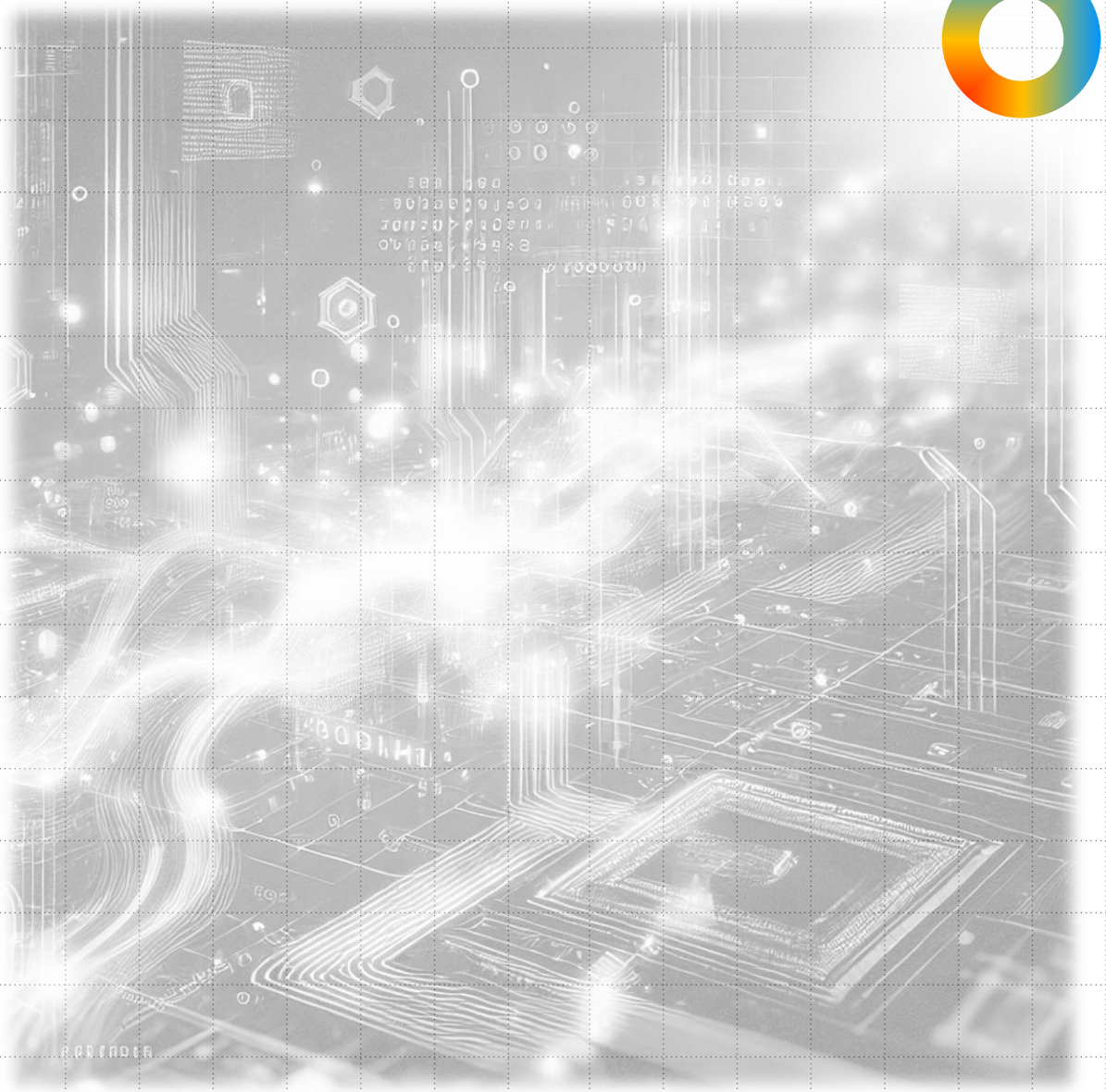
Python Programming

Environment Settings

Dr. Chun-Hsiang Chan
Department of Geography
National Taiwan Normal University

Outlines

- Anaconda Install
- Hello World
- Terminal/ Windows Powershell
- Git



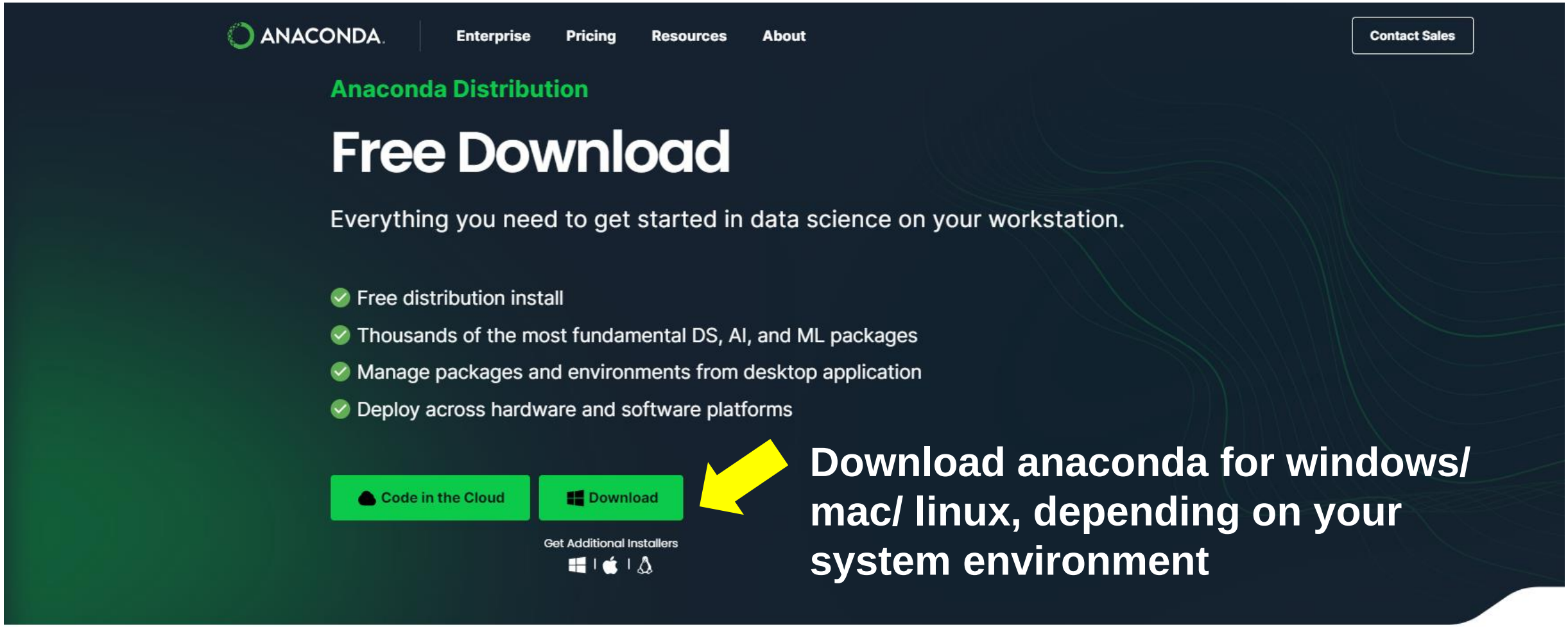
Download Anaconda

- We will use ipython notebook through out the course.
- Here is the download link: https://www.anaconda.com/download
- If your computer has no sufficient space for install anaconda, you may consider the light version – miniconda, as follows,

  https://docs.conda.io/projects/miniconda/en/latest/miniconda-install.html

Download Anaconda

- If you only have limited space for python, and then I suggest you may install the following software in order, python, pip, and jupyter.
- Python: https://www.python.org/downloads/
- pip: https://pip.pypa.io/en/stable/installation/
- Jupyter: https://jupyter.org/install



Open Source

Access the open-source software you need for projects in any field, from data visualization

User-friendly

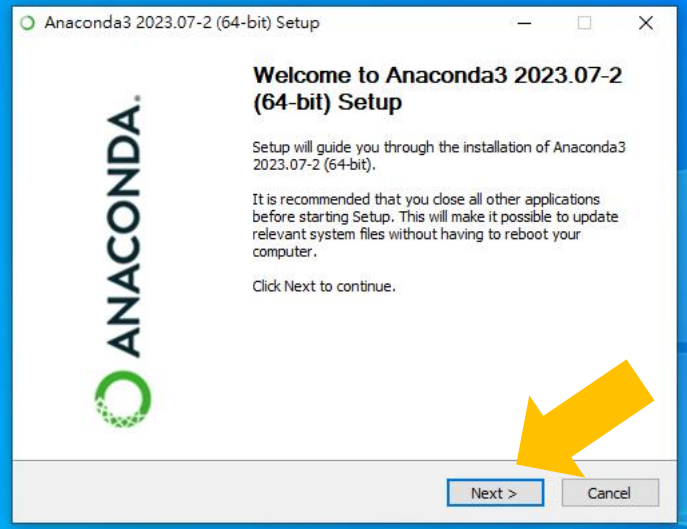
With our intuitive platform, you can easily search and install packages and create, load,

Trusted

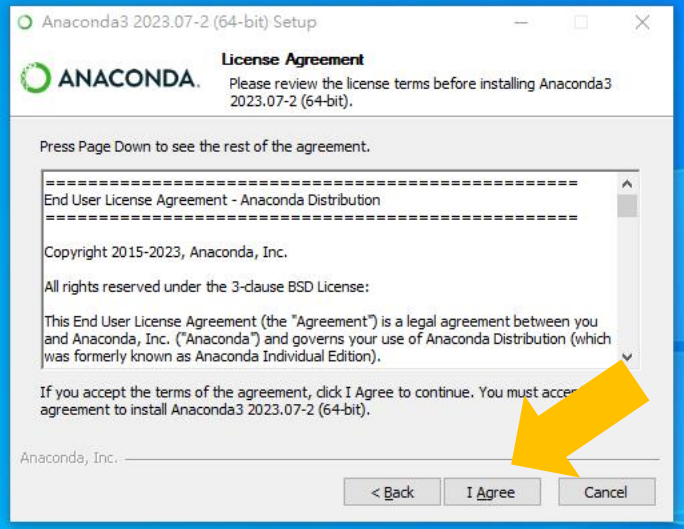
Our securely hosted packages and artifacts are methodically tested and regularly updated.

Hey! Welcome to Anaconda here to help. What are you look for today?

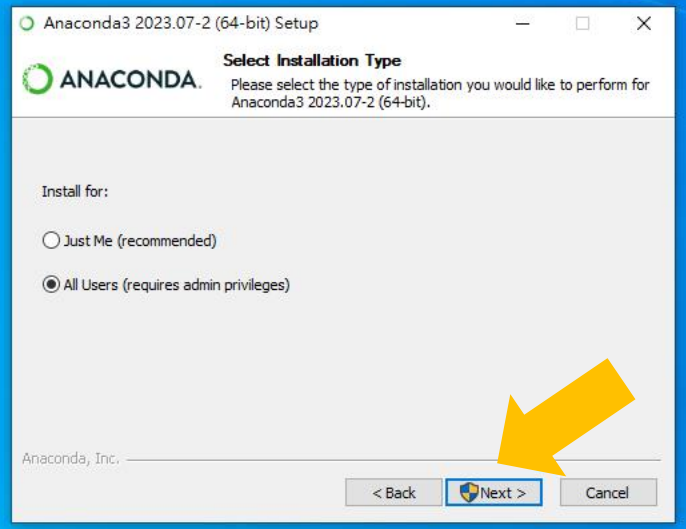
Open the .exe (by Run As Administrator/系統管理員) or .dmg files
Click Next



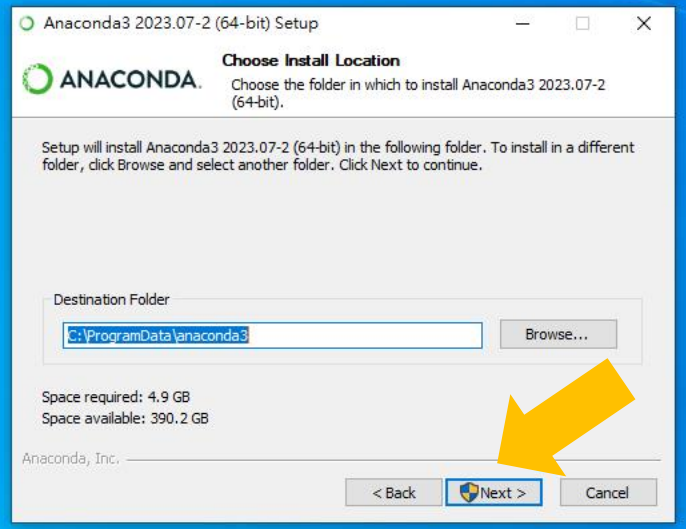
Click “I Agree”



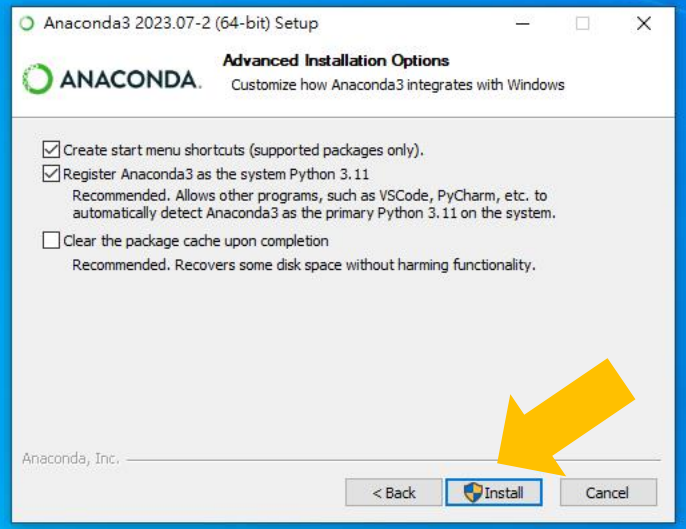
Click “Next”



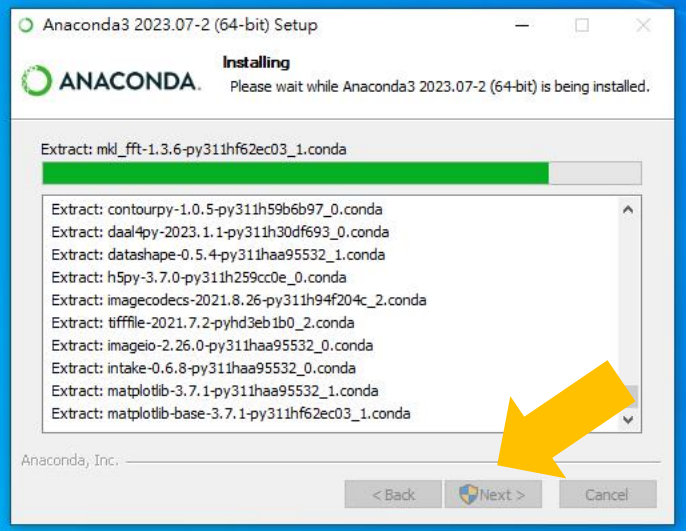
Click “Next”


Anaconda3 2023.07-2 (64-bit) Setup
ANACONDA.
Choose Install Location
Choose the folder in which to install Anaconda3 2023.07-2 (64-bit).
Setup will install Anaconda3 2023.07-2 (64-bit) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\ProgramData\anaconda3
Browse...
Space required: 4.9 GB
Space available: 390.2 GB
Anaconda, Inc.
< Back
Next >
Cancel

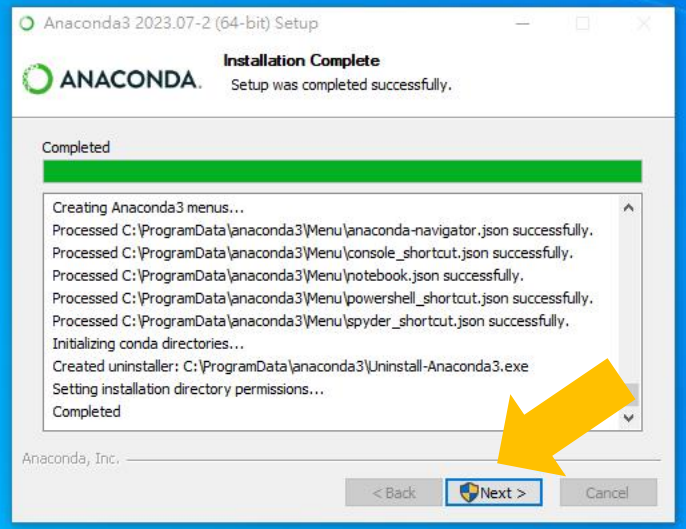
Click “Install”



Click “Next”



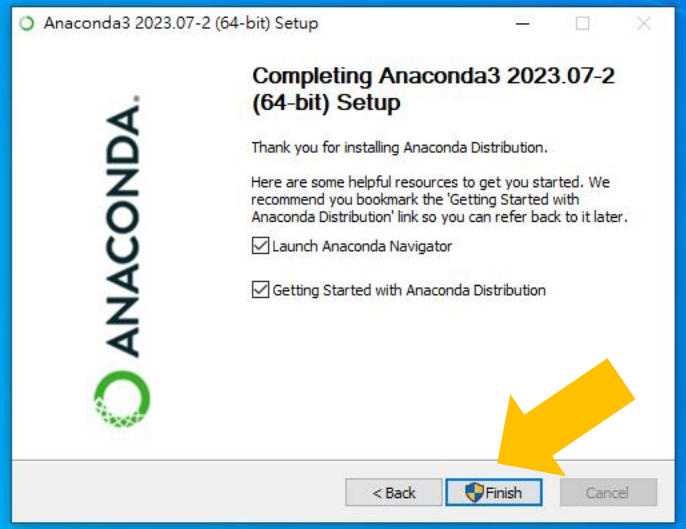
Click “Next”

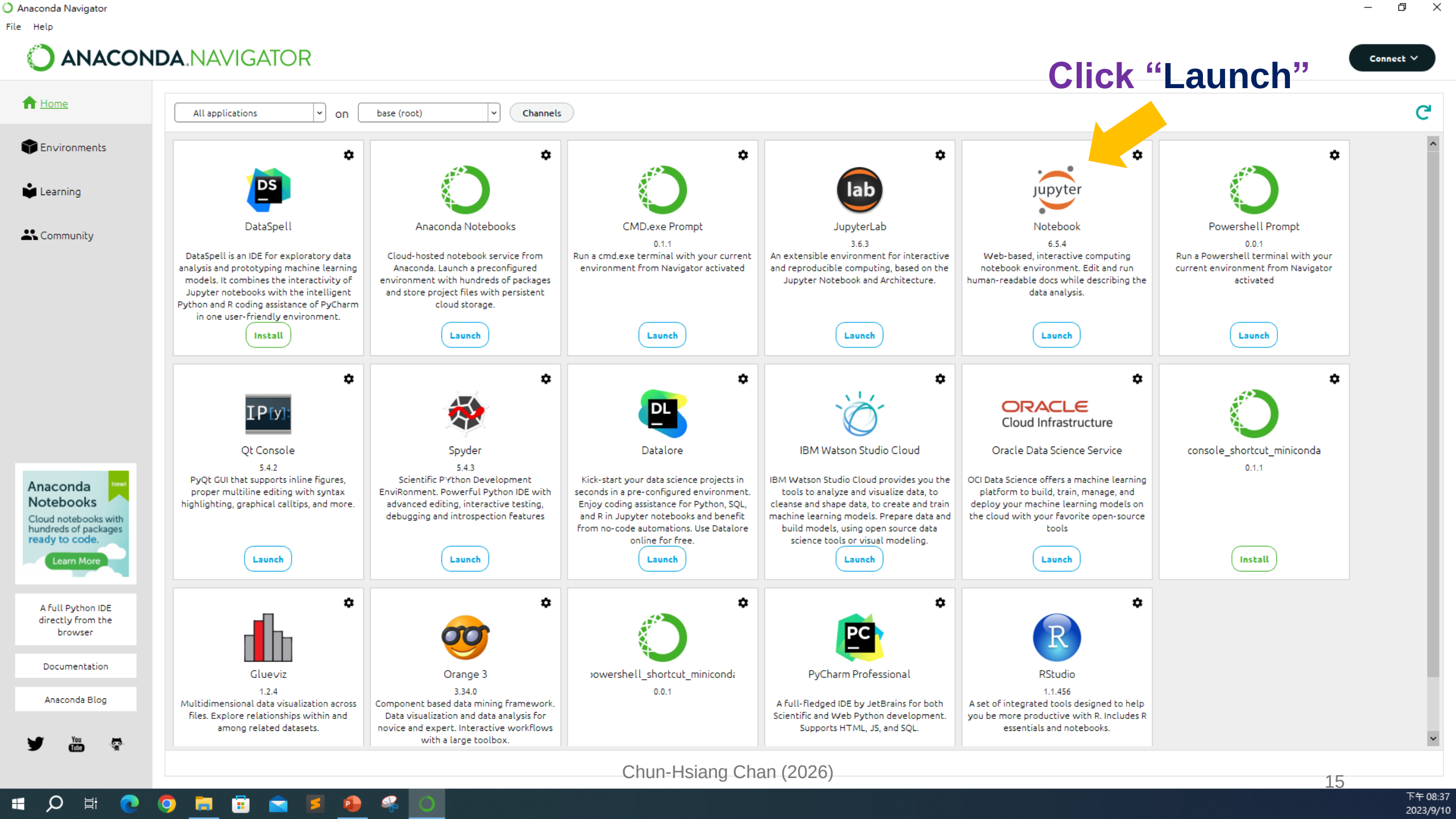


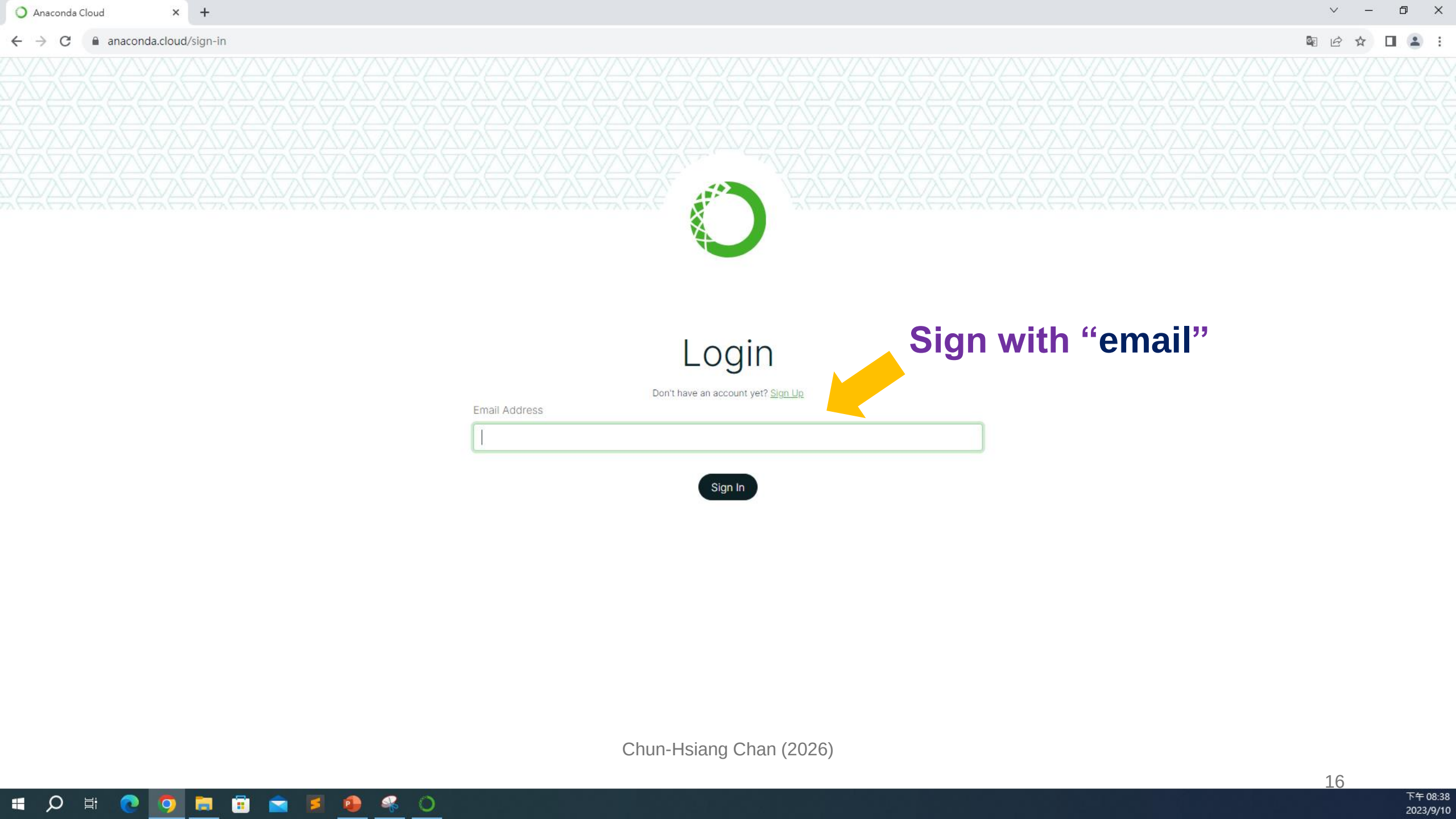
Click “Next”

