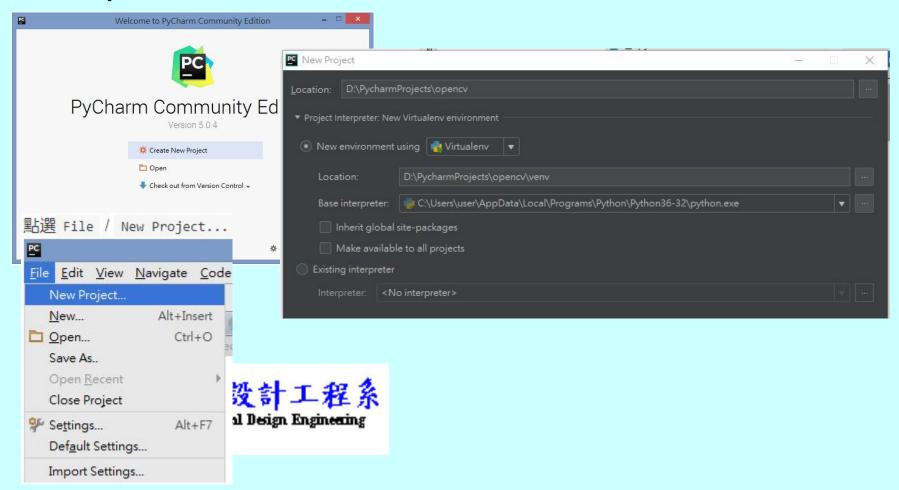






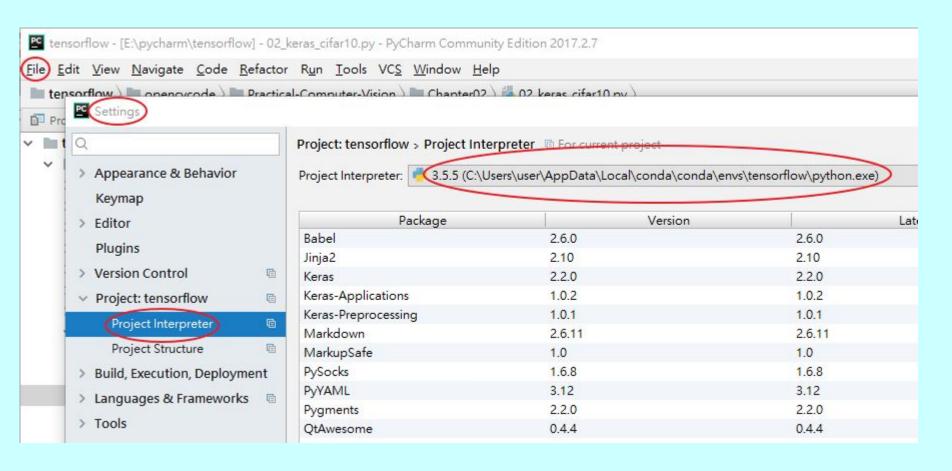


4.建立 PyCharm 專案





2. 安裝 PyCharm https://www.jetbrains.com/pycharm/download/

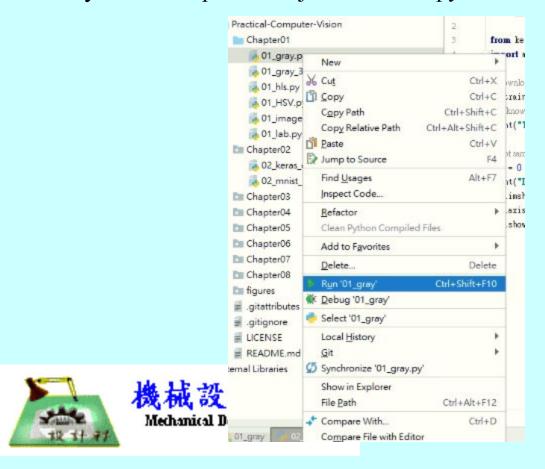




Settings X Project: pycharm > Project Structure For current project > Appearance & Behavior Mark as: Sources Excluded C:\wujeng\computervision\python\pycharm + Add Content Root Keymap idea .idea C:\wujeng\computervision\python\pycharm > Editor ✓ Practical-Computer-Vision Source Folders Plugins Chapter01 Practical-Computer-Vision\Chapter01 × > Version Control 13 Chapter02 Practical-Computer-Vision × Project: pycharm 0 Chapter03 Project Interpreter 6 Chapter04 Chapter05 Chapter06 > Build, Execution, Deployment Chapter07 > Languages & Frameworks Chapter08 > Tools in figures Exclude files: Use; to separate name patterns, * for any number of symbols, ? for one. OK Cancel

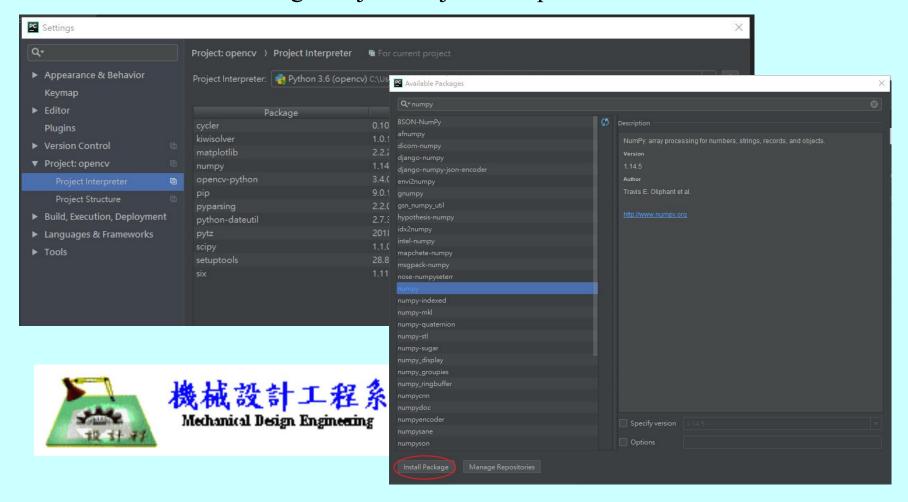


2. 安裝 PyCharm https://www.jetbrains.com/pycharm/download/





5.安裝程式庫 File/Settings/Project/Project Interpreter





5.安裝程式庫

NumPy
Matplotlib
SciPy
opency-phthon
tensorflow
keras





節例

```
https://github.com/opencv/opencv (C++, Python, Java, JavaScript)
https://github.com/spmallick/learnopency (C++, Python)
https://github.com/makelove/OpenCV-Python-Tutorial (Python)
https://github.com/PacktPublishing/OpenCV-3-x-with-Python-By-Example (Python)
https://github.com/abidrahmank/OpenCV2-Python-Tutorials (python)
https://github.com/oreillymedia/Learning-OpenCV-3 examples (C++)
https://github.com/techfort/pycv (Python)
https://github.com/sightmachine/SimpleCV (Python)
https://github.com/JavaOpenCVBook/code (Java)
https://github.com/TadasBaltrusaitis/OpenFace
```

http://livecv.dinusv.com/

https://cv-tricks.com/

https://github.com/ocornut/imgui

https://github.com/swistakm/pyimgui

Pycharm 設定執行命令參數



