

Bioinformatics

wk01 TA hours

Supplementary

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Part 1

課程GITHUB連結

Star this repo first!



https://github.com/Kaminyou/TJHZC_Bioinformatics

Part 2

詳細環境建置

詳細環境建置

至下方網址下載Anaconda

Anaconda Installers

Windows 

通常你的電腦會是64位元，如果可能是32位元請先確認

Python 3.8

64-Bit Graphical Installer (466 MB)


32-Bit Graphical Installer (397 MB)

MacOS 

Python 3.8

64-Bit Graphical Installer (462 MB)

64-Bit Command Line Installer (454 MB)

Linux 

Python 3.8

64-Bit (x86) Installer (550 MB)

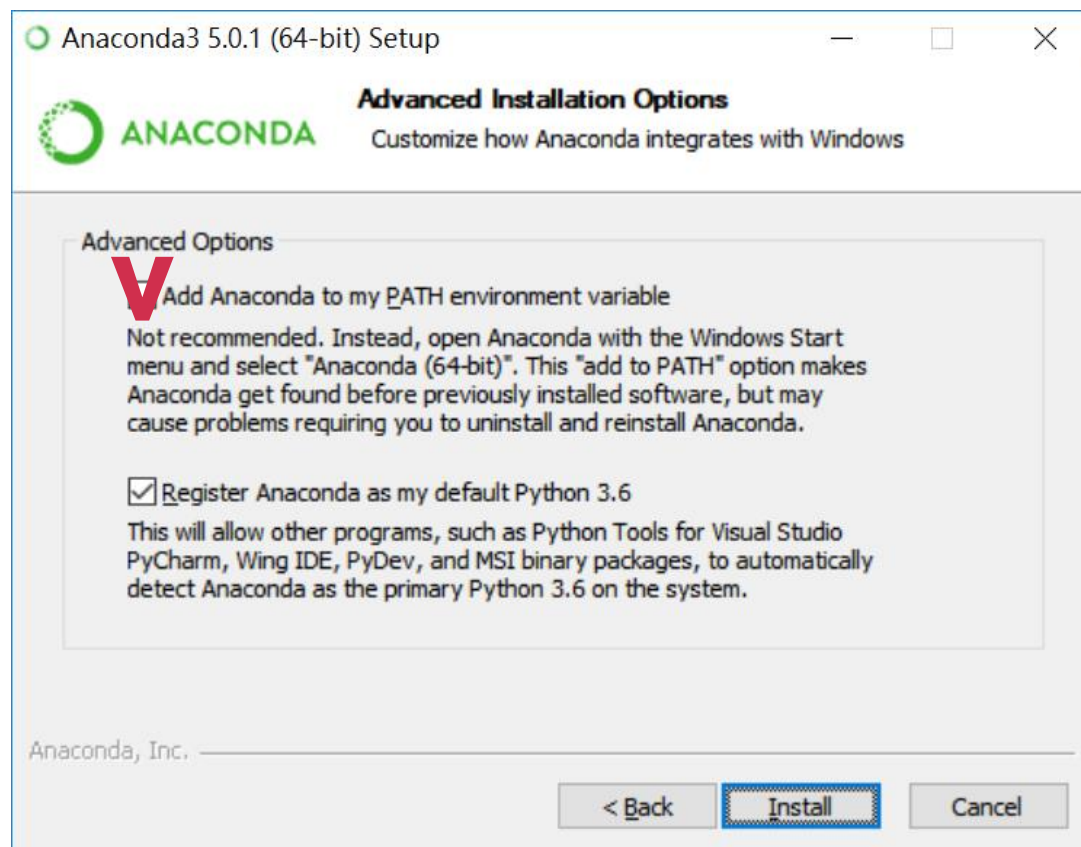
64-Bit (Power8 and Power9) Installer (290 MB)

<https://www.anaconda.com/products/individual>

環境建置

下載後直接點及安裝

不管什麼都next或accept，除了這邊要記得打勾!!! 一切就能很順利安裝完了



詳細環境建置

開啟jupyter notebook

開啟你的終端機(通常是按下windows鍵輸入cmd，還是不知道怎麼開請google “windows終端機”)
接著輸入 jupyter notebook 後按enter

 命令提示字元

```
Microsoft Windows [版本 10.0.18362.1082]  
(c) 2019 Microsoft Corporation. 著作權所有，並保留一切權利。  
C:\Users\User>jupyter notebook
```