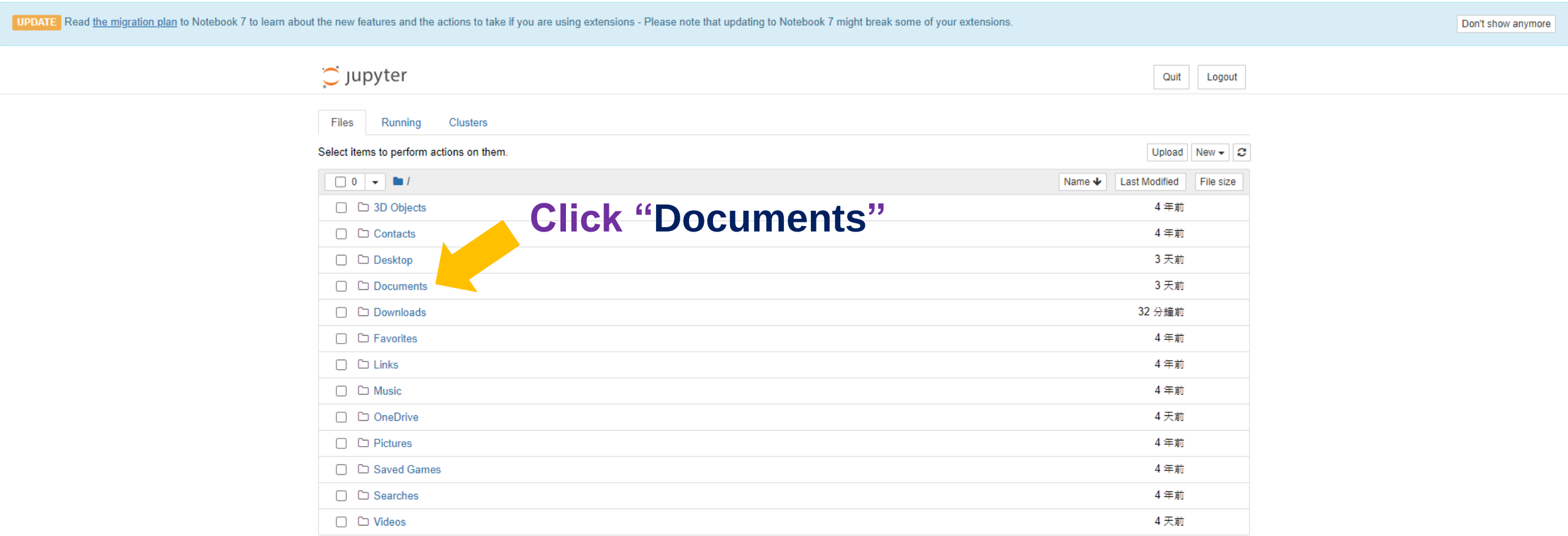

Anaconda3 2023.07-2 (64-bit) Setup
ANACONDA.
Anaconda3 2023.07-2 (64-bit)
Code with Anaconda in the Cloud
Everything you love about Anaconda now available from the cloud with Anaconda's fully-loaded Jupyter notebook.
No setup required. Get started for free.
Code in the cloud with Anaconda Notebooks
ANACONDA.
Anaconda, Inc.
< Back
Next >
Cancel

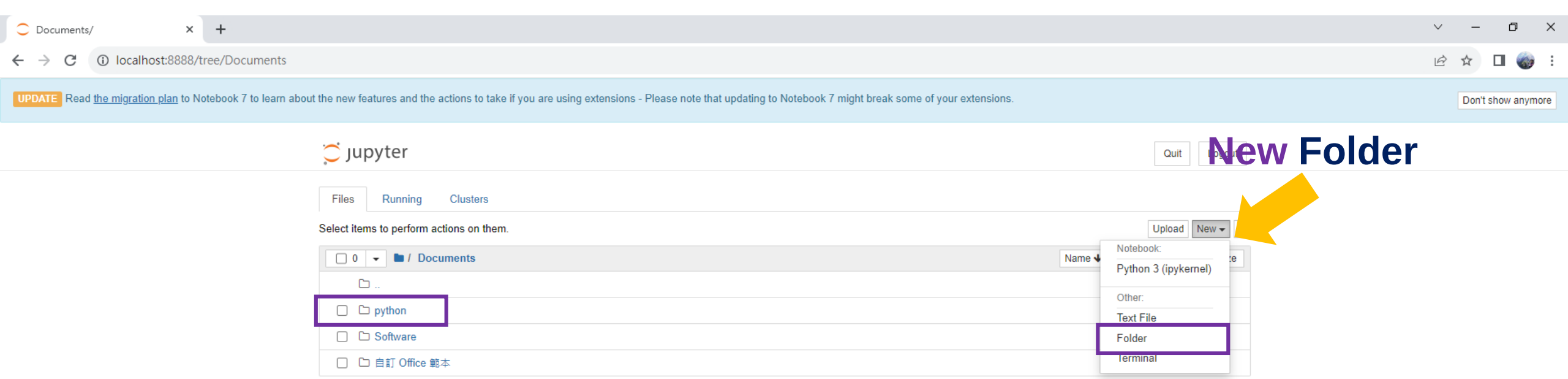
Click “Finish”



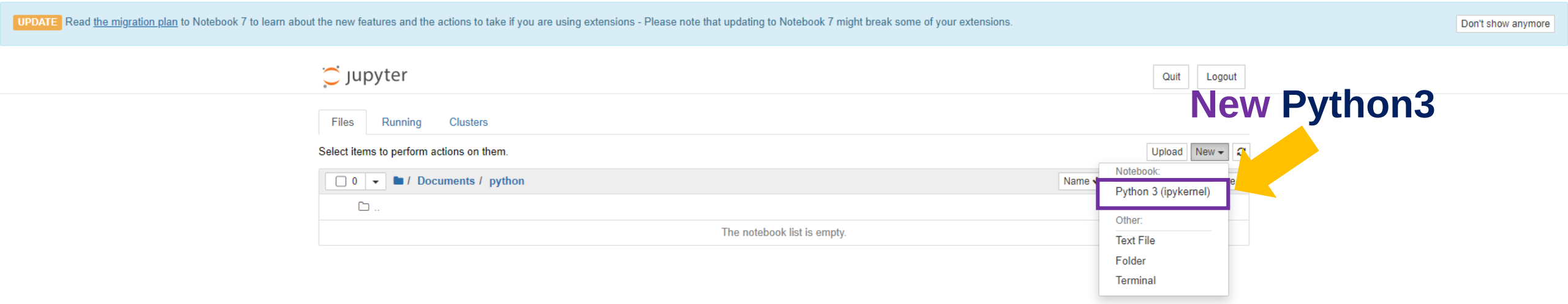

Anaconda Navigator
File Help
ANACONDA.NAVIGATOR
Connect
Click “Launch”
Home
Environments
Learning
Community
All applications
on
base (root)
Channels
DataSpell
DataSpell is an IDE for exploratory data analysis and prototyping machine learning models. It combines the interactivity of Jupyter notebooks with the intelligent Python and R coding assistance of PyCharm in one user-friendly environment.
Install
Anaconda Notebooks
Cloud-hosted notebook service from Anaconda. Launch a preconfigured environment with hundreds of packages and store project files with persistent cloud storage.
Launch
CMD.exe Prompt
0.1.1
Run a cmd.exe terminal with your current environment from Navigator activated
Launch
JupyterLab
3.6.3
An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.
Launch
Notebook
6.5.4
Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.
Launch
Powershell Prompt
0.0.1
Run a Powershell terminal with your current environment from Navigator activated
Launch
Qt Console
5.4.2
PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.
Launch
Spyder
5.4.3
Scientific PYthon Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features
Launch
Datalore
Kick-start your data science projects in seconds in a pre-configured environment. Enjoy coding assistance for Python, SQL, and R in Jupyter notebooks and benefit from no-code automations. Use Datalore online for free.
Launch
IBM Watson Studio Cloud
IBM Watson Studio Cloud provides you the tools to analyze and visualize data, to cleanse and shape data, to create and train machine learning models. Prepare data and build models, using open source data science tools or visual modeling.
Launch
Oracle Data Science Service
OCI Data Science offers a machine learning platform to build, train, manage, and deploy your machine learning models on the cloud with your favorite open-source tools
Launch
console_shortcut_miniconda
0.1.1
Install
Anaconda Notebooks
New!
Cloud notebooks with hundreds of packages ready to code.
Learn More
A full Python IDE directly from the browser
Documentation
Anaconda Blog
Glueviz
1.2.4
Multidimensional data visualization across files. Explore relationships within and among related datasets.
Orange 3
3.34.0
Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.
owershell_shortcut_minicond
0.0.1
PyCharm Professional
A full-fledged IDE by JetBrains for both Scientific and Web Python development. Supports HTML, JS, and SQL.
RStudio
1.1.456
A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.


Anaconda Cloud
anaconda.cloud/sign-in
Login
Don't have an account yet? Sign Up
Email Address
Sign In
Sign with “email”

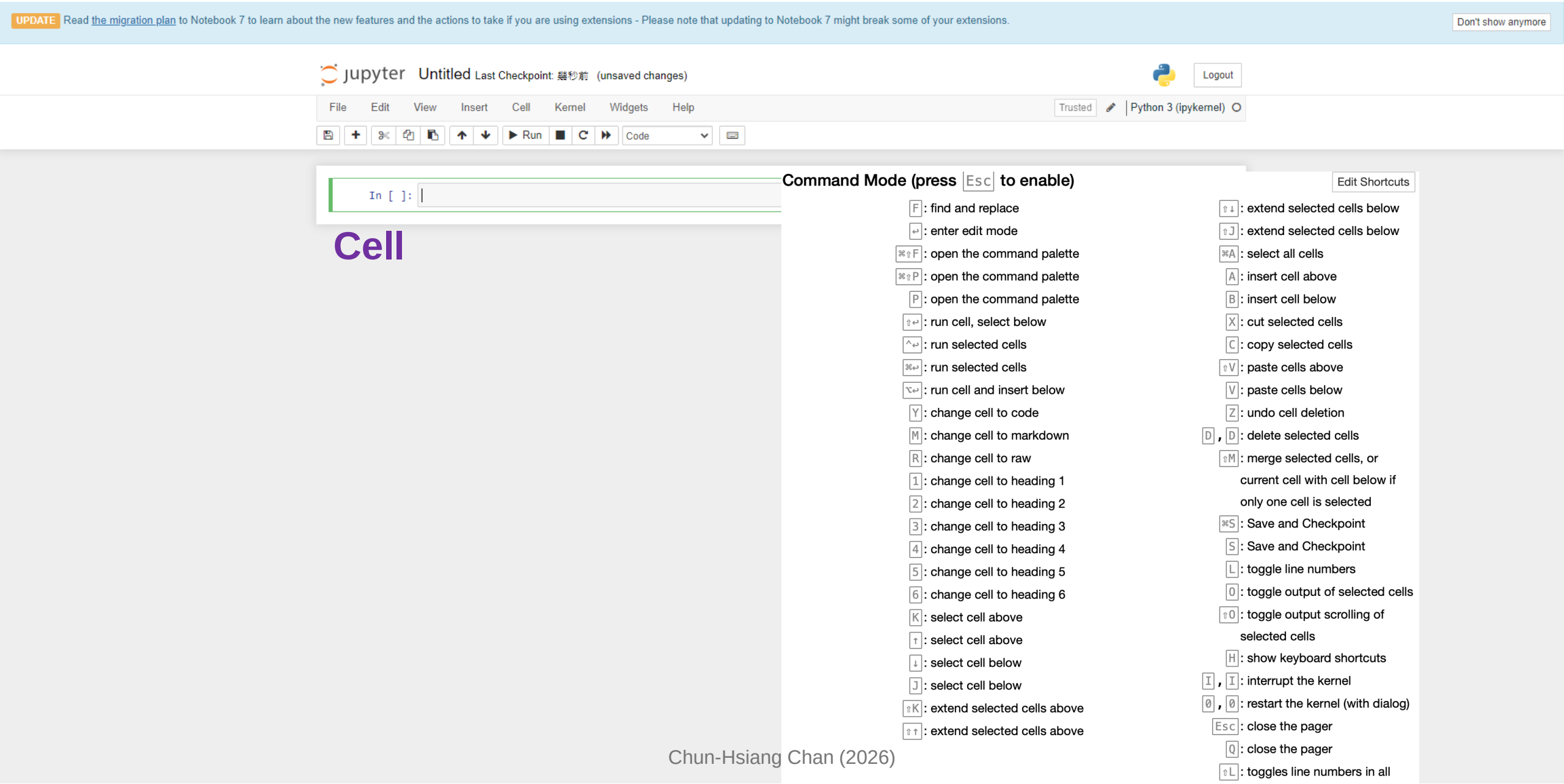

UPDATE Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions.
Don't show anymore
jupyter
Quit
Logout
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
0
/
Name
Last Modified
File size
3D Objects 4 年前
Contacts 4 年前
Desktop 3 天前
Documents 3 天前
Downloads 32 分鐘前
Favorites 4 年前
Links 4 年前
Music 4 年前
OneDrive 4 天前
Pictures 4 年前
Saved Games 4 年前
Searches 4 年前
Videos 4 天前
Click “Documents”


Documents/
localhost:8888/tree/Documents
UPDATE Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions.
Don't show anymore
jupyter
Quit
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
Notebook:
Python 3 (ipykernel)
Other:
Text File
Folder
Terminal
0
/ Documents
Name
..
python
Software
自訂 Office 範本

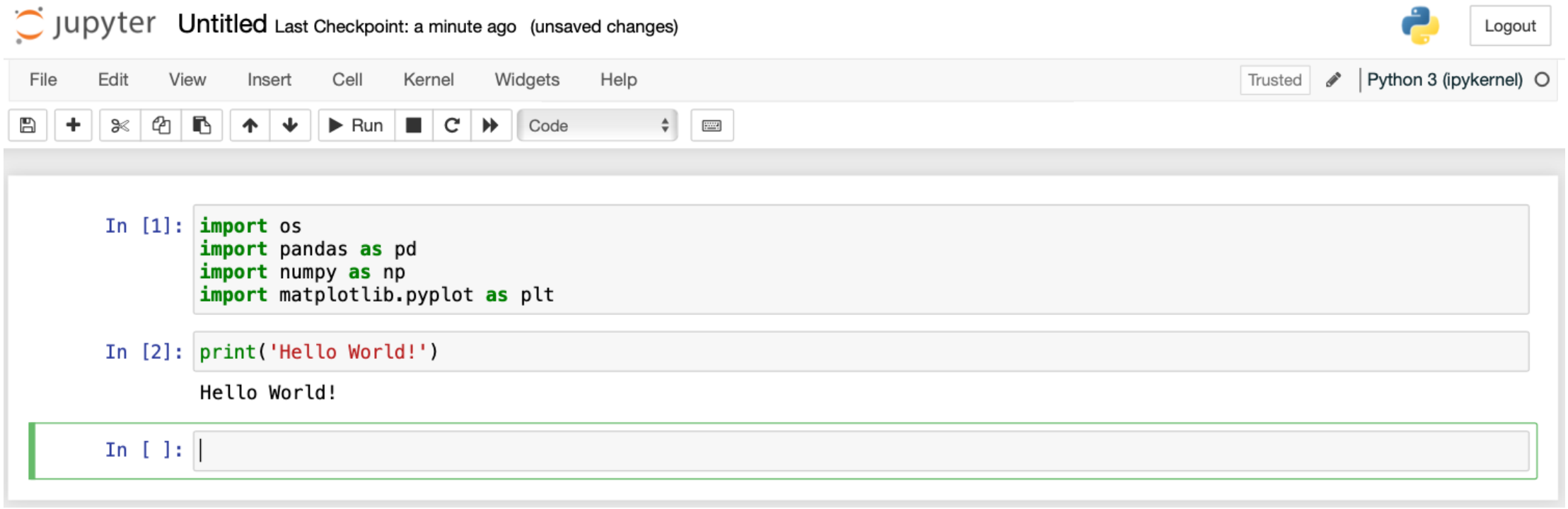
New Folder

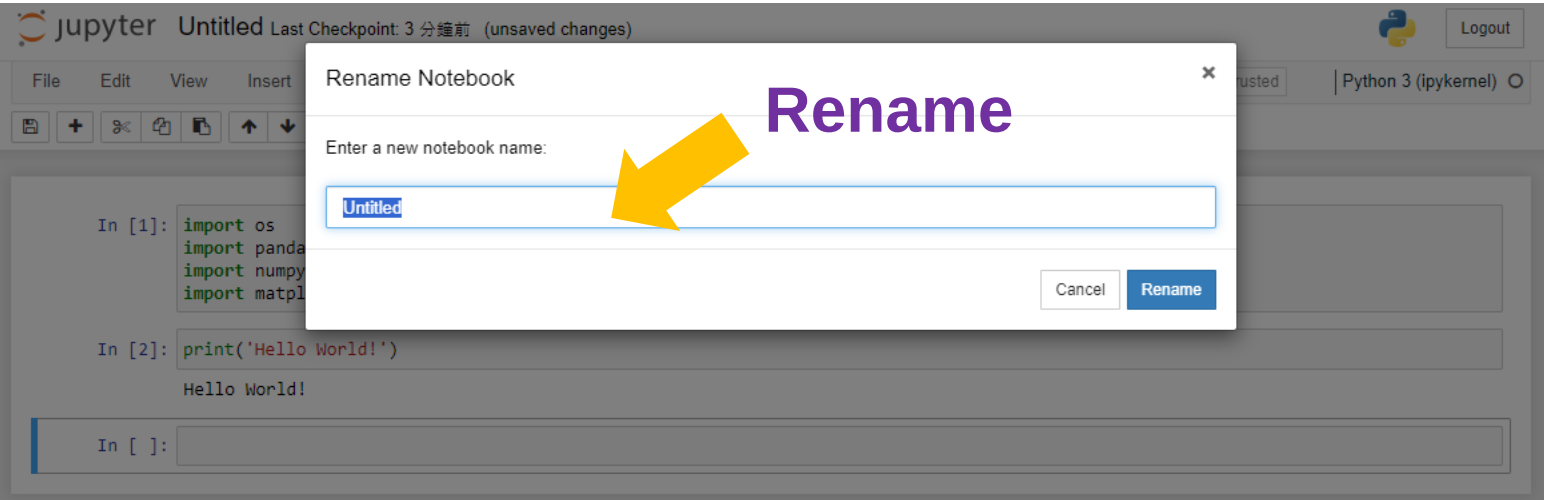

UPDATE Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions.
Don't show anymore
jupyter
Quit
Logout
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
0
/ Documents / python
Name
..
The notebook list is empty.
Notebook:
Python 3 (ipykernel)
Other:
Text File
Folder
Terminal

