

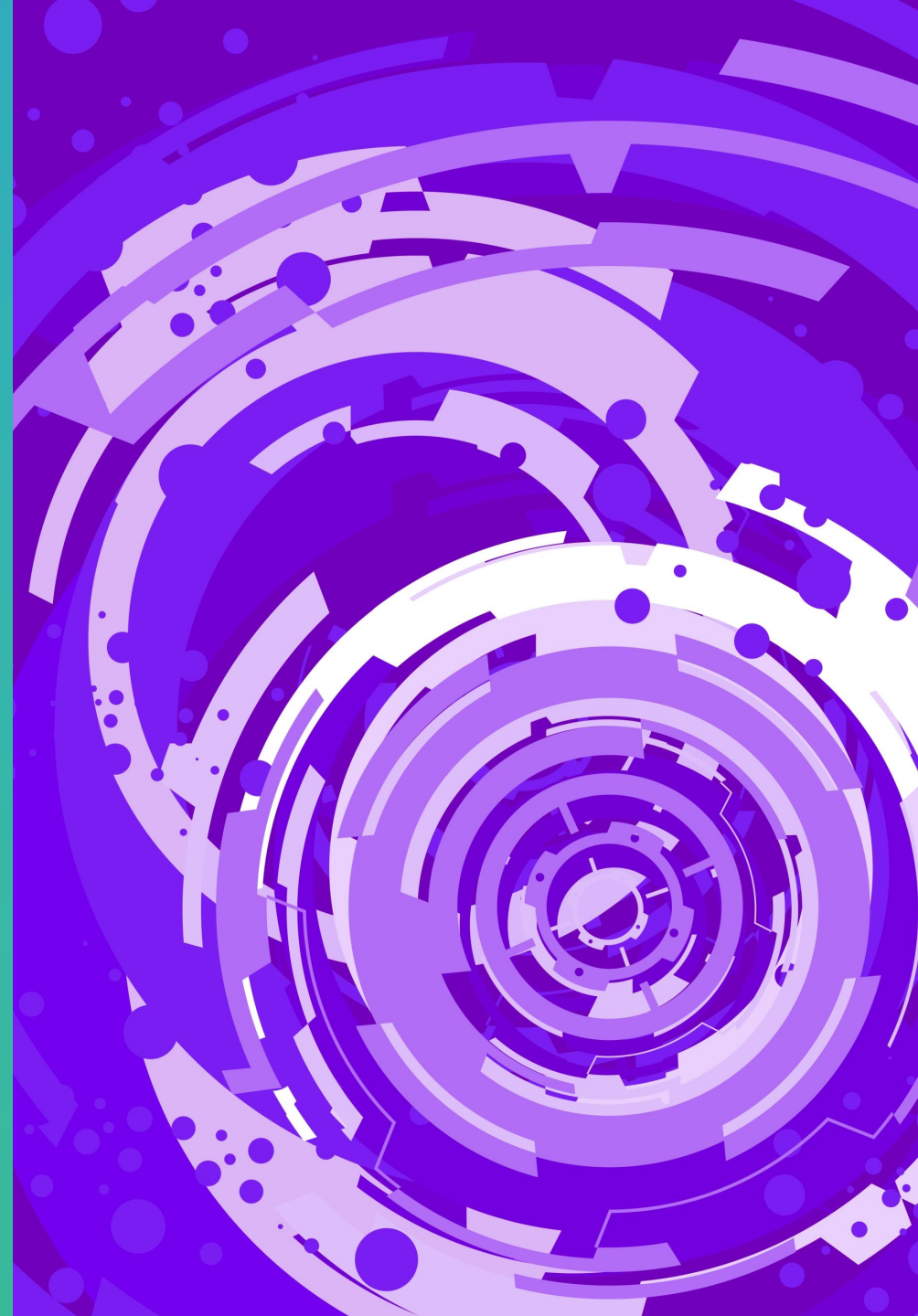
URBAN GEOGRAPHIC INFORMATION SYSTEM



Python Environment Settings

Chun-Hsiang Chan

Department of Geography,
National Taiwan Normal University





Outline

- 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>

Anaconda Distribution

Free Download

Everything you need to get started in data science on your workstation.

- ✓ Free distribution install
- ✓ Thousands of the most fundamental DS, AI, and ML packages
- ✓ Manage packages and environments from desktop application
- ✓ Deploy across hardware and software platforms

 Code in the Cloud

 Download



Get Additional Installers
  

Download anaconda for windows/ mac/ linux, depending on your system environment



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

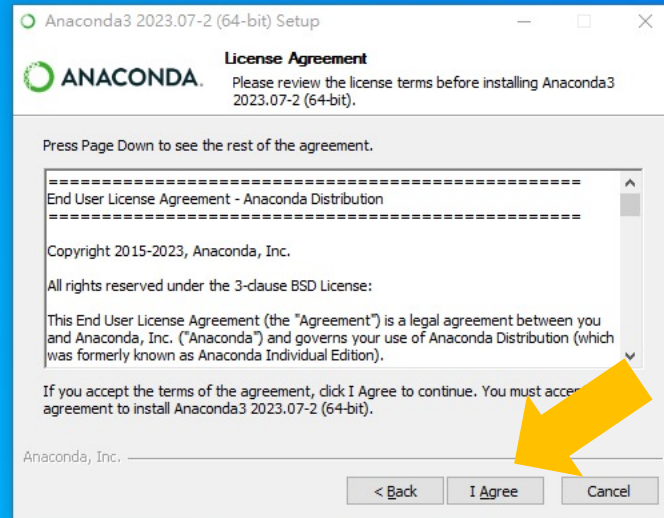
Our securely hosted packages and artifacts are methodically tested and regularly updated.