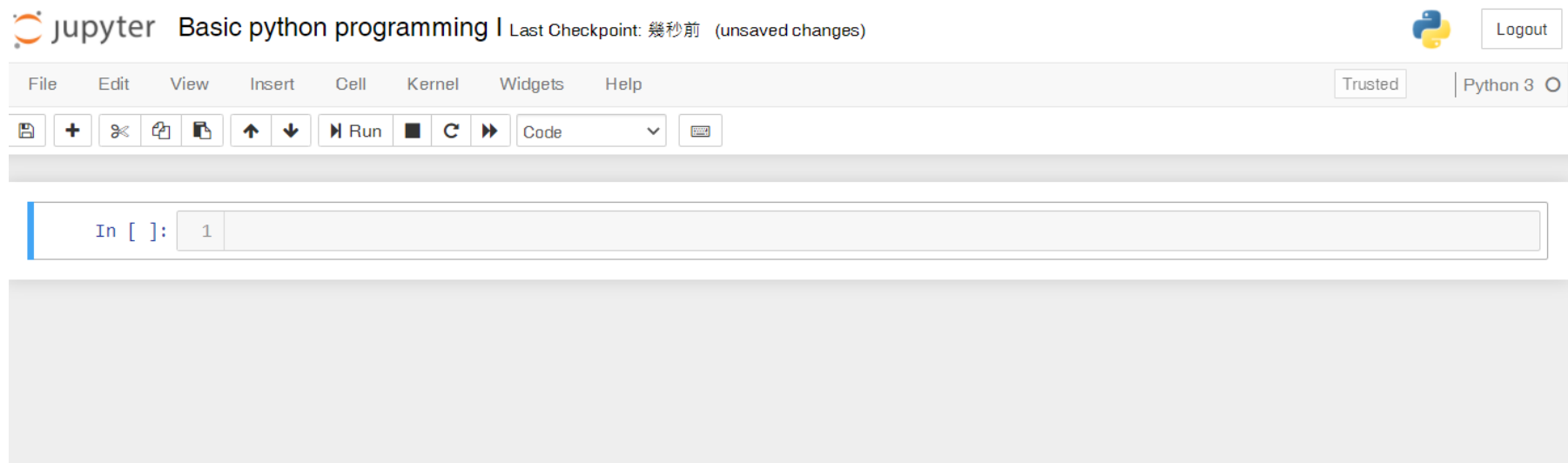

詳細環境建置 Jupyter notebook



詳細環境建置

Jupyter notebook

開起來後的樣子



詳細環境建置 如何開github中的.ipynb

The screenshot shows the GitHub interface for the repository 'Kaminyou / TJHZC_Bioinformatics'. The repository is on the 'master' branch, has 1 branch and 0 tags. The file list shows a folder '0x01' and a file 'README.md'. A red arrow points from a text box to the 'Download ZIP' button in the 'Code' dropdown menu.

Kaminyou / TJHZC_Bioinformatics

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags

Kaminyou fix small bug

0x01 <add> simple version

README.md fix small bug

點它，下載整個資料夾並解壓縮到你想要它放置的位置 e.g. 桌面

TJHZC_Bioinformatics

Go to file Add file Code

Clone

HTTPS SSH GitHub CLI

https://github.com/Kaminyou/TJHZC_Bioinformatics

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

詳細環境建置 如何開github中的.ipynb



jupyter

Files Running Clusters

Select items to perform actions on them.