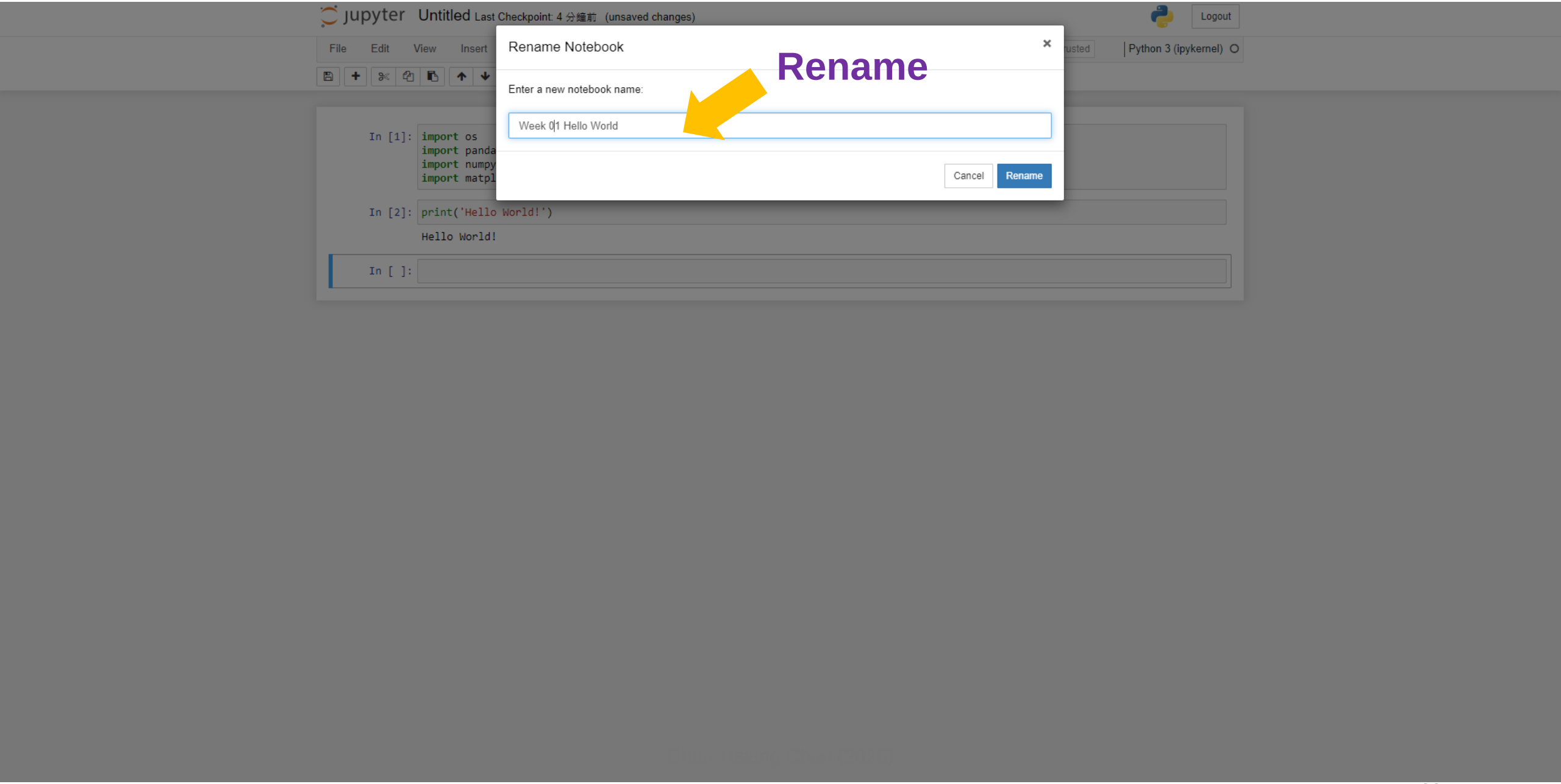
New Python3


UPDATE Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions.
Don't show anymore
jupyter Untitled Last Checkpoint: 幾秒前 (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [ ]:
Cell
Command Mode (press Esc to enable)
Edit Shortcuts
F : find and replace
↵ : enter edit mode
⌘⇧F : open the command palette
⌘⇧P : open the command palette
P : open the command palette
⇧↵ : run cell, select below
^↵ : run selected cells
⌘↵ : run selected cells
⌥↵ : run cell and insert below
Y : change cell to code
M : change cell to markdown
R : change cell to raw
1 : change cell to heading 1
2 : change cell to heading 2
3 : change cell to heading 3
4 : change cell to heading 4
5 : change cell to heading 5
6 : change cell to heading 6
K : select cell above
↑ : select cell above
↓ : select cell below
J : select cell below
⇧K : extend selected cells above
⇧↑ : extend selected cells above
⇧↓ : extend selected cells below
⇧J : extend selected cells below
⌘A : select all cells
A : insert cell above
B : insert cell below
X : cut selected cells
C : copy selected cells
⇧V : paste cells above
V : paste cells below
Z : undo cell deletion
D , D : delete selected cells
⇧M : merge selected cells, or current cell with cell below if only one cell is selected
⌘S : Save and Checkpoint
S : Save and Checkpoint
L : toggle line numbers
O : toggle output of selected cells
⇧O : toggle output scrolling of selected cells
H : show keyboard shortcuts
I , I : interrupt the kernel
0 , 0 : restart the kernel (with dialog)
Esc : close the pager
Q : close the pager
⇧L : toggles line numbers in all

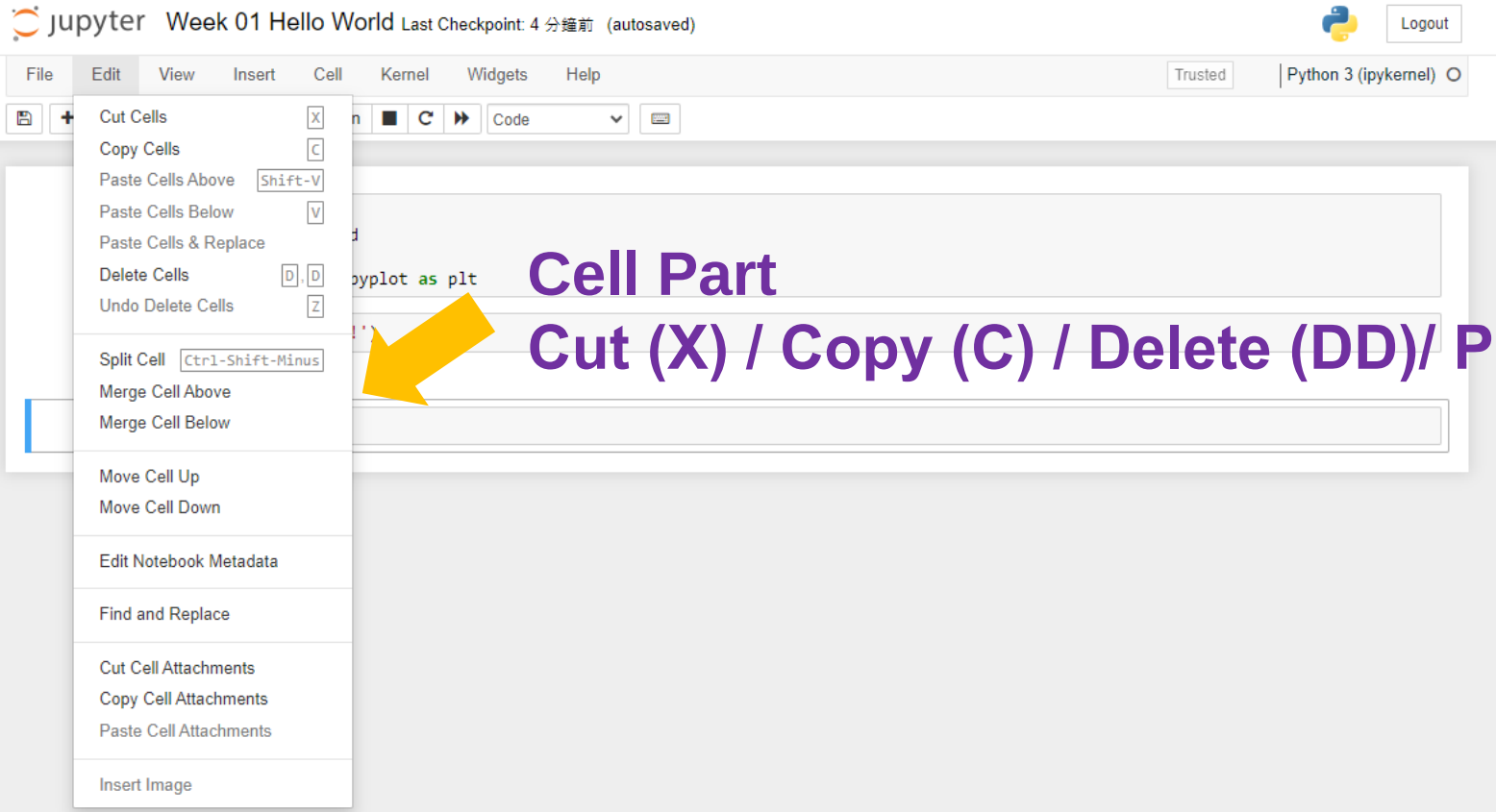
Hello World

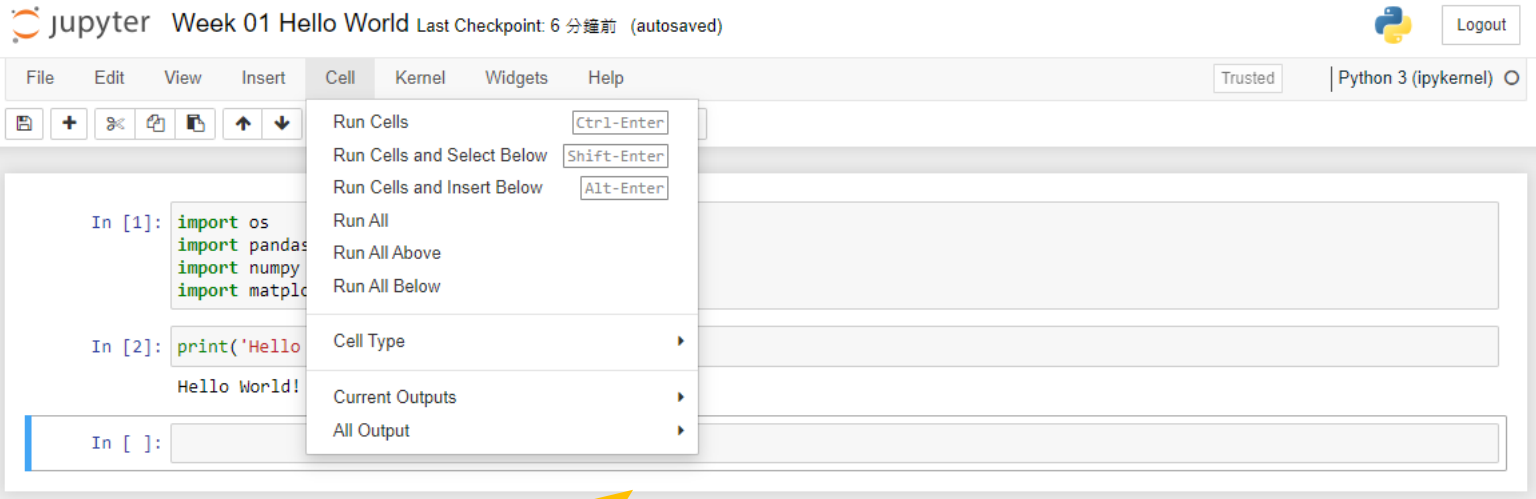

jupyter Untitled Last Checkpoint: a minute ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [1]:
import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
In [2]:
print('Hello World!')
Hello World!
In [ ]:


jupyter Untitled Last Checkpoint: 3 分鐘前 (unsaved changes)
Logout
File Edit View Insert
Python 3 (ipykernel)
Rename Notebook
Rename
Enter a new notebook name:
Untitled
Cancel
Rename
In [1]: import os
import panda
import numpy
import matpl
In [2]: print('Hello World!')
Hello World!
In [ ]:

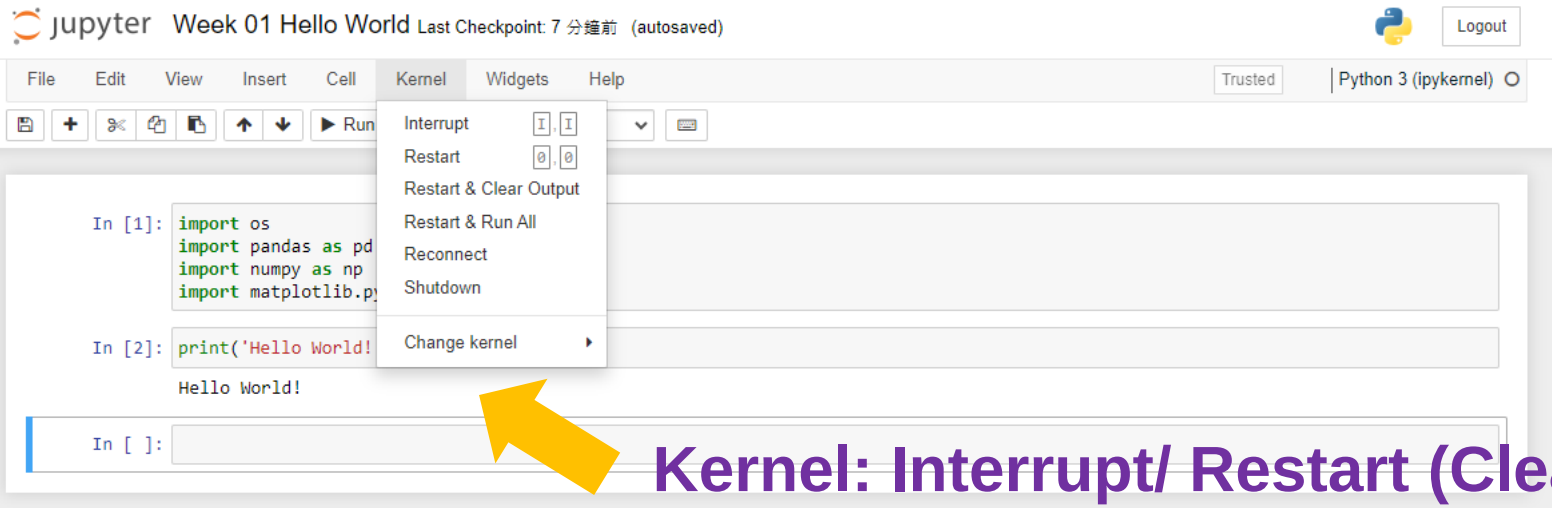

jupyter Untitled Last Checkpoint: 4 分鐘前 (unsaved changes)
Logout
File Edit View Insert
Python 3 (ipykernel)
Rename Notebook
Rename
Enter a new notebook name:
Week 01 Hello World
Cancel
Rename
In [1]: import os
import panda
import numpy
import matpl
In [2]: print('Hello World!')
Hello World!
In [ ]:


jupyter Week 01 Hello World Last Checkpoint: 4 分鐘前 (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
New Notebook
Open...
Make a Copy...
Save as...
Rename...
Save and Checkpoint Ctrl-S
Revert to Checkpoint
Print Preview
Download as
Trusted Notebook
Close and Halt
Run
as np
tlib.pyplot as plt
World!')
Open/ Save/ Copy/ Download
Download as … PDF / HTML / …

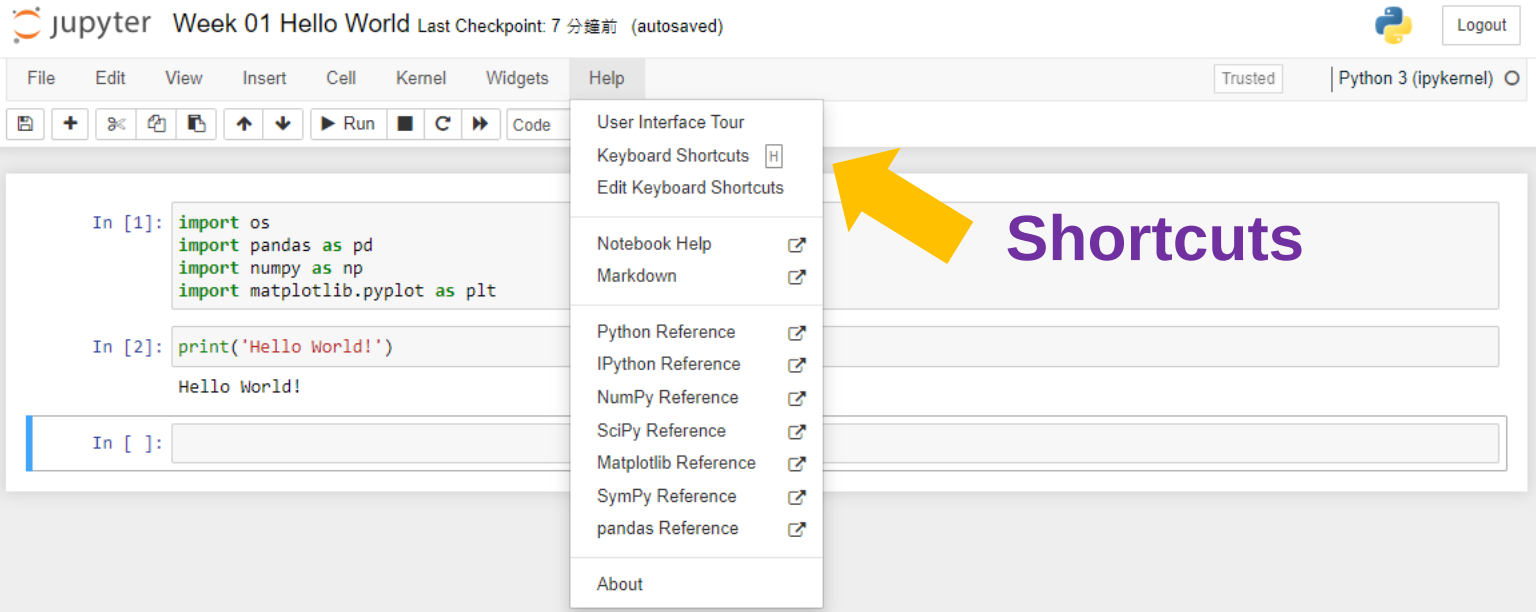

jupyter Week 01 Hello World Last Checkpoint: 4 分鐘前 (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Code
Cut Cells X
Copy Cells C
Paste Cells Above Shift-V
Paste Cells Below V
Paste Cells & Replace
Delete Cells D D
Undo Delete Cells Z
Split Cell Ctrl-Shift-Minus
Merge Cell Above
Merge Cell Below
Move Cell Up
Move Cell Down
Edit Notebook Metadata
Find and Replace
Cut Cell Attachments
Copy Cell Attachments
Paste Cell Attachments
Insert Image
yplot as plt
Cell Part
Cut (X) / Copy (C) / Delete (DD)/ Paste (V)/ …



Run Cell/ Run All (Above/ Below)



Kernel: Interrupt/ Restart (Clear/ All)/ Reconnect/ Shutdown


jupyter Week 01 Hello World Last Checkpoint: 7 分鐘前 (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
User Interface Tour
Keyboard Shortcuts H
Edit Keyboard Shortcuts
Notebook Help
Markdown
Python Reference
IPython Reference
NumPy Reference
SciPy Reference
Matplotlib Reference
SymPy Reference
pandas Reference
About
In [1]:
import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
In [2]:
print('Hello World!')
Hello World!
In [ ]:
Shortcuts

jupyter Week 01 Hello World Last Checkpoint: 1 分鐘前 (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted Python 3 (ipykernel)

Run Code

```
import matplotlib.pyplot as plt
```

In [2]:
```
print('Hello World!')
```
```
Hello World!
```

In [3]:
```
a = [0,1,2,3,4,5,6]
b = [2,4,6,8,10,11,12]
```

list

Run few codes for fun

In [4]:
```
print(a)
```
```
[0, 1, 2, 3, 4, 5, 6]
```

Print variable

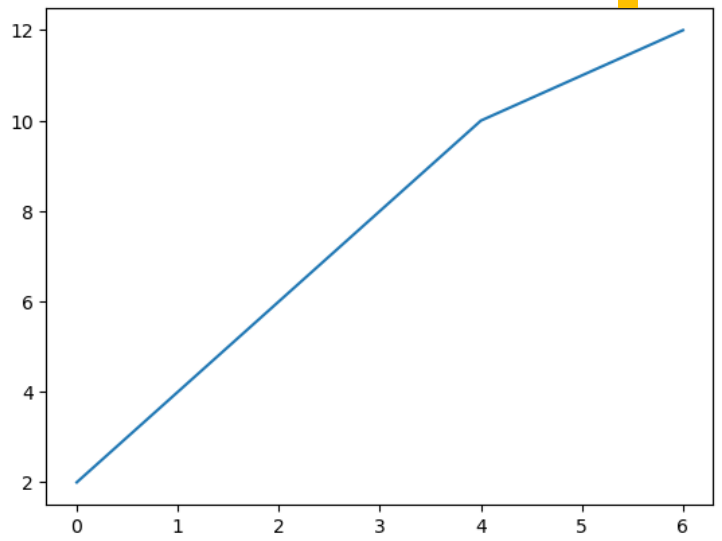
In [5]:
```
a
```

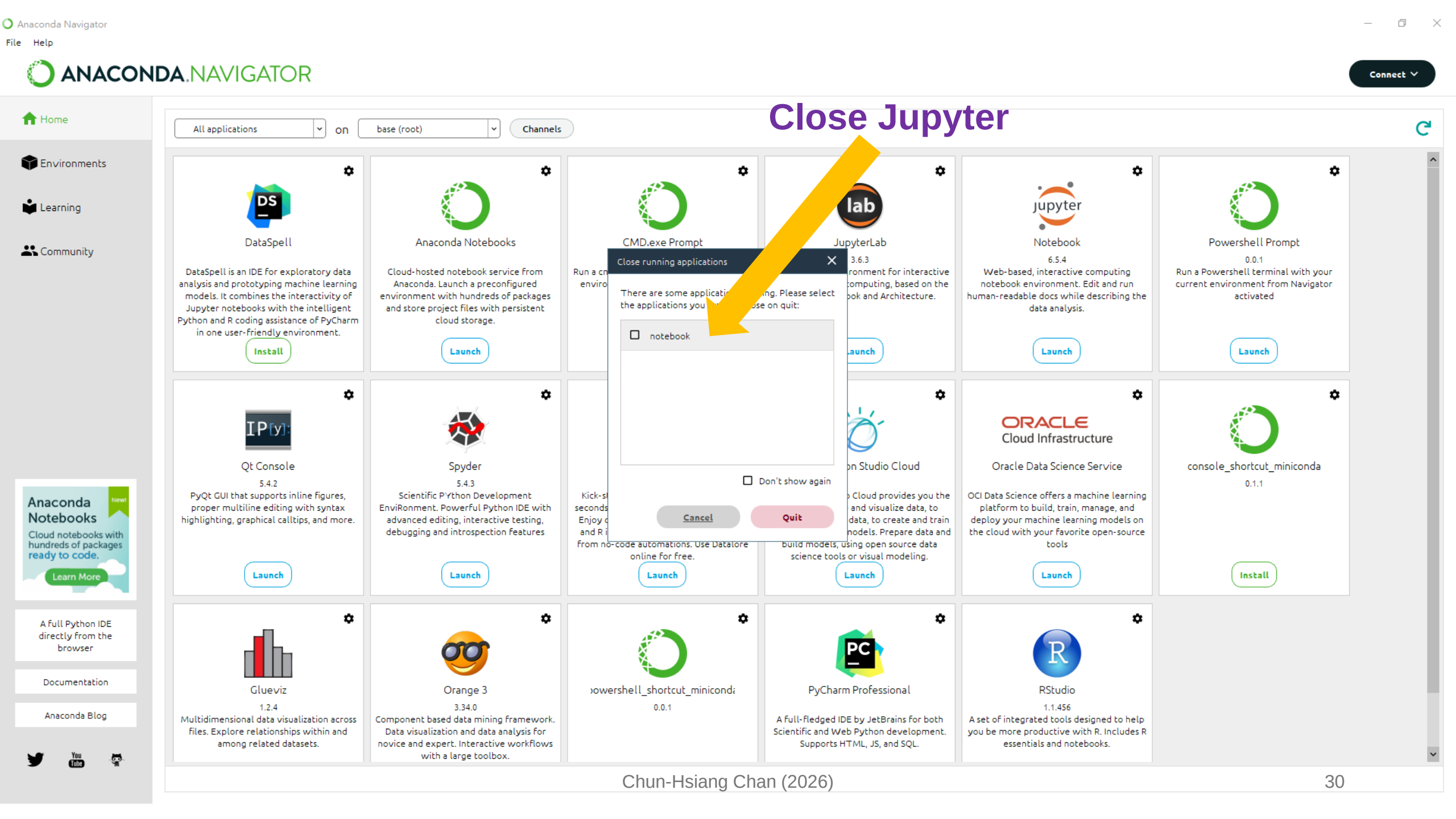
Out[5]:
```
[0, 1, 2, 3, 4, 5, 6]
```

View variable

In [6]:
```
plt.plot(a, b)
plt.show()
```

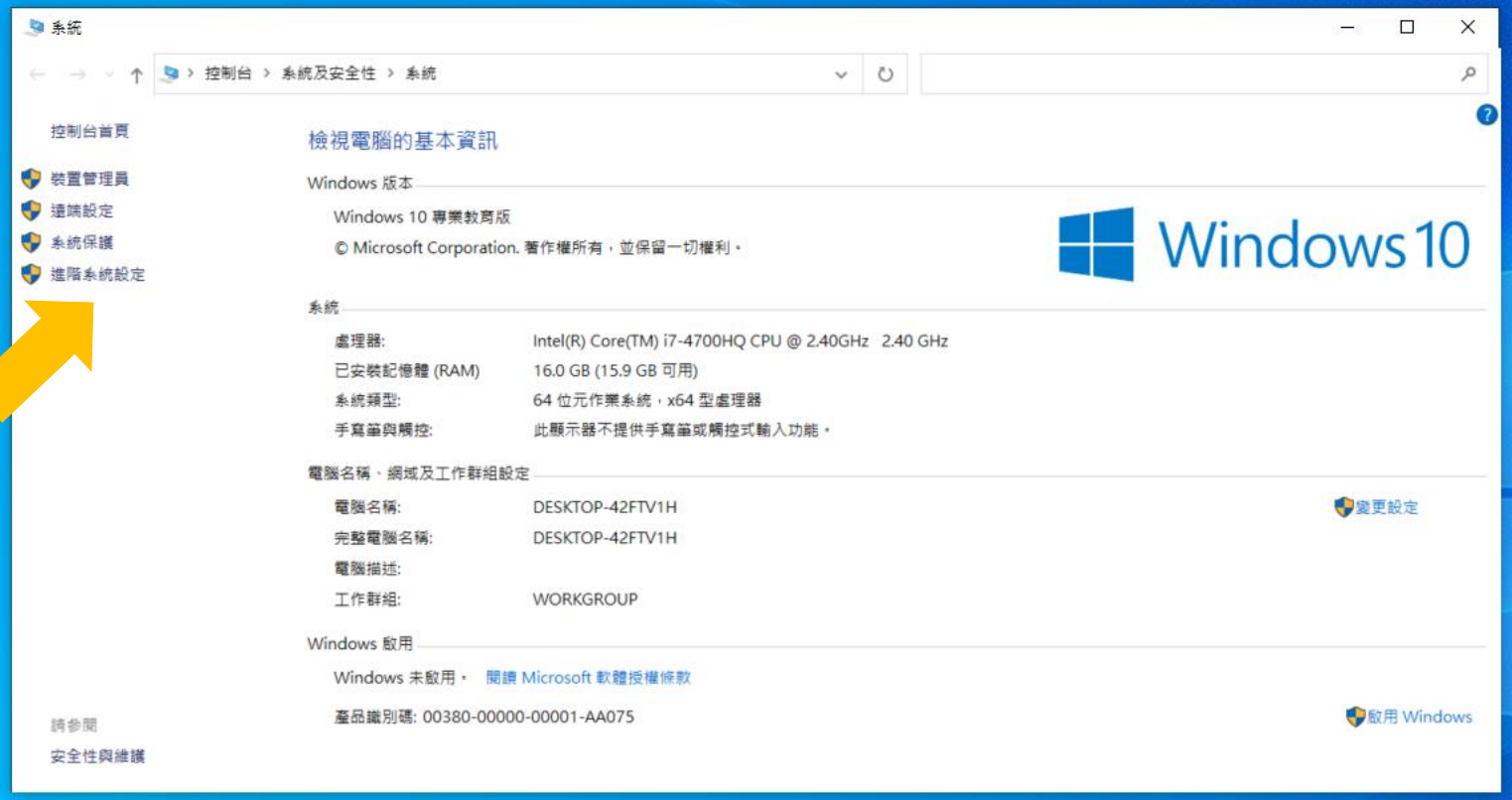
Plot variable

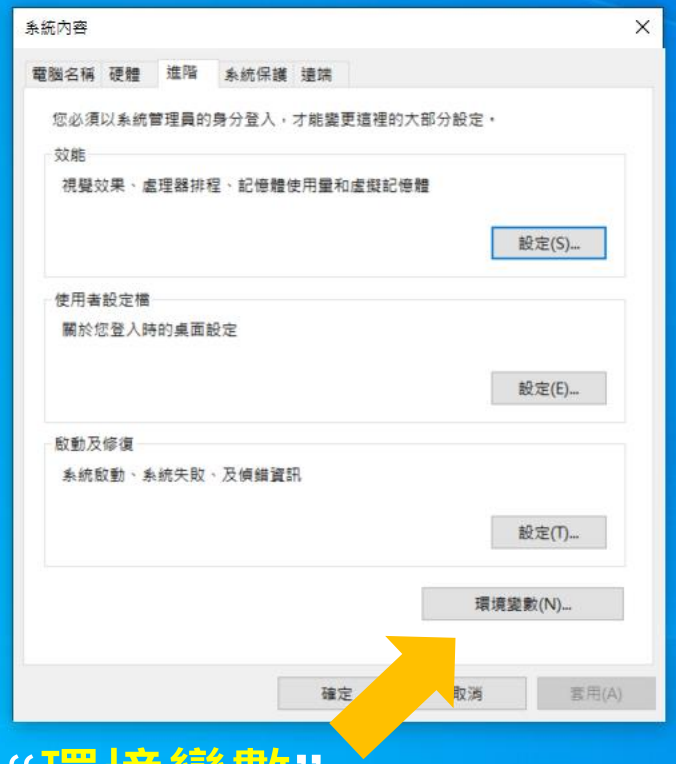



Anaconda Navigator
File Help
ANACONDA.NAVIGATOR
Connect
Home
Environments
Learning
Community
All applications
on
base (root)
Channels
Close Jupyter
DataSpell
DataSpell is an IDE for exploratory data analysis and prototyping machine learning models. It combines the interactivity of Jupyter notebooks with the intelligent Python and R coding assistance of PyCharm in one user-friendly environment.
Install
Anaconda Notebooks
Cloud-hosted notebook service from Anaconda. Launch a preconfigured environment with hundreds of packages and store project files with persistent cloud storage.
Launch
CMD.exe Prompt
Launch
JupyterLab
3.6.3
Launch
Notebook
6.5.4
Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.
Launch
Powershell Prompt
0.0.1
Run a Powershell terminal with your current environment from Navigator activated
Launch
Close running applications
There are some applicati ng. Please select the applications you se on quit:
notebook
Don't show again
Cancel
Quit
Qt Console
5.4.2
PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.
Launch
Spyder
5.4.3
Scientific PYthon Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features
Launch
Launch
n Studio Cloud
Launch
ORACLE Cloud Infrastructure
Oracle Data Science Service
OCI Data Science offers a machine learning platform to build, train, manage, and deploy your machine learning models on the cloud with your favorite open-source tools
Launch
console_shortcut_miniconda
0.1.1
Install
Anaconda Notebooks
Cloud notebooks with hundreds of packages ready to code.
Learn More
A full Python IDE directly from the browser
Documentation
Anaconda Blog
Glueviz
1.2.4
Multidimensional data visualization across files. Explore relationships within and among related datasets.
Orange 3
3.34.0
Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.
owershell_shortcut_minicond
0.0.1
PyCharm Professional
A full-fledged IDE by JetBrains for both Scientific and Web Python development. Supports HTML, JS, and SQL.
RStudio
1.1.456
A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.

The duration of opening anaconda for jupyter notebook is quite long. Here, we may open jupyter in terminal … but for windows users …

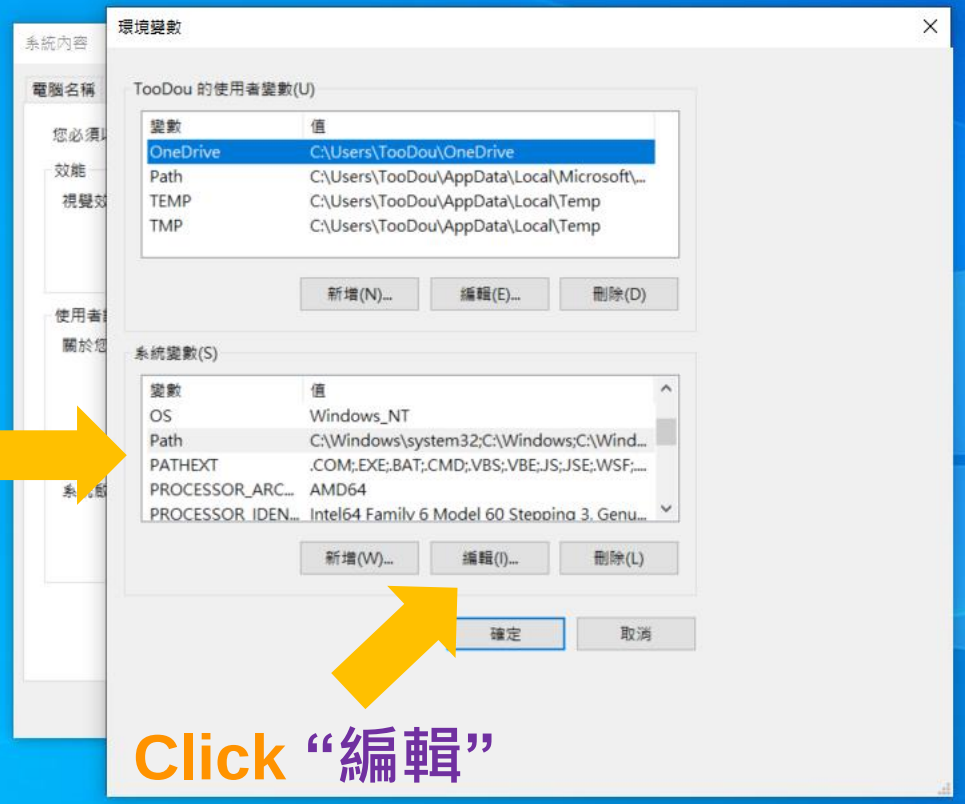
Set System Env





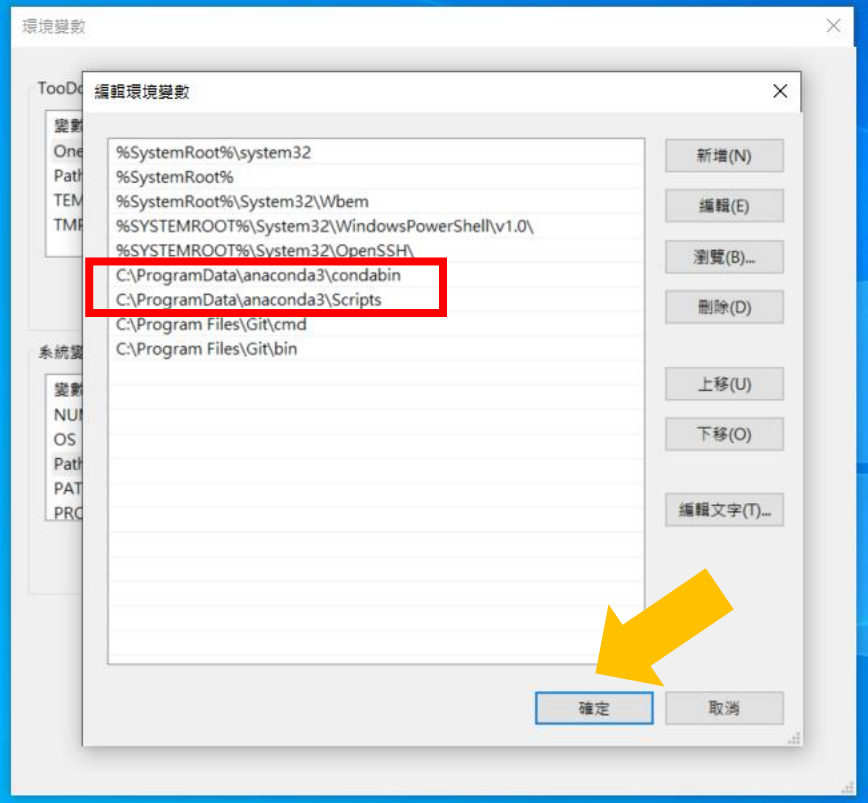
Click “環境變數”

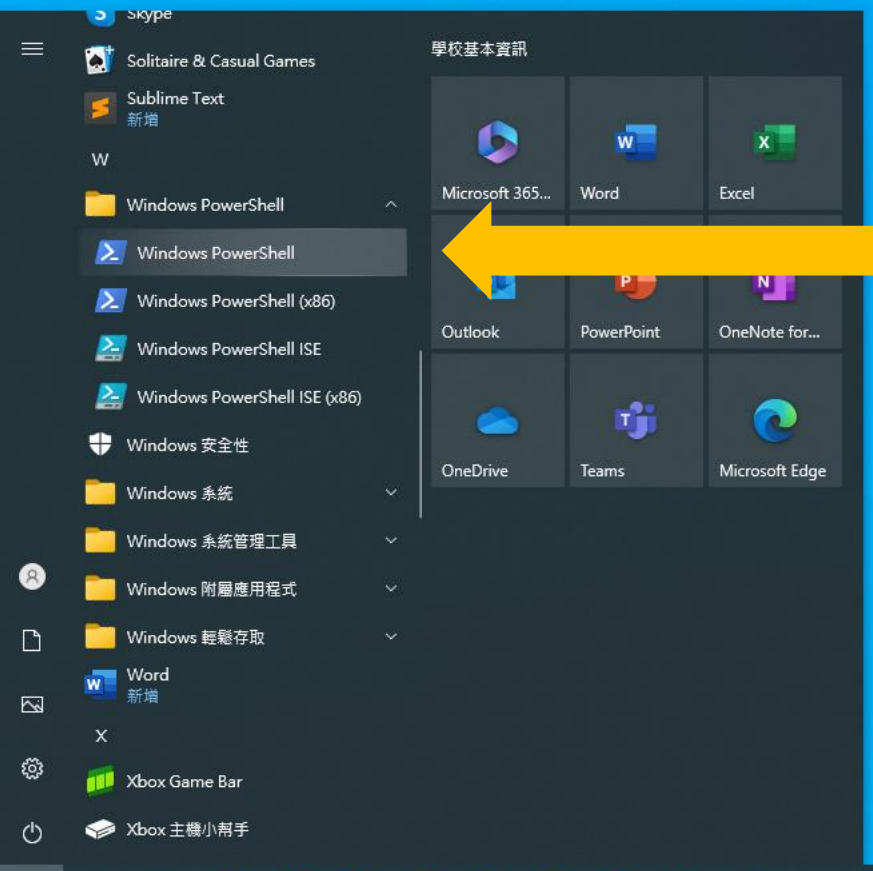
Select “Path”



Click “編輯”

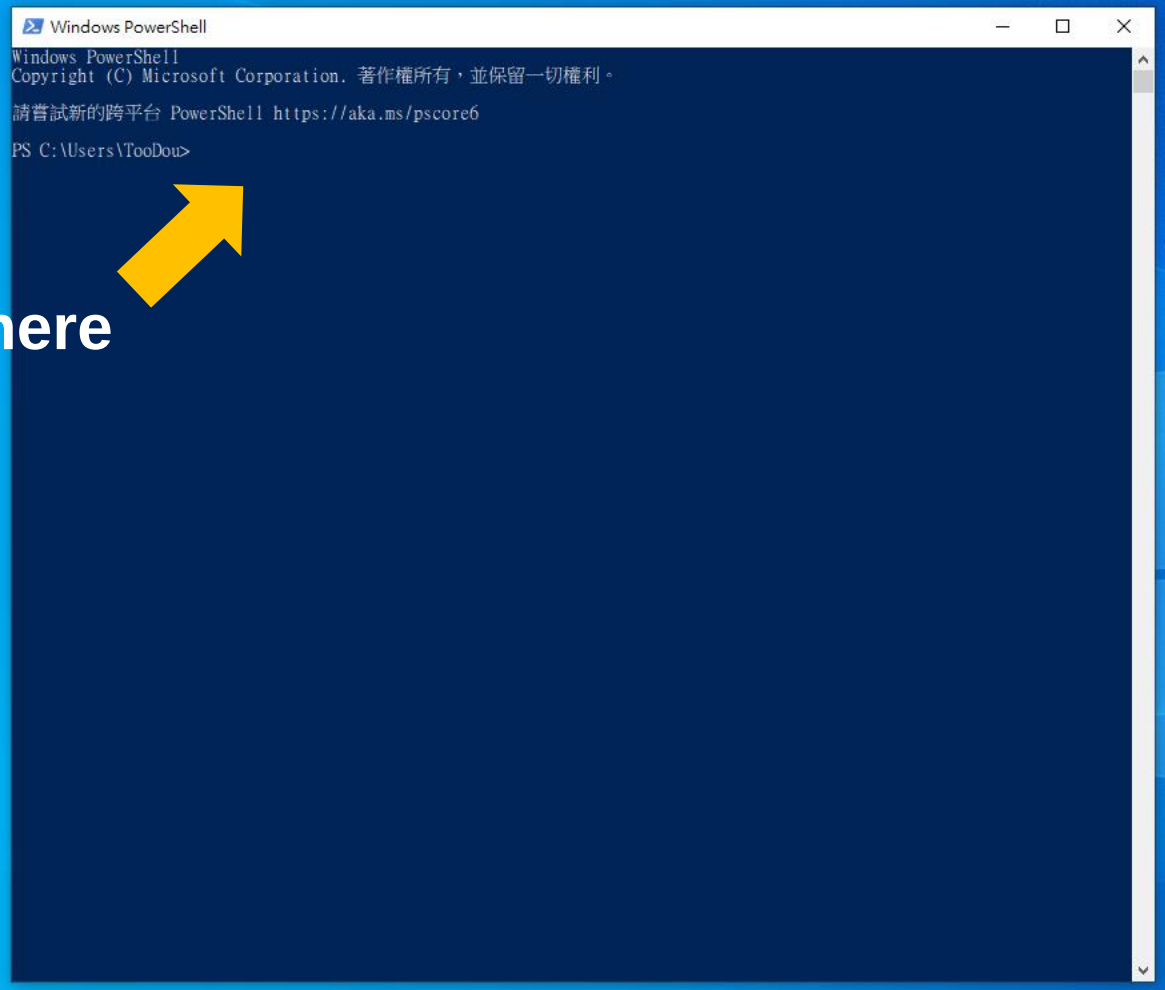
Set “環境變數” (environmental variables)