Quit Logout

Upload New ↕

Name ↓ Last Modified File size

幾秒前

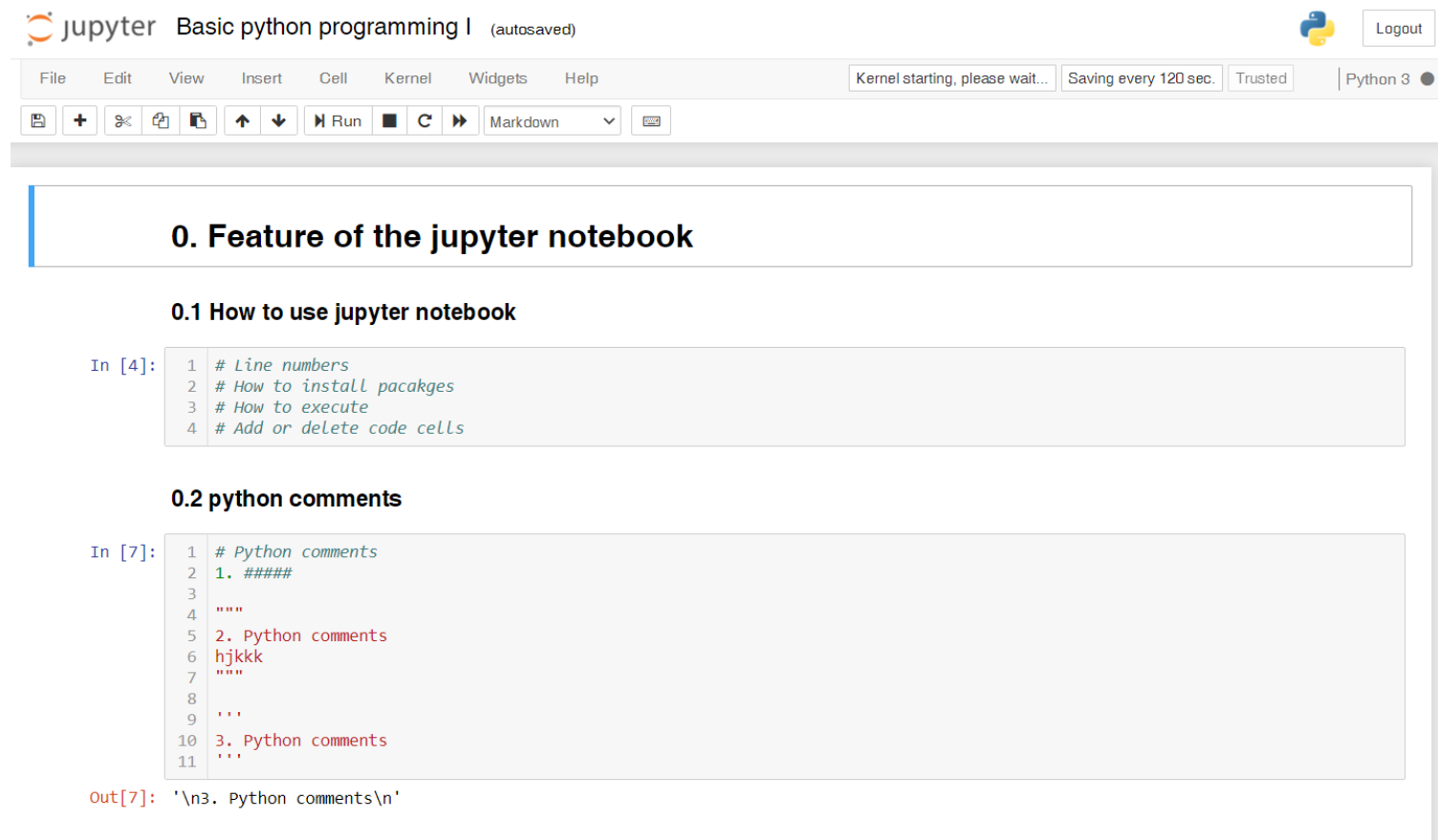
4 小時前 29.4 kB

Basic python programming I.ipynb

點下去就能開啟

切到放置的位置，如果解壓縮到桌面應該就會在這樣的路徑中

詳細環境建置 如何開github中的.ipynb



jupyter Basic python programming I (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Kernel starting, please wait... Saving every 120 sec. Trusted Python 3

0. Feature of the jupyter notebook

0.1 How to use jupyter notebook

In [4]:

```
1 # Line numbers
2 # How to install pacakges
3 # How to execute
4 # Add or delete code cells
```

0.2 python comments

In [7]:

```
1 # Python comments
2 1. #####
3
4 """
5 2. Python comments
6 hjkkk
7 """
8
9 '''
10 3. Python comments
11 '''
```

Out[7]: '\n3. Python comments\n'

去執行每一行code，更動看看
去了解怎麼樣的更動會發生甚麼事

重點並不是背下語法

而是知道有甚麼功能能用

語法忘記時再來這份查就好了!!

Part 3

如何完成作業1

如何完成作業1

.py要怎麼做出來?

Jupyter notebook -> .ipynb

Python -> .py

差別在於 .ipynb 是一個專門讓jupyter notebook開的檔案

想像一下你不會用excel去開docx.

.py可以當作就是.txt, 很純粹的文字檔!!!

如何完成作業1

範例code

可以先再jupyter notebook開一個cell練習，先確定你打的這些東西能執行(shift+enter)
在此附上code的架構(完全不一樣也沒關係，但是execute下去output要與要求一致)

```
In [ ]: 1 i = int(input("How many times: ")) # user's input
        2 if i
        3
        4 elif
        5
        6 else:
        7     for
        8
```

Try it

Try it

存成py

接著可以直接開記事本，貼上你這些code，存成.py檔



如何完成作業1

執行

開你的終端機，把路徑切到存檔的地方，執行python3 homework.py

 命令提示字元

```
Microsoft Windows [版本 10.0.18362.1082]  
(c) 2019 Microsoft Corporation. 著作權所有，並保留一切權利。
```

```
C:\Users\User>cd Desktop
```

cd: 進入資料夾的指令

```
C:\Users\User\Desktop>python3 homework.py
```

進到桌面後執行(如果你也是存在桌面)

Thank you

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