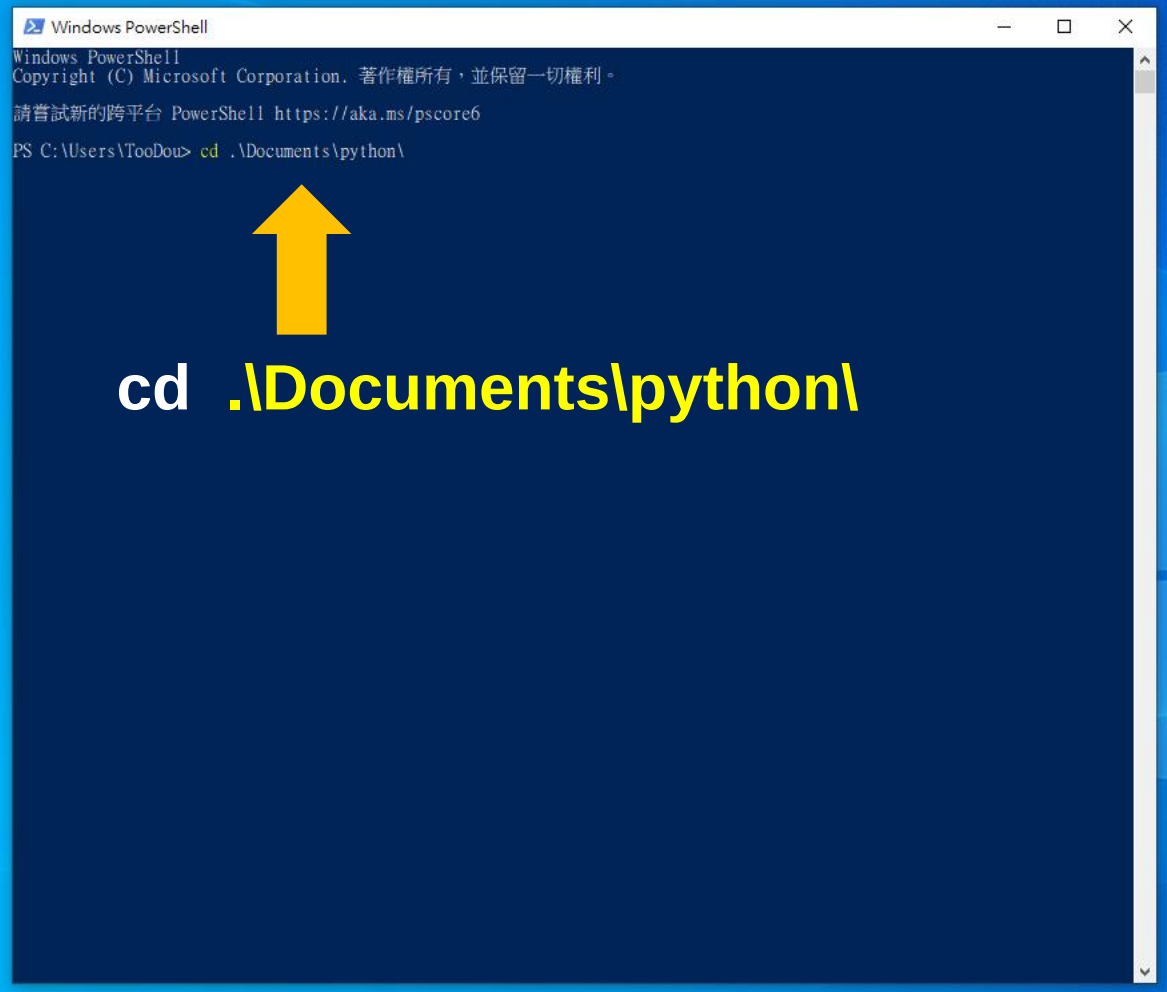


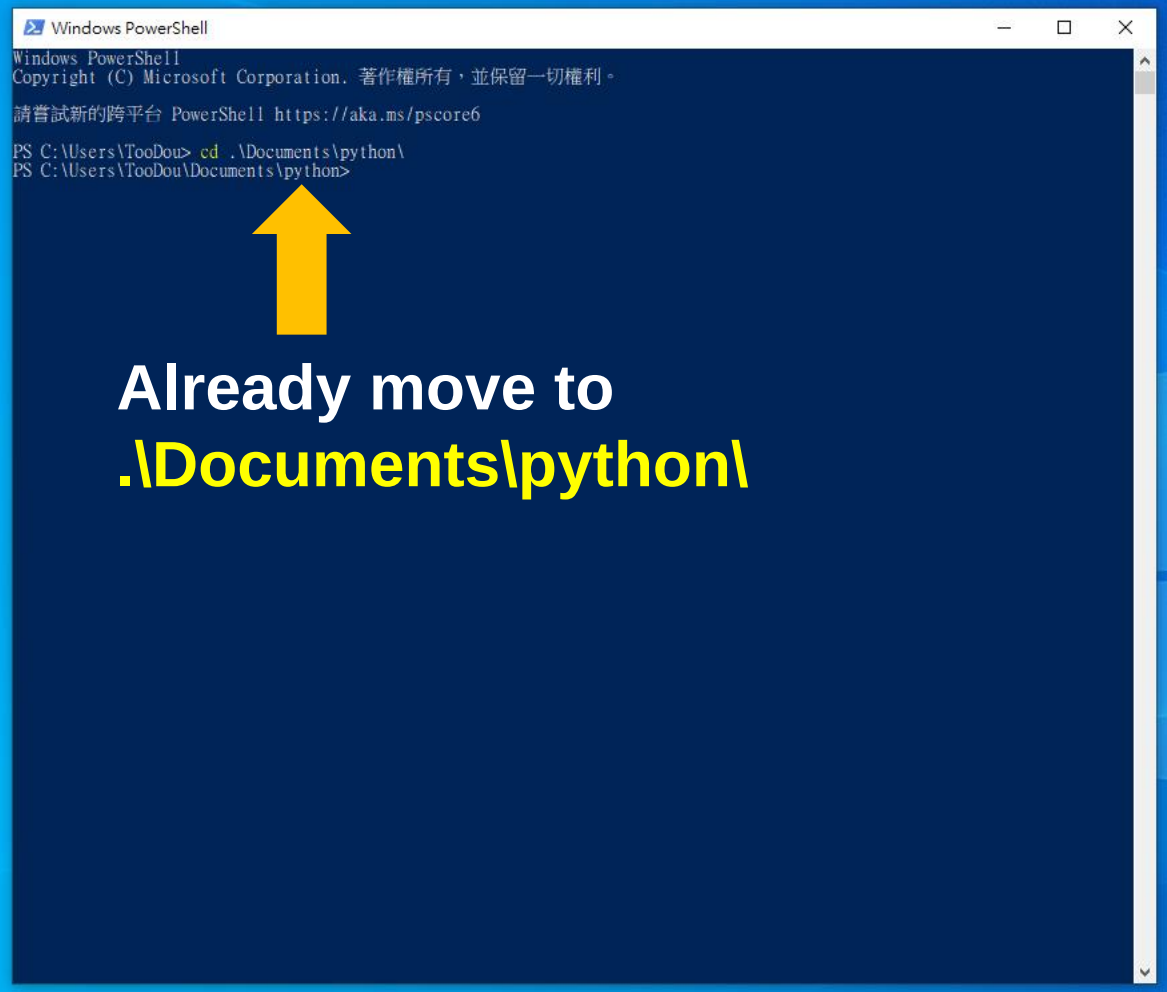


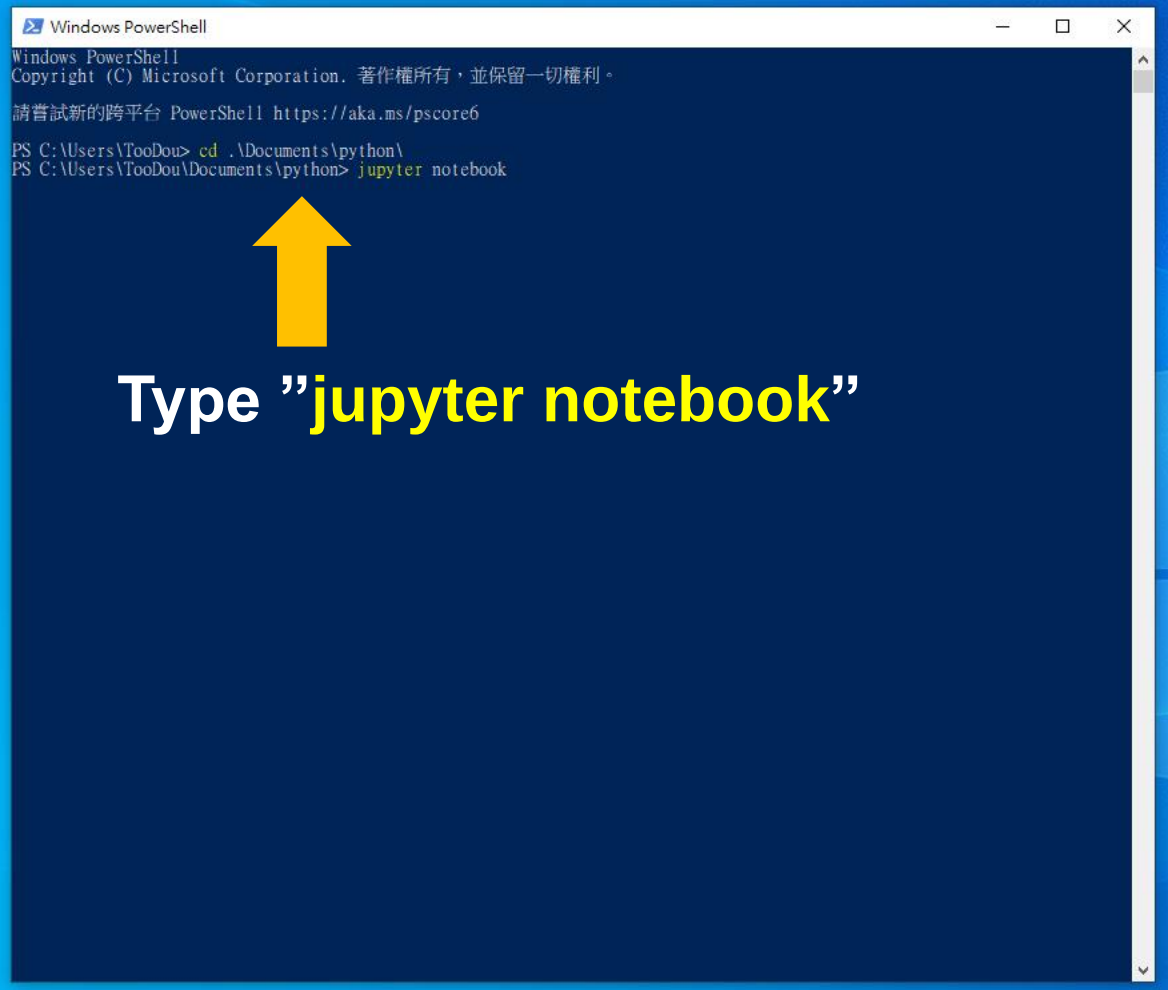
Open “Windows PowerShell”

Type here

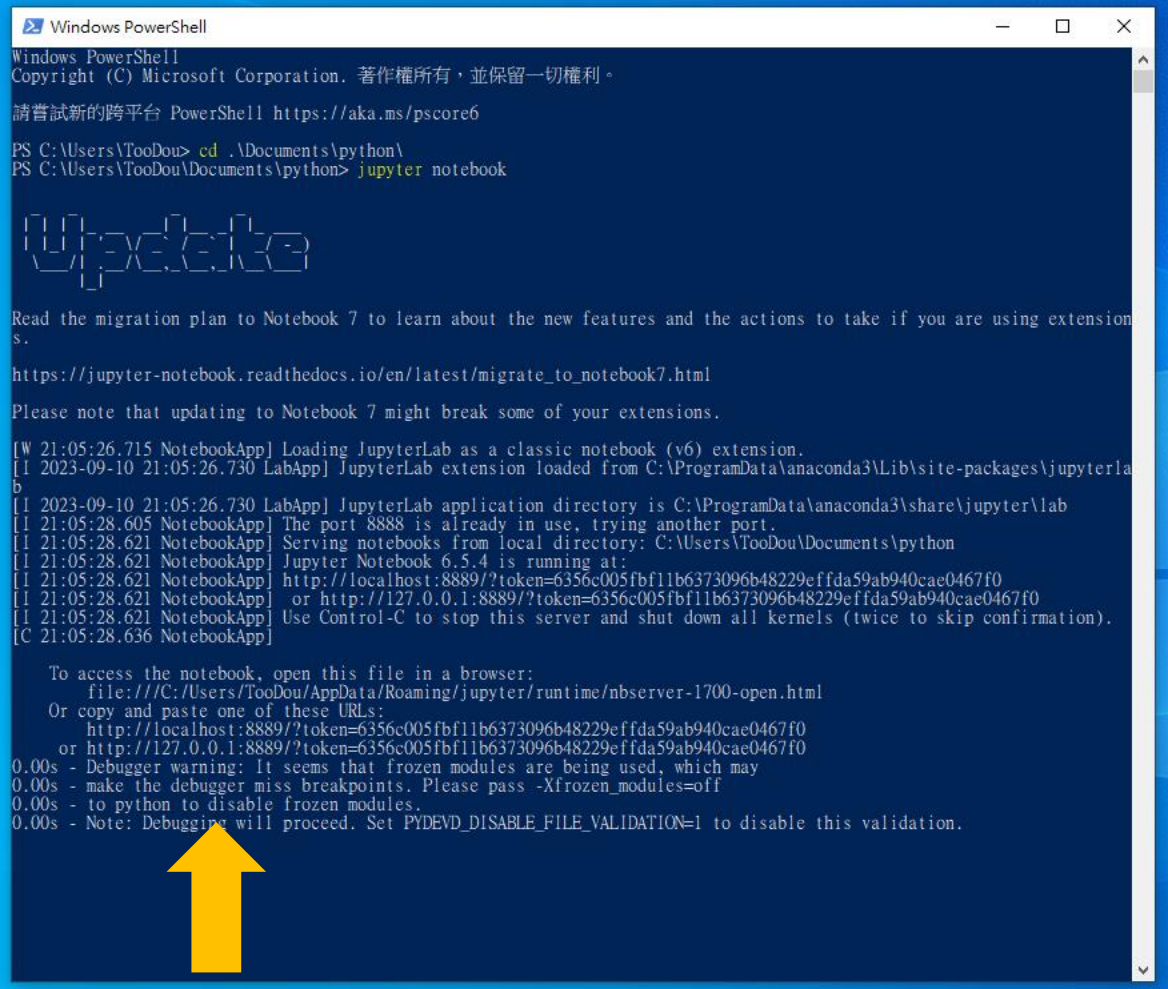

Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou>


Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou> cd .\Documents\python\
cd .\Documents\python\

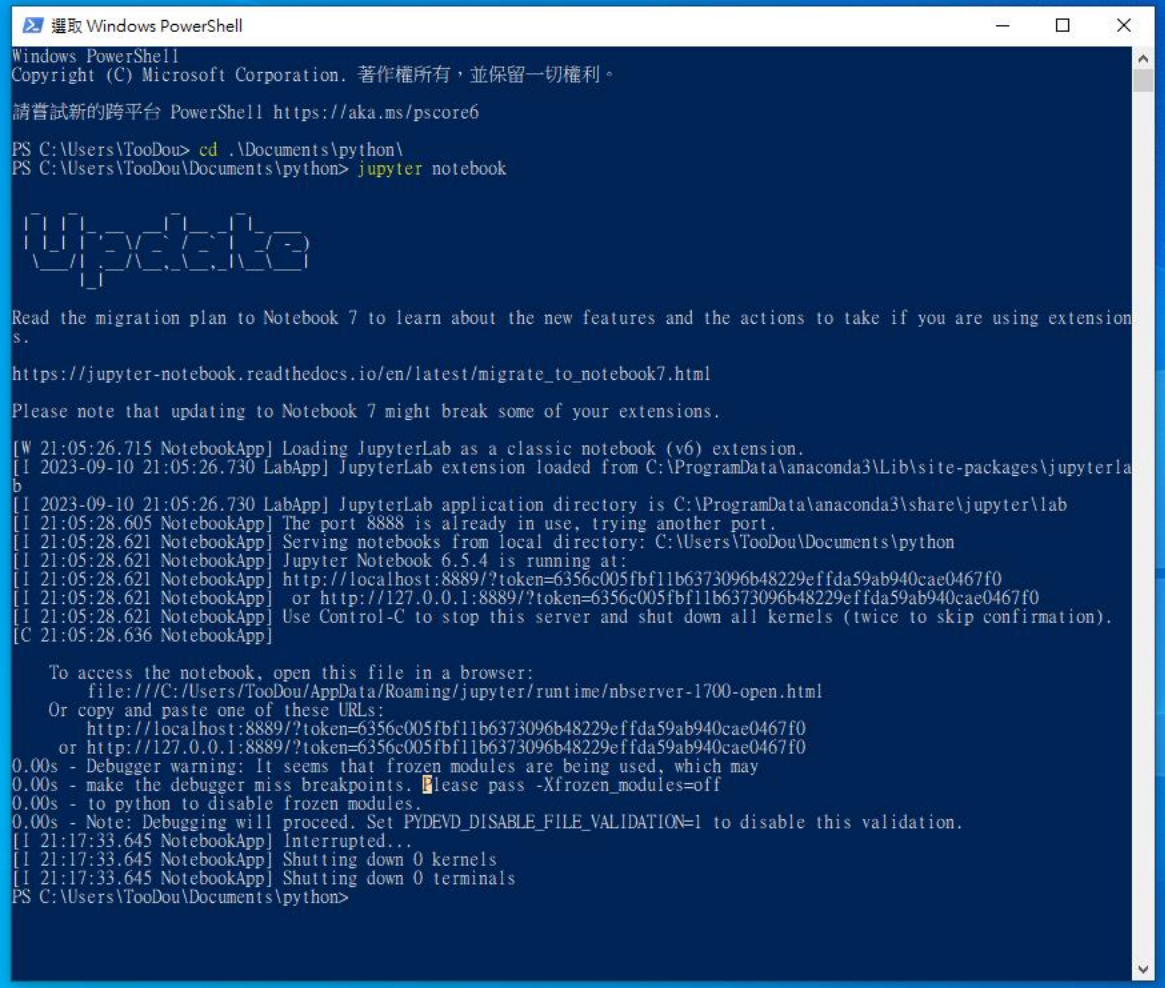

Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou> cd .\Documents\python\
PS C:\Users\TooDou\Documents\python>
Already move to
.\Documents\python\

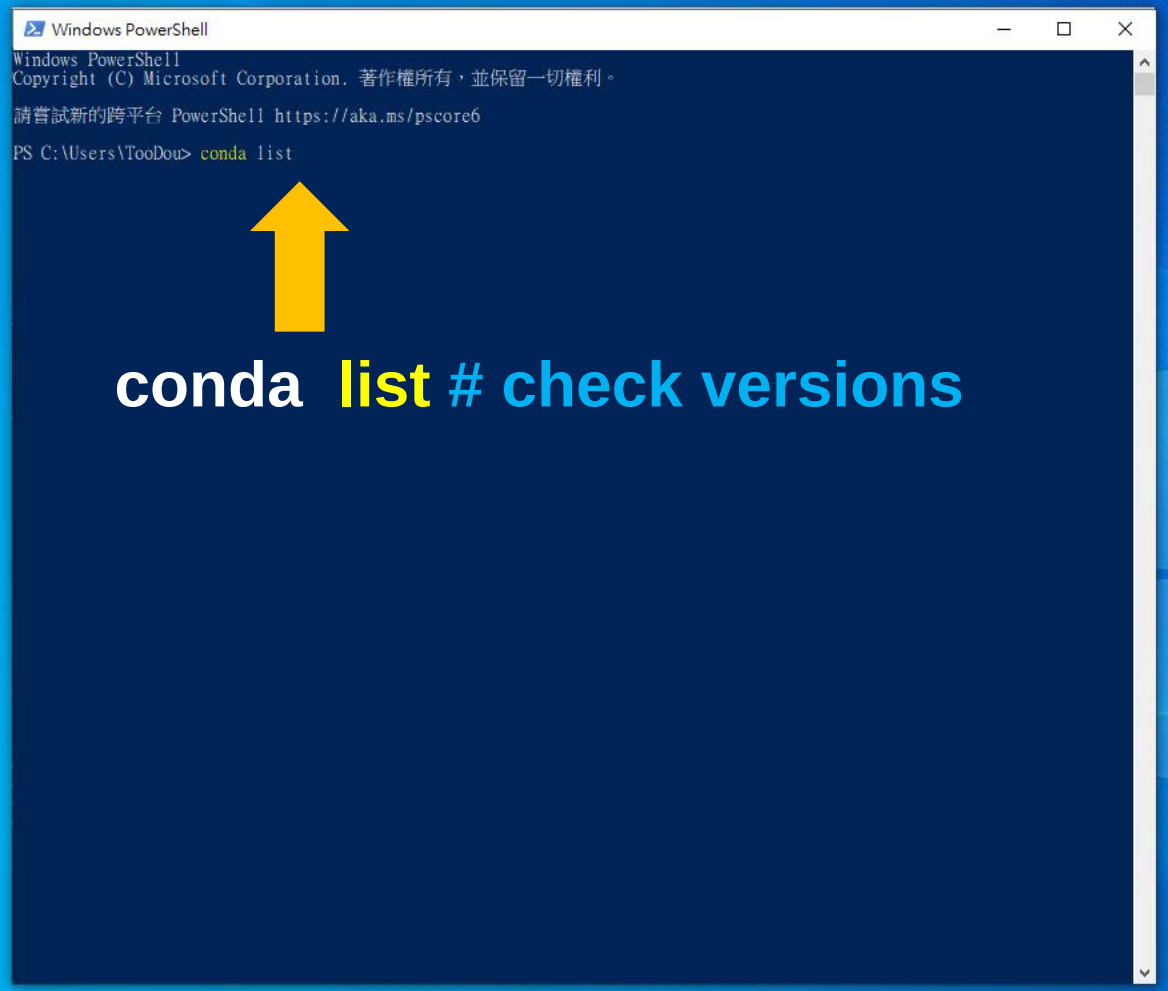


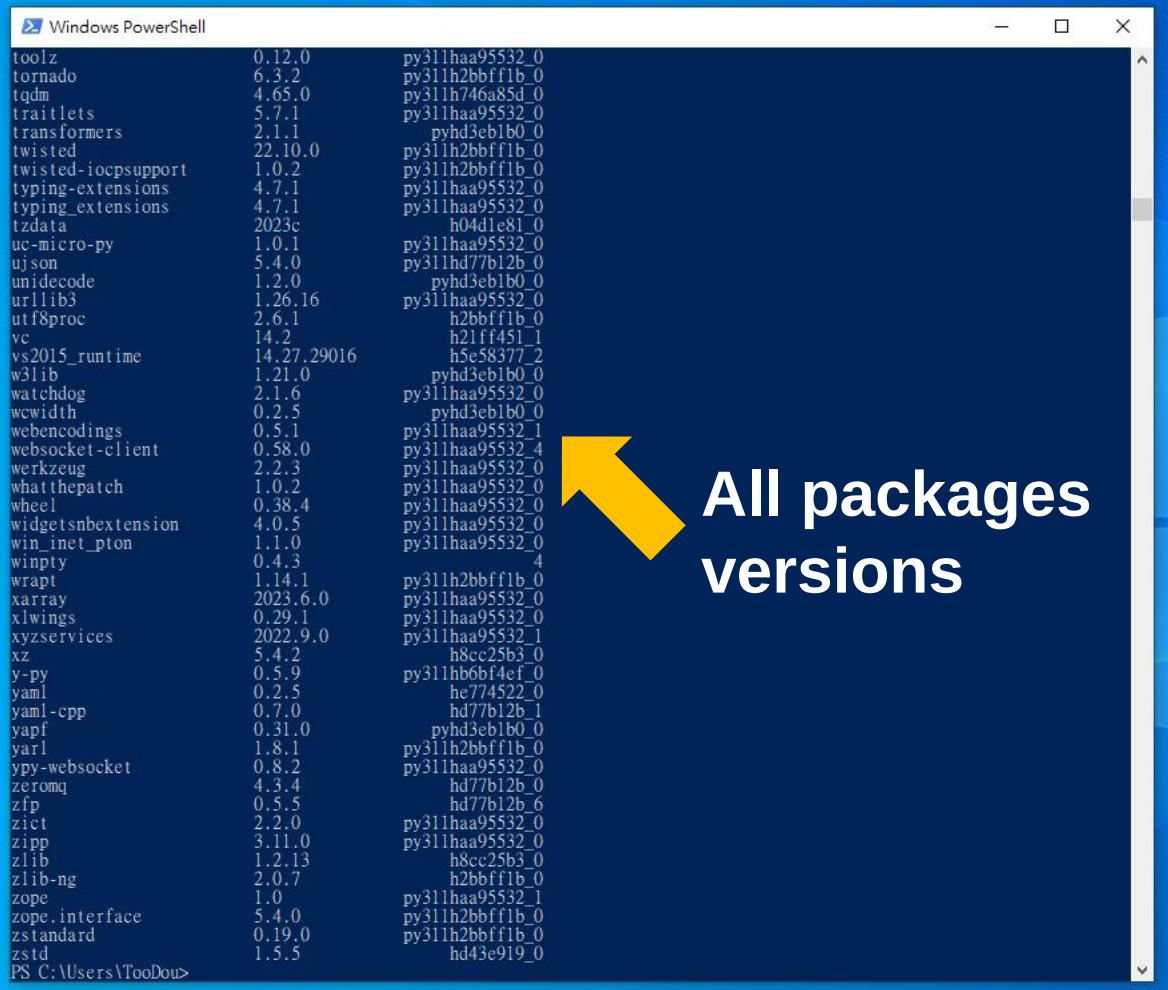
Type ”jupyter notebook”

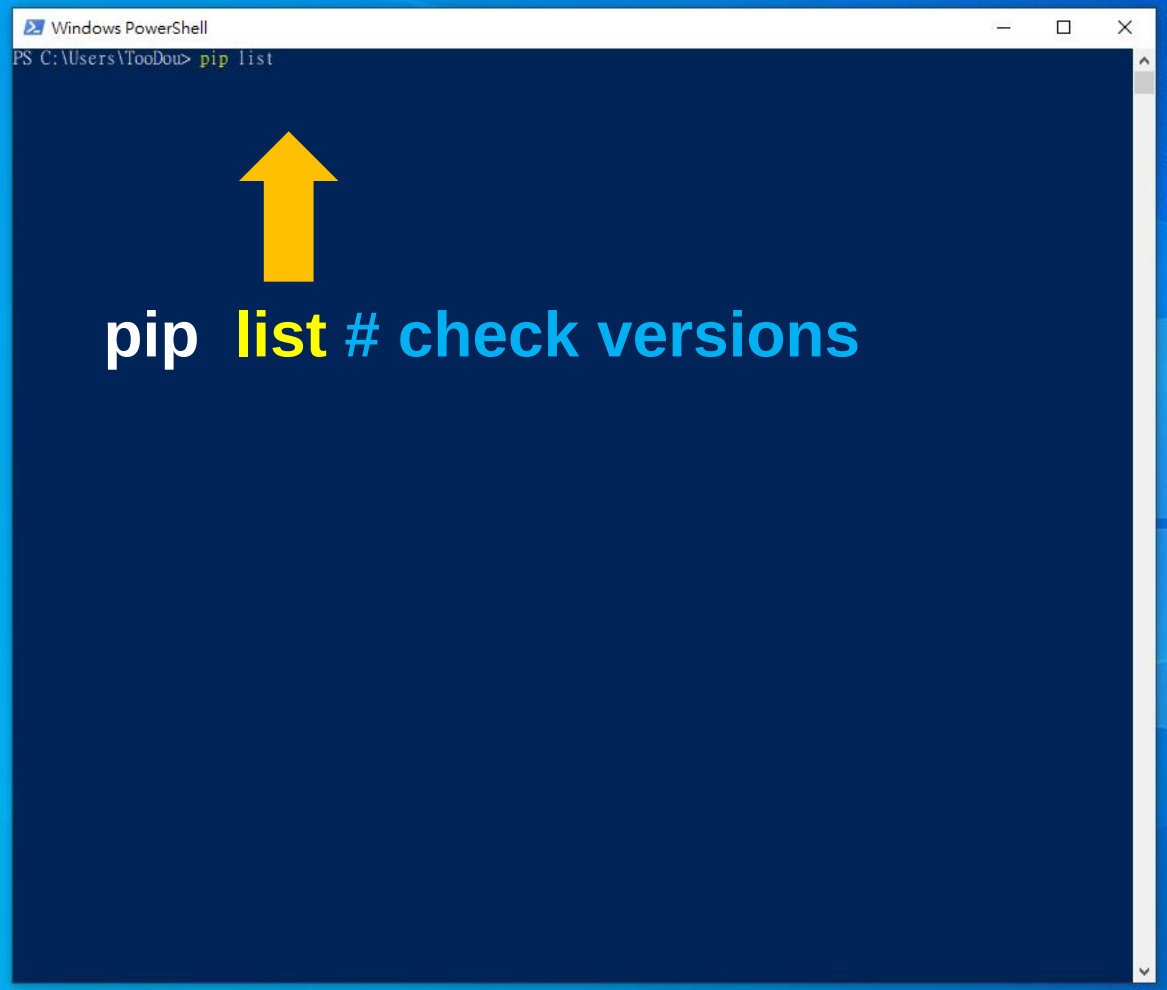


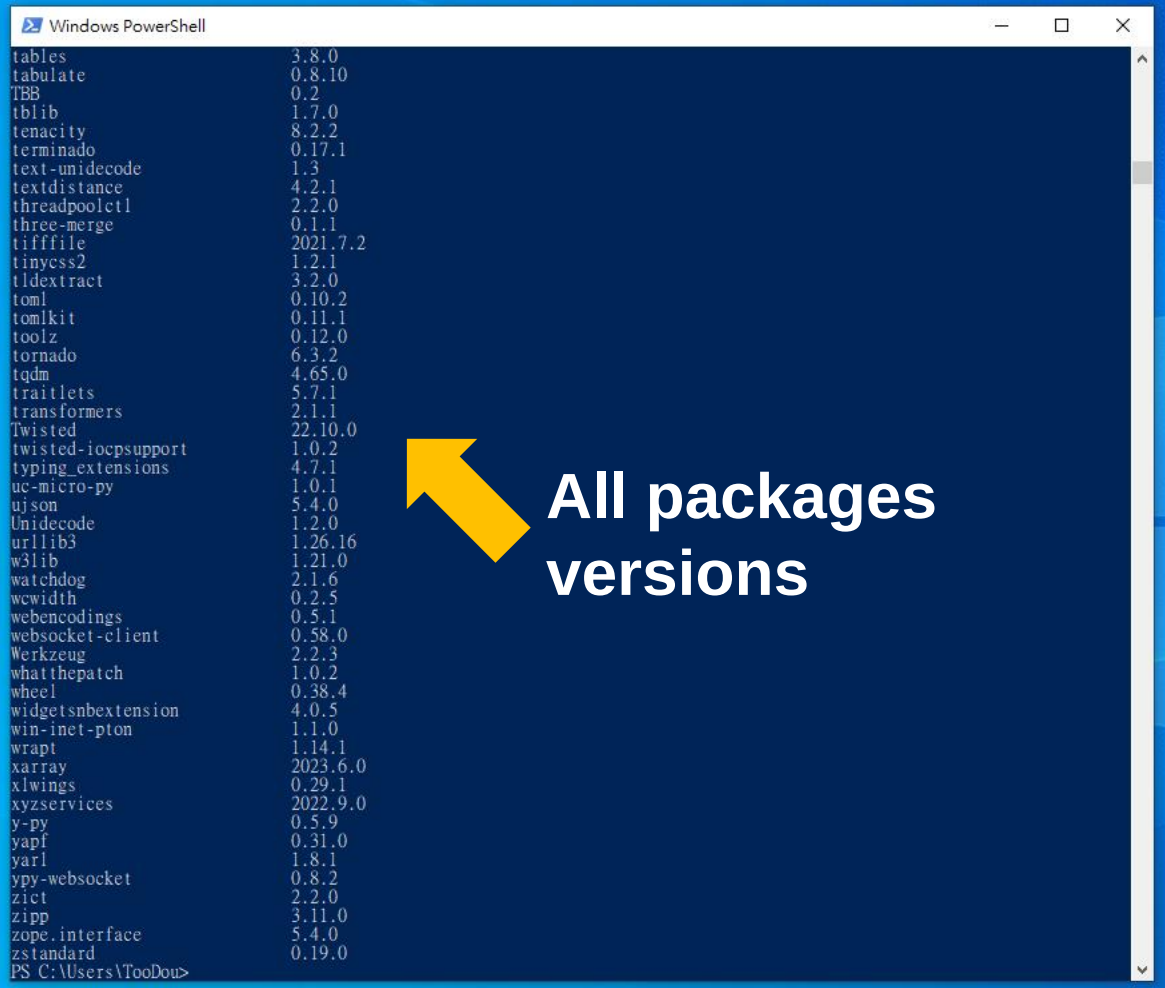
Successfully Open



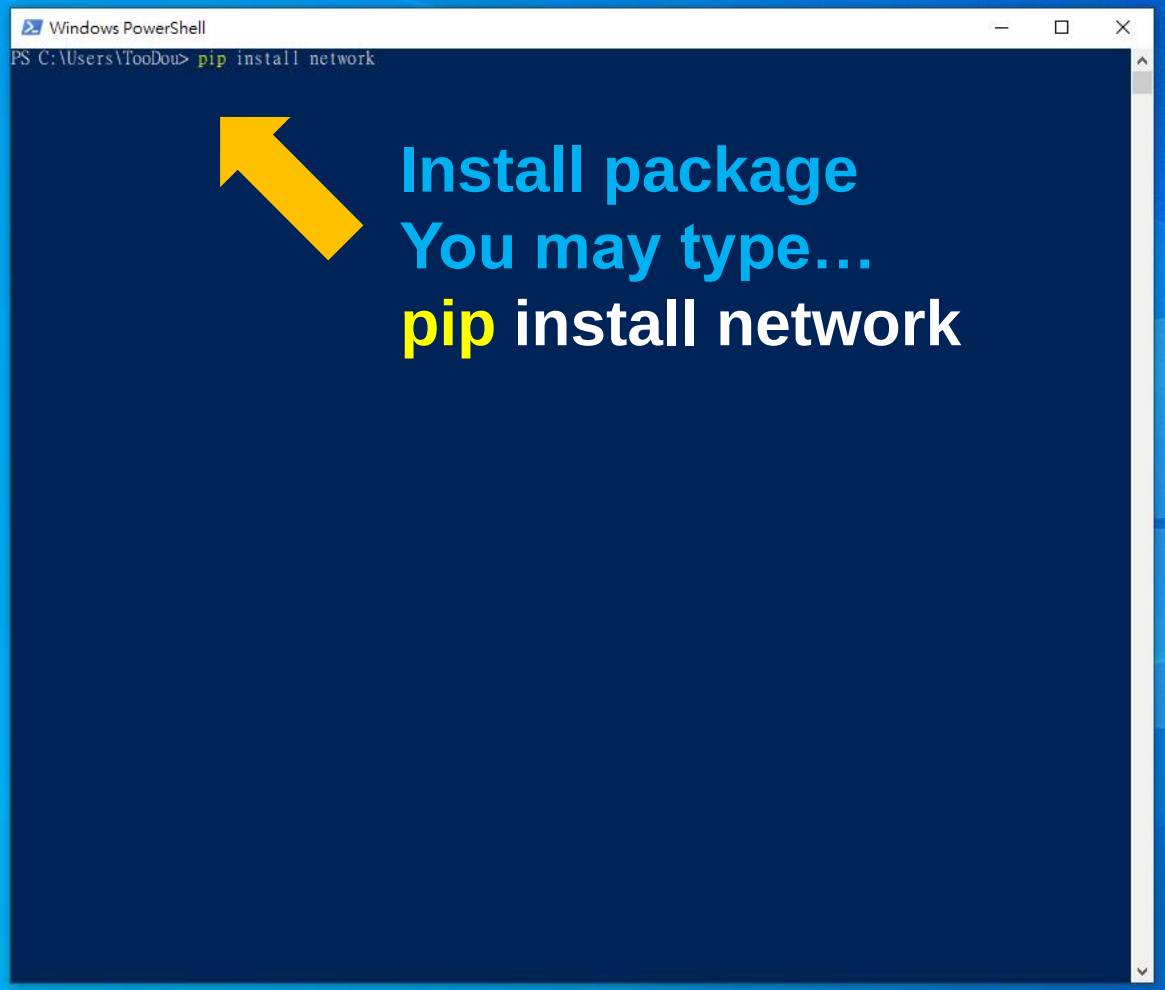

Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou> conda list
conda list # check versions

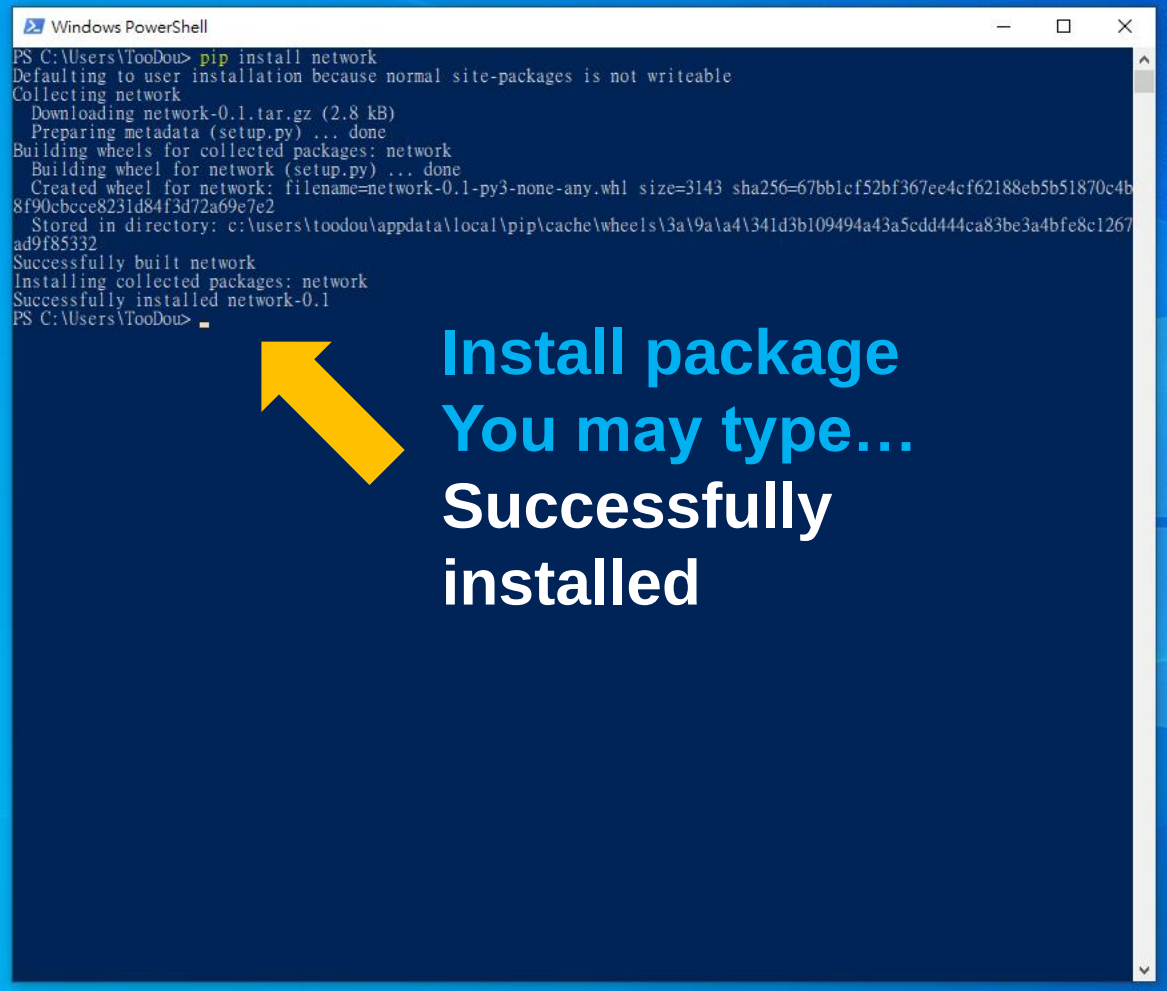

Windows PowerShell
toolz 0.12.0 py311haa95532_0
tornado 6.3.2 py311h2bbff1b_0
tqdm 4.65.0 py311h746a85d_0
traitlets 5.7.1 py311haa95532_0
transformers 2.1.1 pyhd3eb1b0_0
twisted 22.10.0 py311h2bbff1b_0
twisted-iocpsupport 1.0.2 py311h2bbff1b_0
typing-extensions 4.7.1 py311haa95532_0
typing_extensions 4.7.1 py311haa95532_0
tzdata 2023c h04d1e81_0
uc-micro-py 1.0.1 py311haa95532_0
ujson 5.4.0 py311hd77b12b_0
unidecode 1.2.0 pyhd3eb1b0_0
urllib3 1.26.16 py311haa95532_0
utf8proc 2.6.1 h2bbff1b_0
vc 14.2 h21ff451_1
vs2015_runtime 14.27.29016 h5e58377_2
w3lib 1.21.0 pyhd3eb1b0_0
watchdog 2.1.6 py311haa95532_0
wcwidth 0.2.5 pyhd3eb1b0_0
webencodings 0.5.1 py311haa95532_1
websocket-client 0.58.0 py311haa95532_4
werkzeug 2.2.3 py311haa95532_0
whatthepatch 1.0.2 py311haa95532_0
wheel 0.38.4 py311haa95532_0
widgetsnbextension 4.0.5 py311haa95532_0
win_inet_pton 1.1.0 py311haa95532_0
winpty 0.4.3 4
wrapt 1.14.1 py311h2bbff1b_0
xarray 2023.6.0 py311haa95532_0
xlwings 0.29.1 py311haa95532_0
xyzservices 2022.9.0 py311haa95532_1
xz 5.4.2 h8cc25b3_0
y-py 0.5.9 py311hb6bf4ef_0
yaml 0.2.5 he774522_0
yaml-cpp 0.7.0 hd77b12b_1
yapf 0.31.0 pyhd3eb1b0_0
yarl 1.8.1 py311h2bbff1b_0
ypy-websocket 0.8.2 py311haa95532_0
zeromq 4.3.4 hd77b12b_0
zfp 0.5.5 hd77b12b_6
zict 2.2.0 py311haa95532_0
zipp 3.11.0 py311haa95532_0
zlib 1.2.13 h8cc25b3_0
zlib-ng 2.0.7 h2bbff1b_0
zope 1.0 py311haa95532_1
zope.interface 5.4.0 py311h2bbff1b_0
zstandard 0.19.0 py311h2bbff1b_0
zstd 1.5.5 hd43e919_0
PS C:\Users\TooDou>
All packages versions

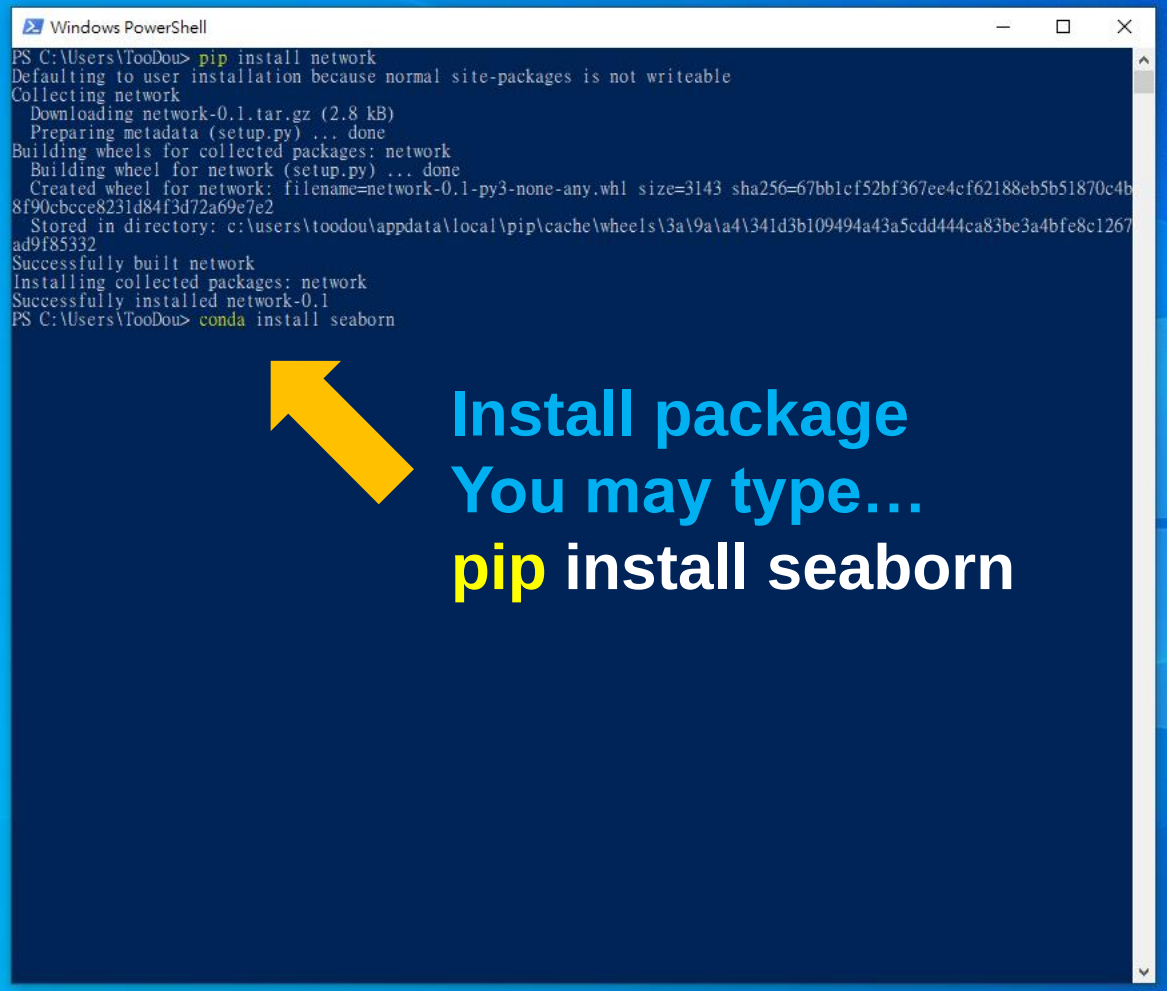

Windows PowerShell
PS C:\Users\TooDou> pip list
pip list # check versions

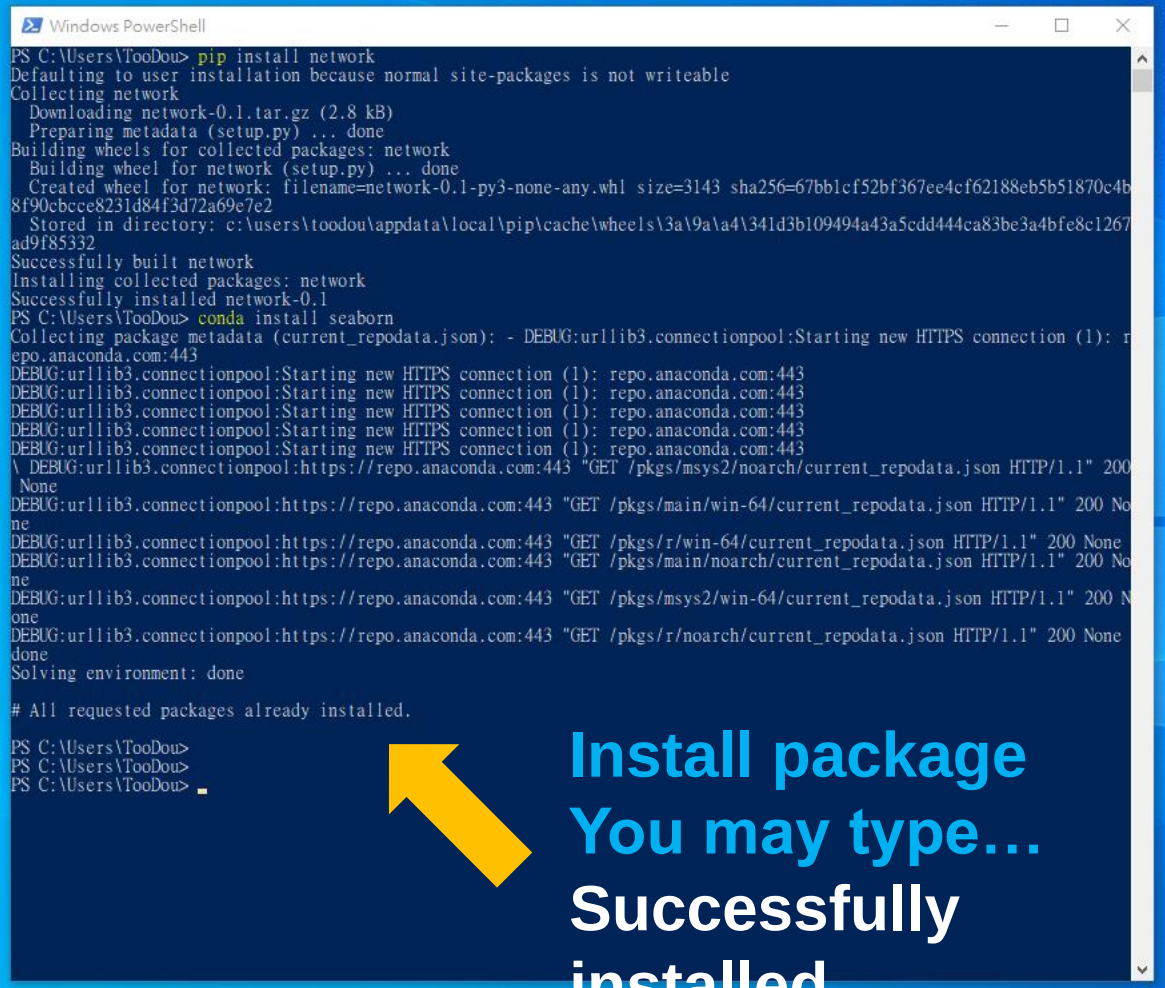


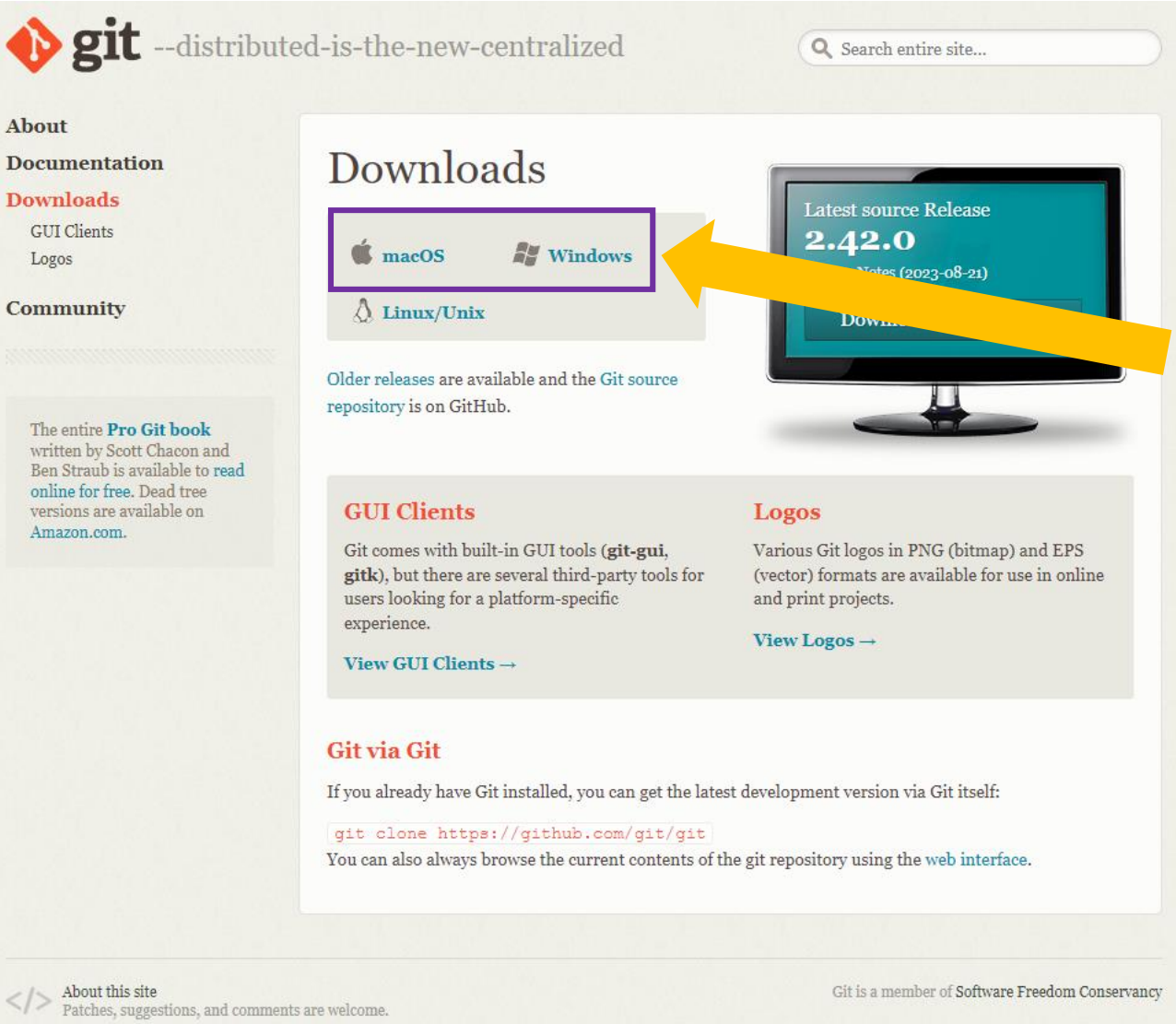
All packages versions


Windows PowerShell
PS C:\Users\TooDou> pip install network
Install package
You may type…
pip install network

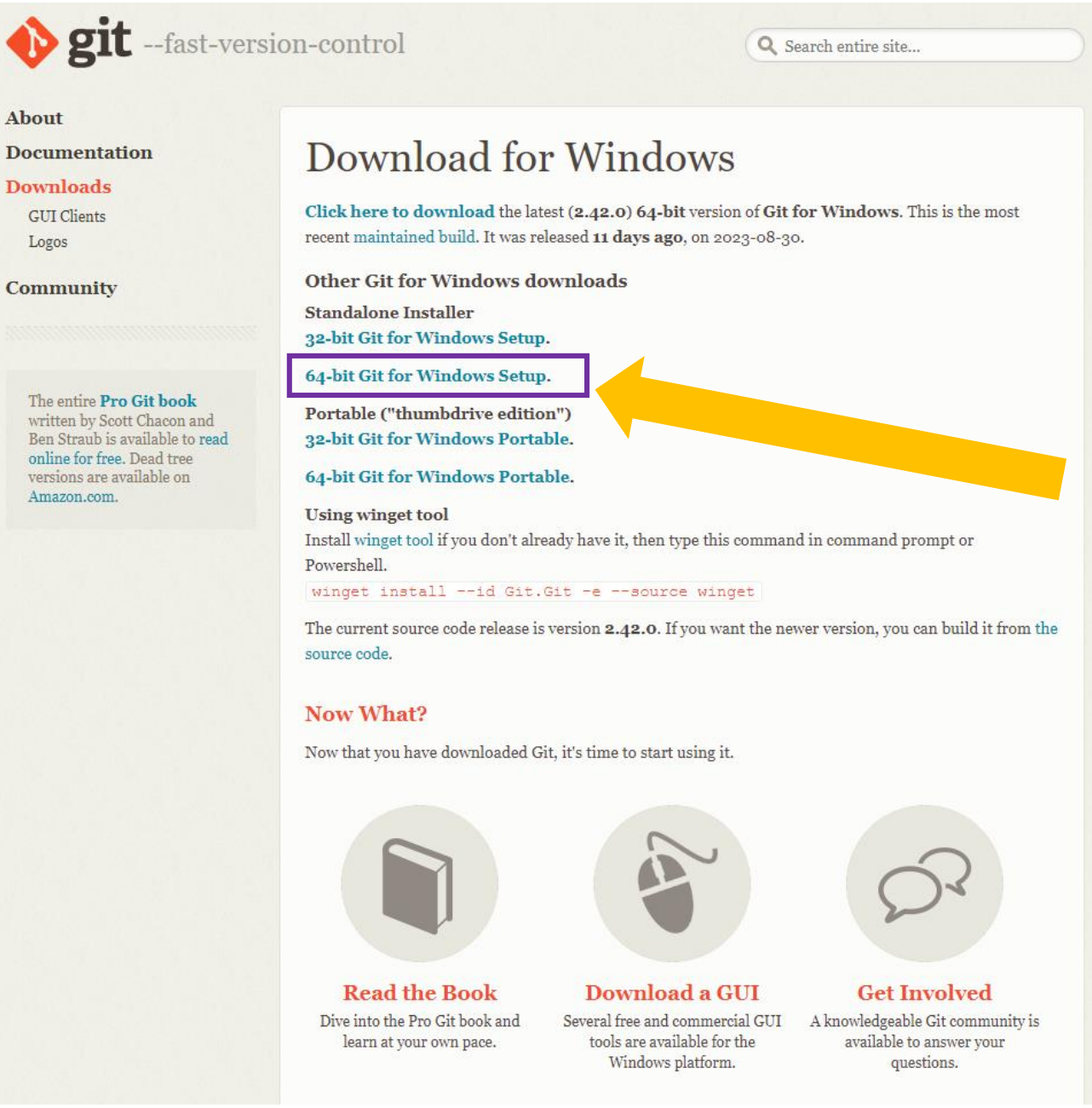

Windows PowerShell
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
Downloading network-0.1.tar.gz (2.8 kB)
Preparing metadata (setup.py) ... done
Building wheels for collected packages: network
Building wheel for network (setup.py) ... done
Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188eb5b51870c4b8f90cbcce8231d84f3d72a69e7e2
Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\a4\341d3b109494a43a5cdd444ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou>
Install package
You may type…
Successfully installed


Windows PowerShell
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
Downloading network-0.1.tar.gz (2.8 kB)
Preparing metadata (setup.py) ... done
Building wheels for collected packages: network
Building wheel for network (setup.py) ... done
Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188eb5b51870c4b8f90cbcce8231d84f3d72a69e7e2
Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\a4\341d3b109494a43a5cdd444ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou> conda install seaborn
Install package
You may type…
pip install seaborn


Windows PowerShell
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
Downloading network-0.1.tar.gz (2.8 kB)
Preparing metadata (setup.py) ... done
Building wheels for collected packages: network
Building wheel for network (setup.py) ... done
Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188eb5b51870c4b8f90cbcce8231d84f3d72a69e7e2
Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\a4\341d3b109494a43a5cdd444ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou> conda install seaborn
Collecting package metadata (current_repodata.json): - DEBUG:urllib3.connectionpool:Starting new HTTPS connection (1): repo.anaconda.com:443
DEBUG:urllib3.connectionpool:Starting new HTTPS connection (1): repo.anaconda.com:443
DEBUG:urllib3.connectionpool:Starting new HTTPS connection (1): repo.anaconda.com:443
DEBUG:urllib3.connectionpool:Starting new HTTPS connection (1): repo.anaconda.com:443
DEBUG:urllib3.connectionpool:Starting new HTTPS connection (1): repo.anaconda.com:443
\ DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/msys2/noarch/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/main/win-64/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/r/win-64/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/main/noarch/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/msys2/win-64/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/r/noarch/current_repodata.json HTTP/1.1" 200 None
done
Solving environment: done
All requested packages already installed.
PS C:\Users\TooDou>
PS C:\Users\TooDou>
PS C:\Users\TooDou>
Install package
You may type…
Successfully installed

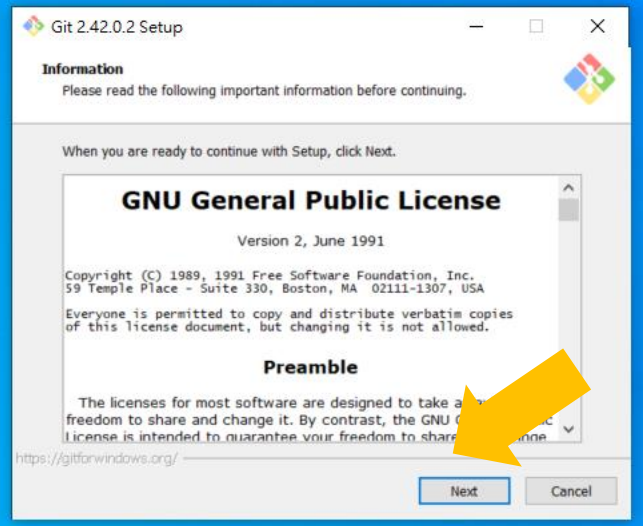


When you need something from GitHub, and you will need this …

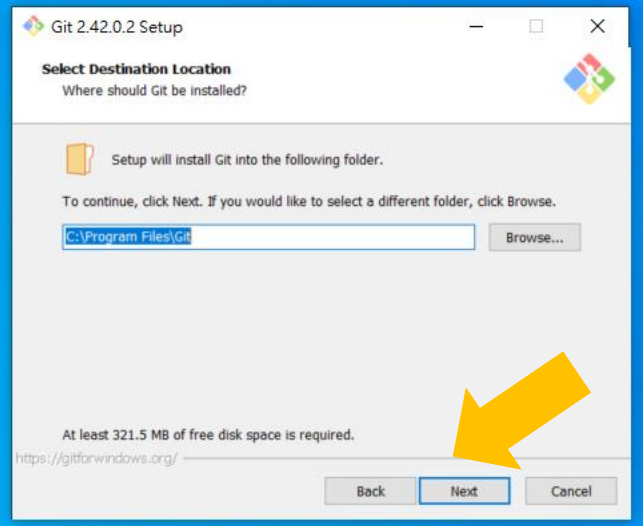


Download here
If your computer is windows …

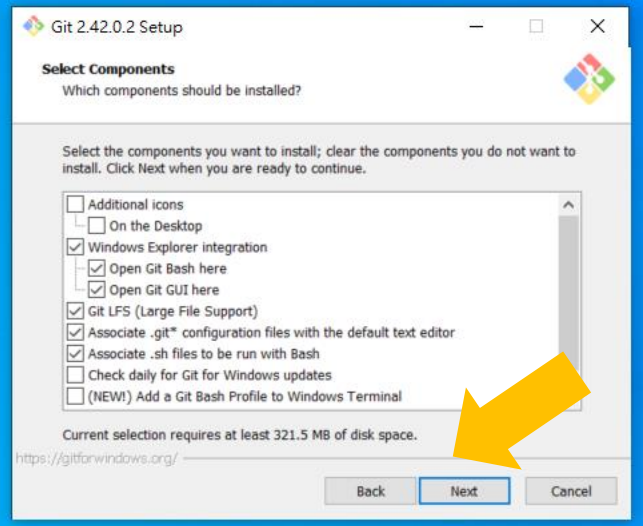
Click “Next”



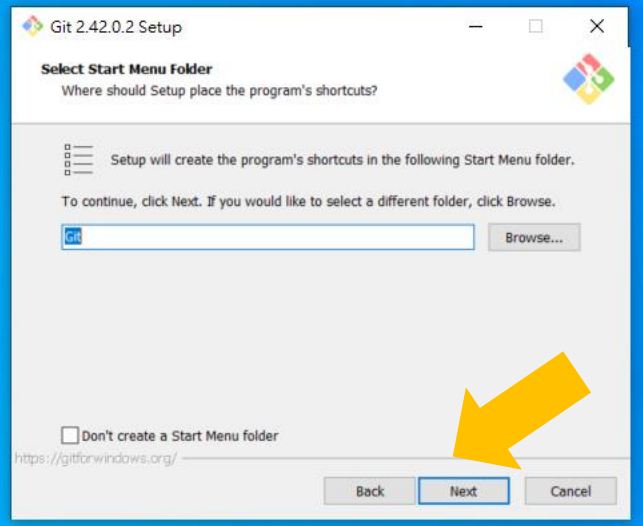
Click “Next”


Git 2.42.0.2 Setup
Select Destination Location
Where should Git be installed?
Setup will install Git into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\Git
Browse...
At least 321.5 MB of free disk space is required.
https://gitforwindows.org/
Back
Next
Cancel

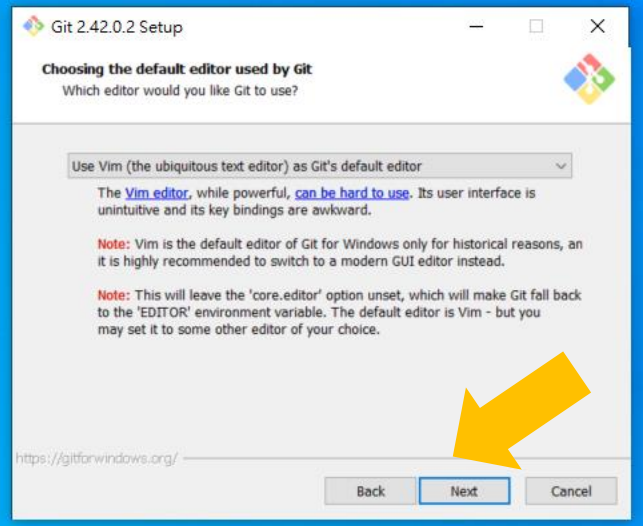
Click “Next”



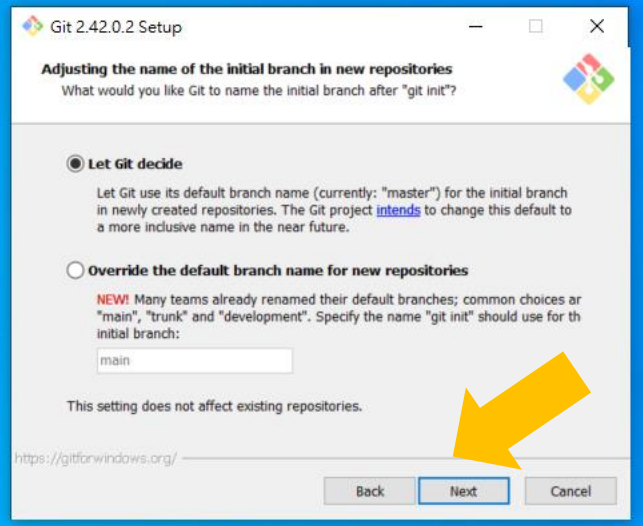
Click “Next”


Git 2.42.0.2 Setup
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
Git
Browse...
Don't create a Start Menu folder
https://gitforwindows.org/
Back
Next
Cancel

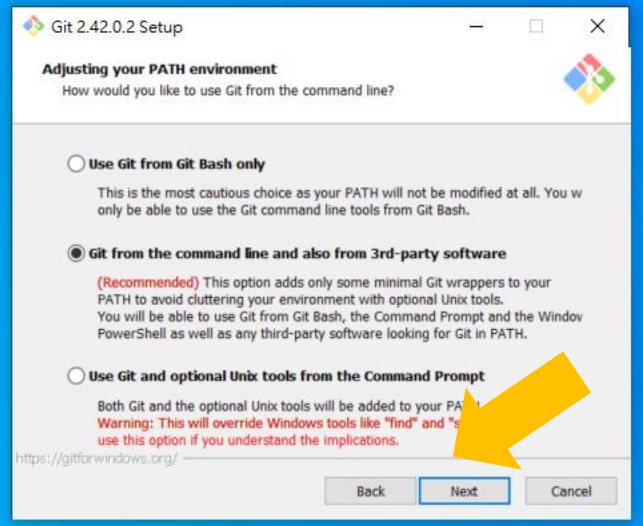
Click “Next”


Git 2.42.0.2 Setup
Choosing the default editor used by Git
Which editor would you like Git to use?
Use Vim (the ubiquitous text editor) as Git's default editor
The Vim editor, while powerful, can be hard to use. Its user interface is unintuitive and its key bindings are awkward.
Note: Vim is the default editor of Git for Windows only for historical reasons, an it is highly recommended to switch to a modern GUI editor instead.
Note: This will leave the 'core.editor' option unset, which will make Git fall back to the 'EDITOR' environment variable. The default editor is Vim - but you may set it to some other editor of your choice.
https://gitforwindows.org/
Back
Next
Cancel

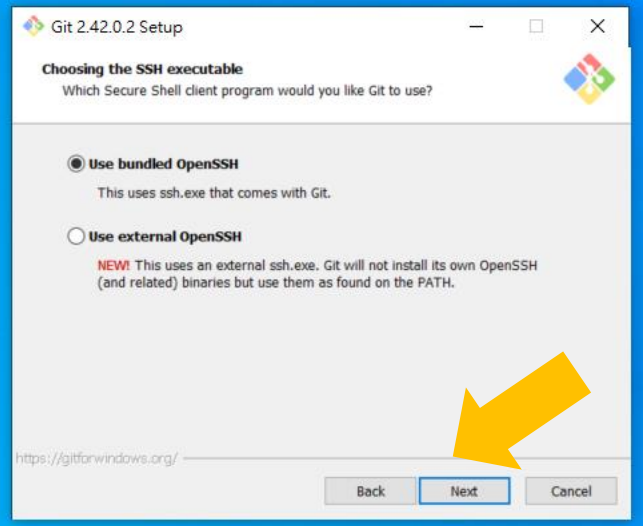
Click “Next”



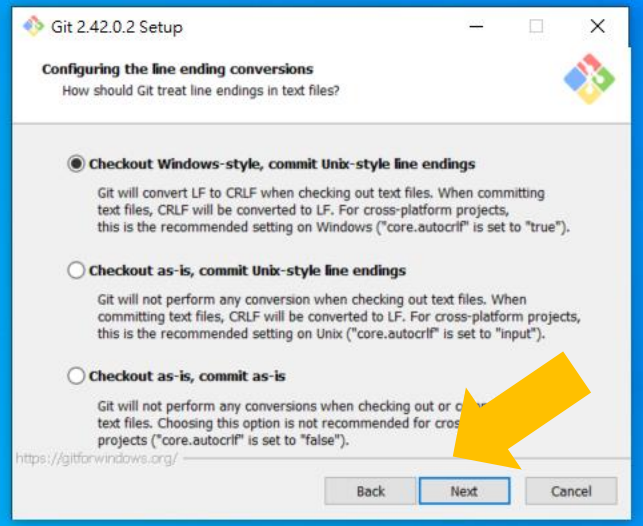
Click “Next”



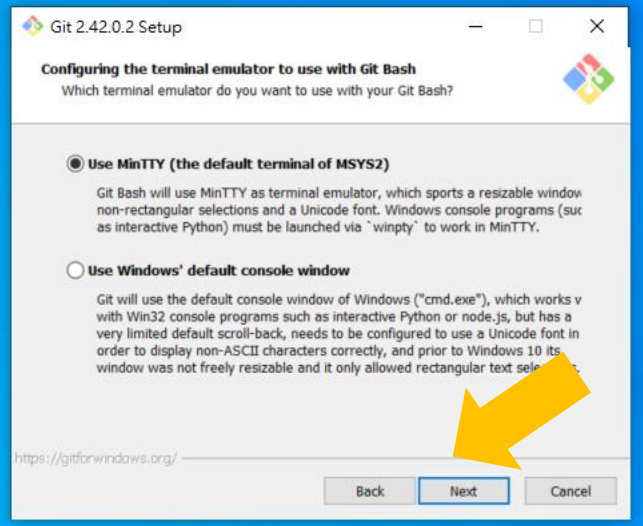
Click “Next”


Git 2.42.0.2 Setup
Choosing the SSH executable
Which Secure Shell client program would you like Git to use?
Use bundled OpenSSH
This uses ssh.exe that comes with Git.
Use external OpenSSH
NEW! This uses an external ssh.exe. Git will not install its own OpenSSH (and related) binaries but use them as found on the PATH.
https://gitforwindows.org/
Back
Next
Cancel

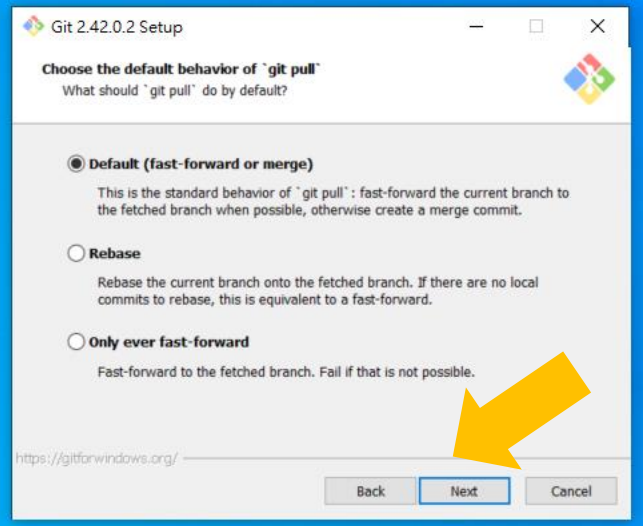
Click “Next”



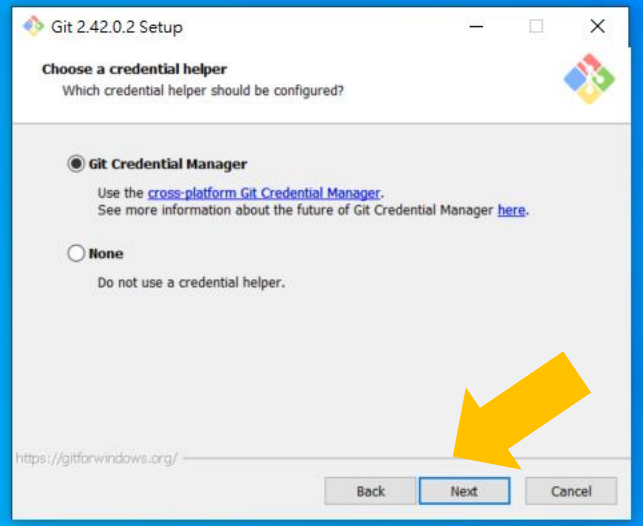
Click “Next”



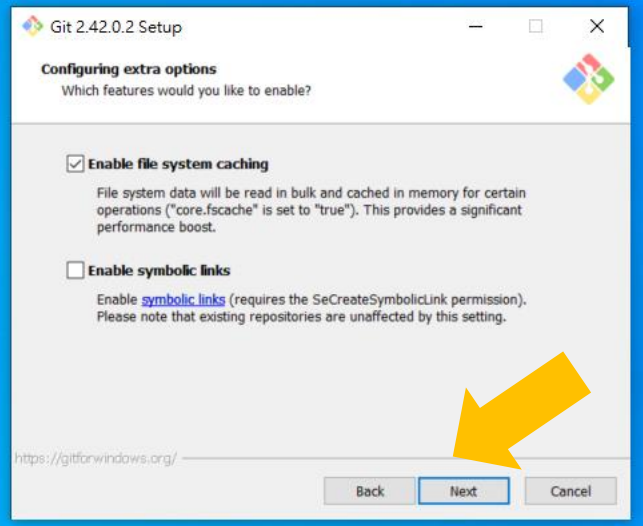
Click “Next”



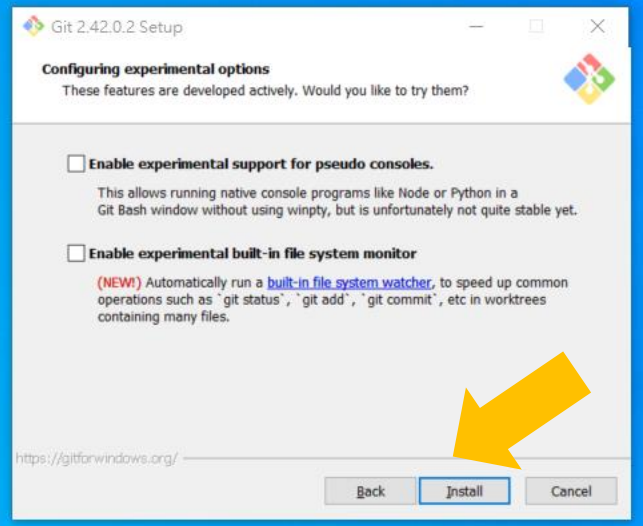
Click “Next”



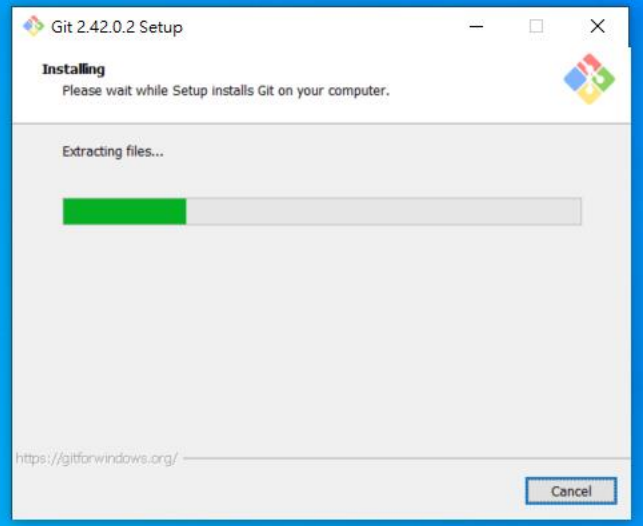
Click “Next”



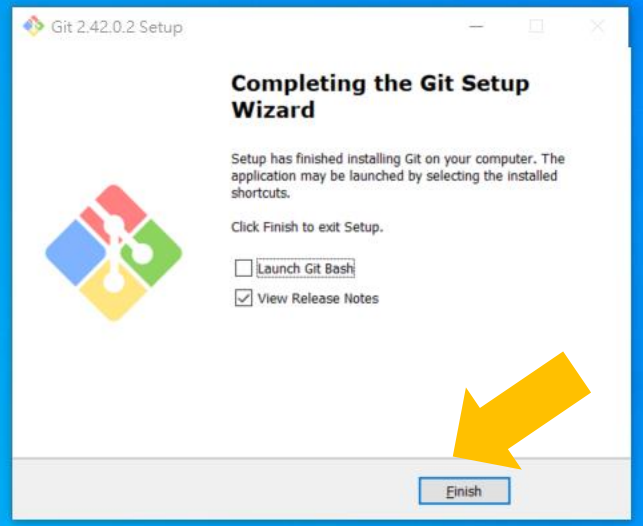
Click “Install”



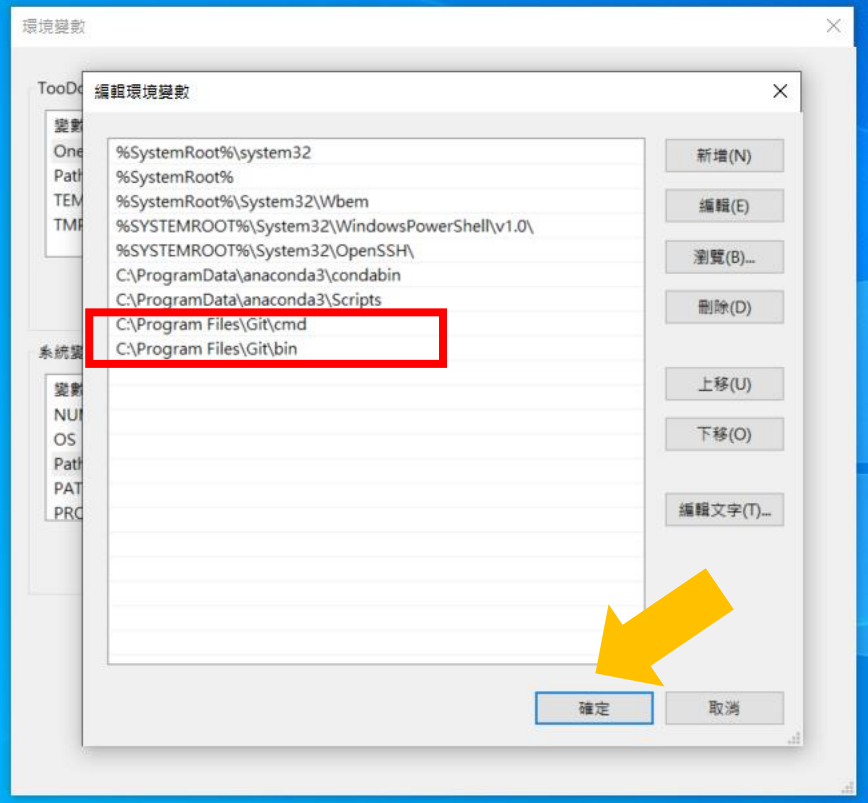
Installing Git



Click “Finish”

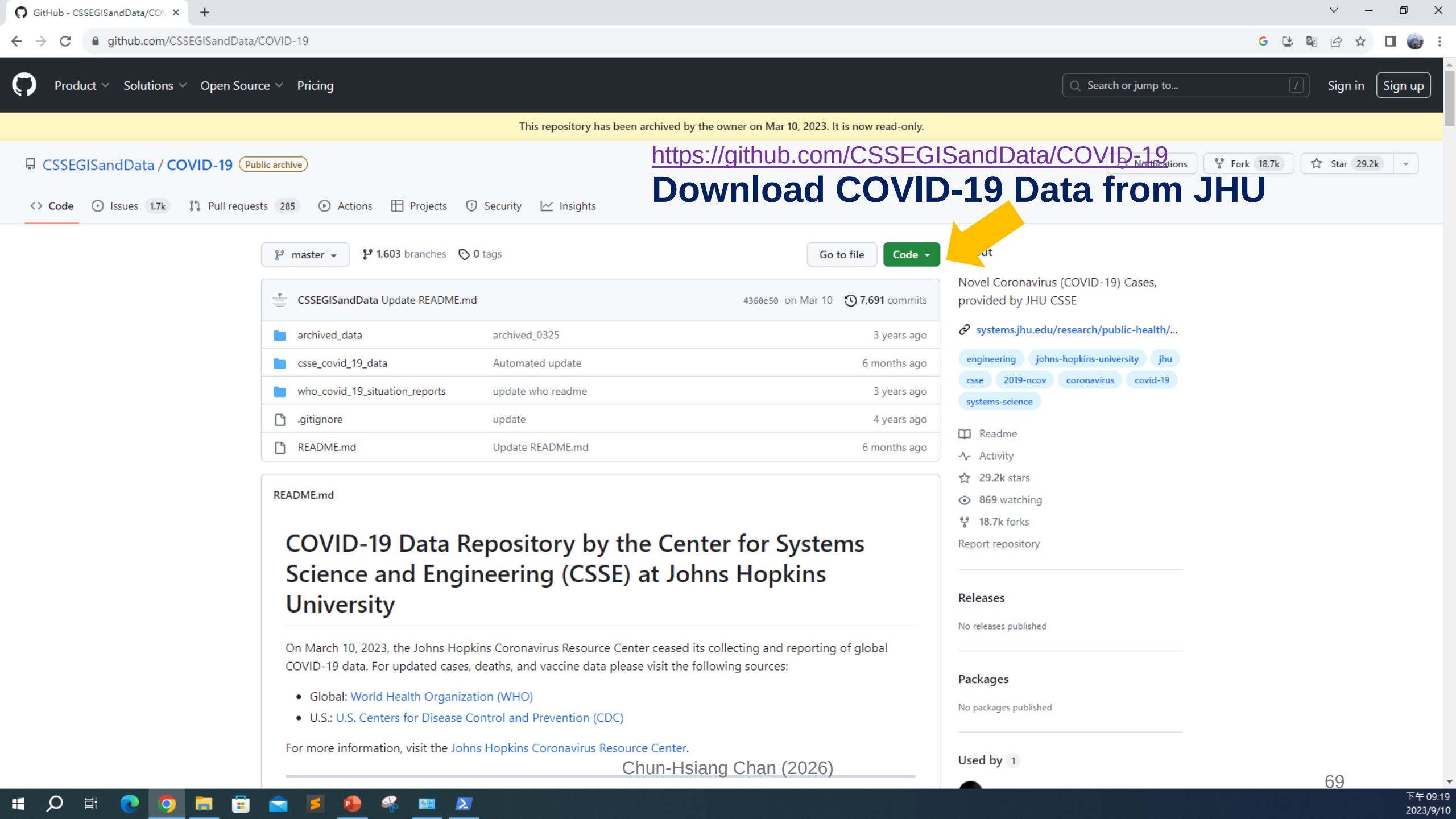


Set “環境變數” (environmental variables)



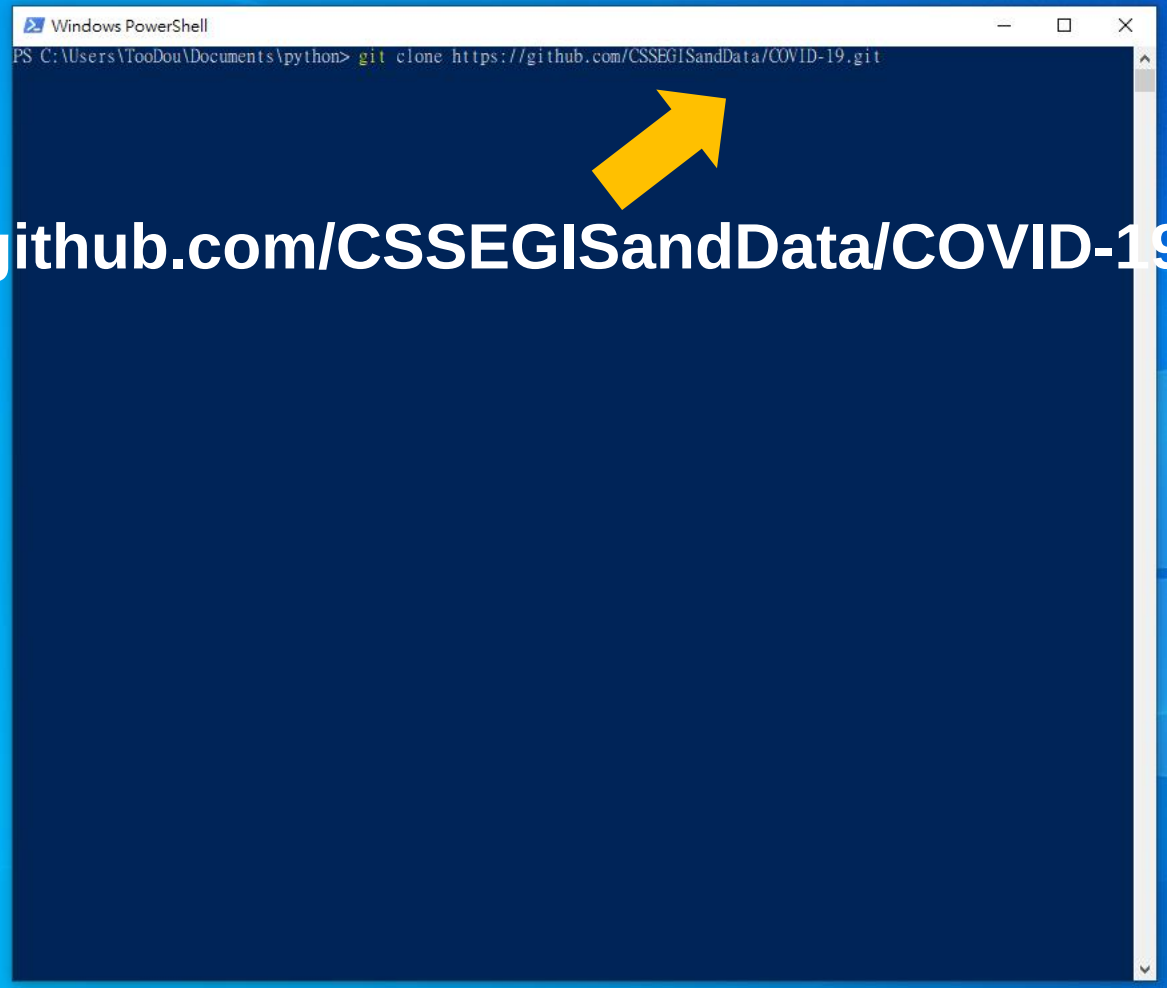
https://github.com/CSSEGISandData/COVID-19

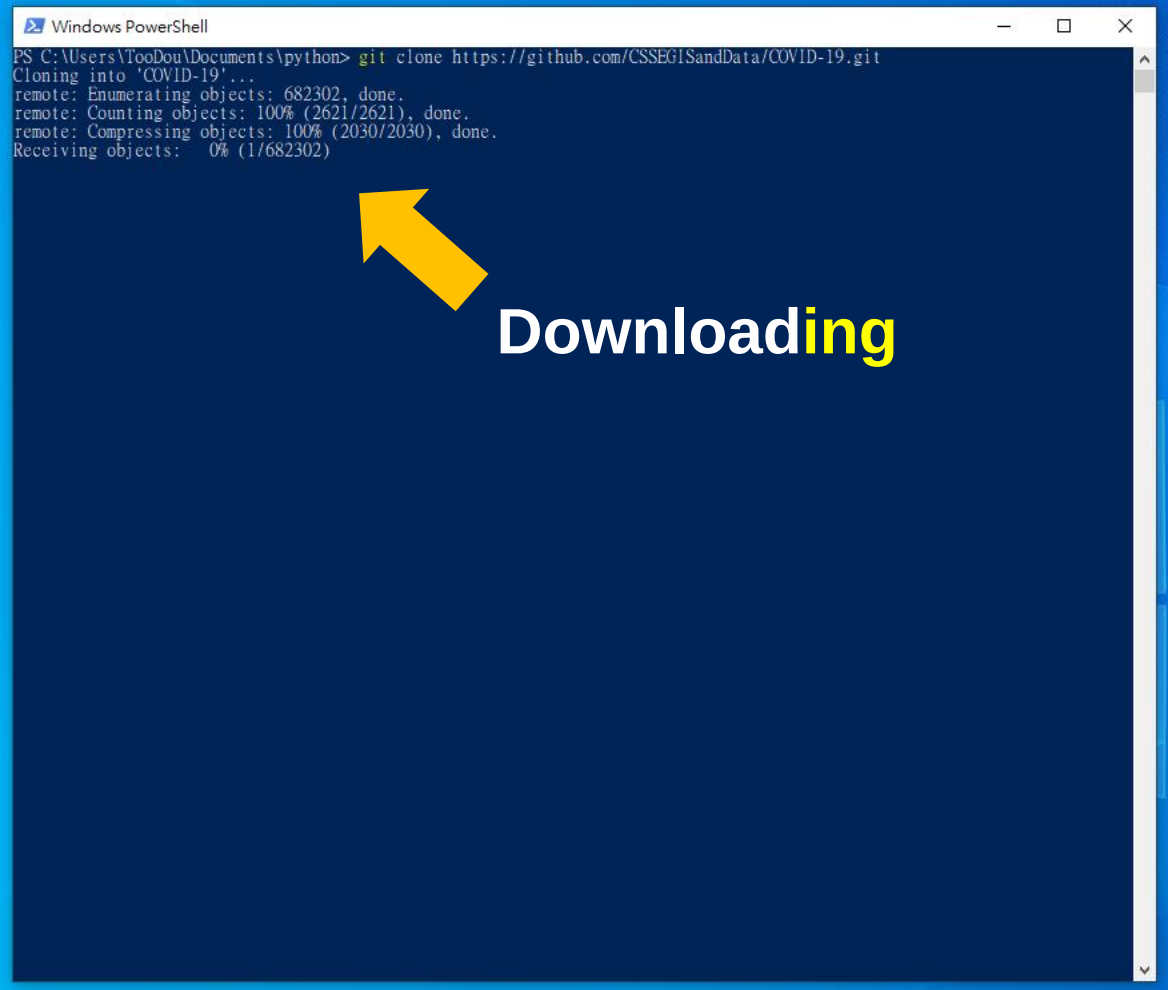
Download COVID-19 Data from JHU



Open terminal…

git clone https://github.com/CSSEGISandData/COVID-19.git





The End

Thank you for your attention!

Email: chchan@ntnu.edu.tw

Website: https://toodou.github.io/