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

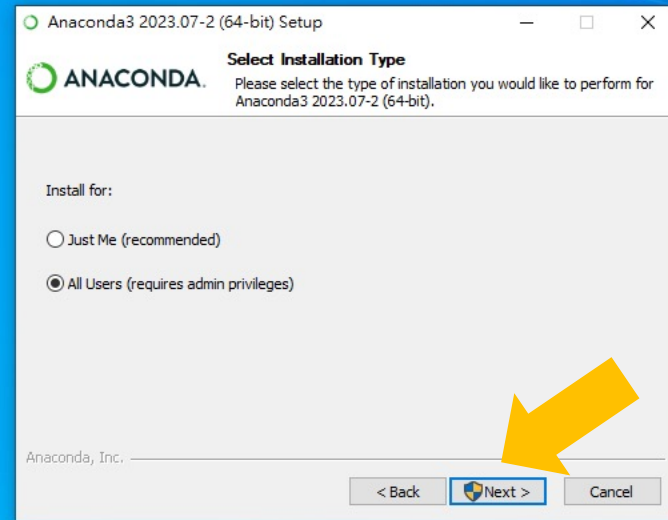
Open the .exe (by Run As Administrator/系統管理員) or .dmg files
Click **Next**



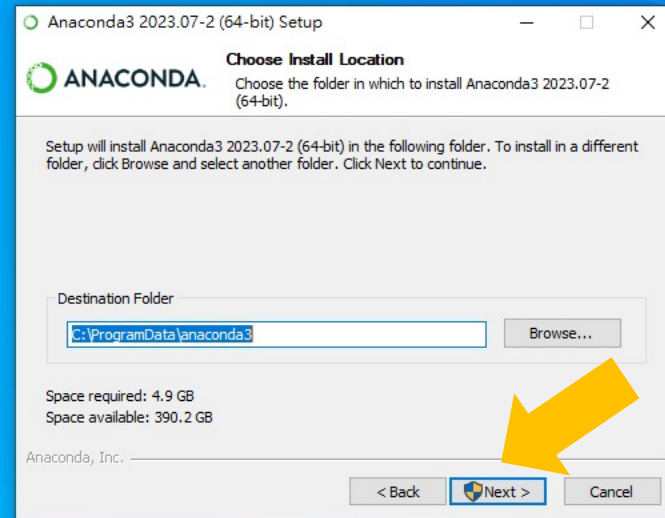
Click "I Agree"



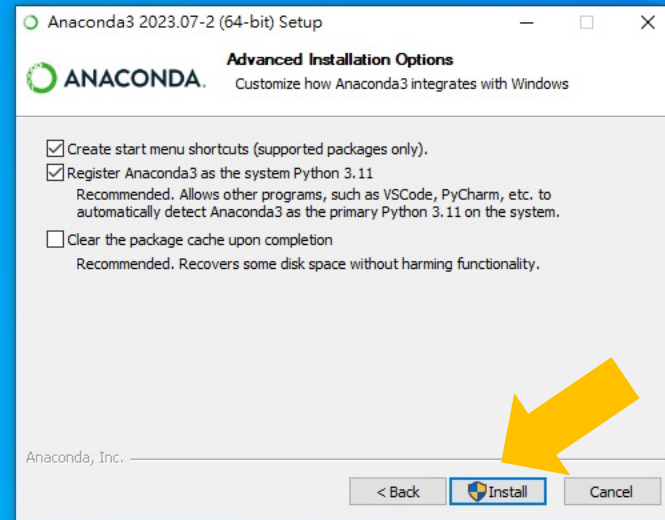
Click "Next"



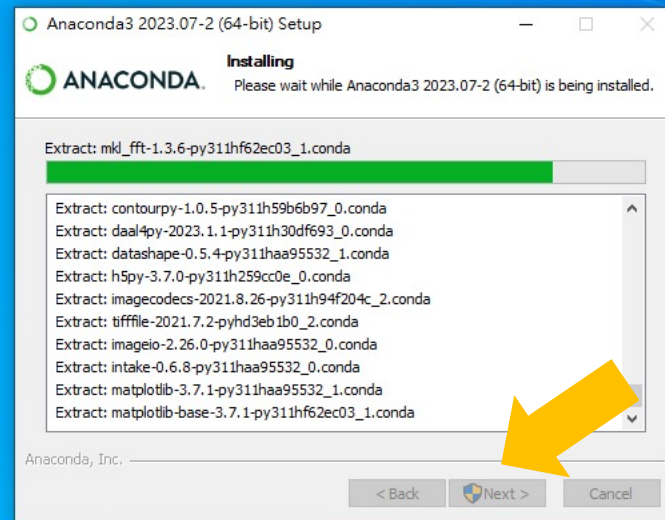
Click "Next"



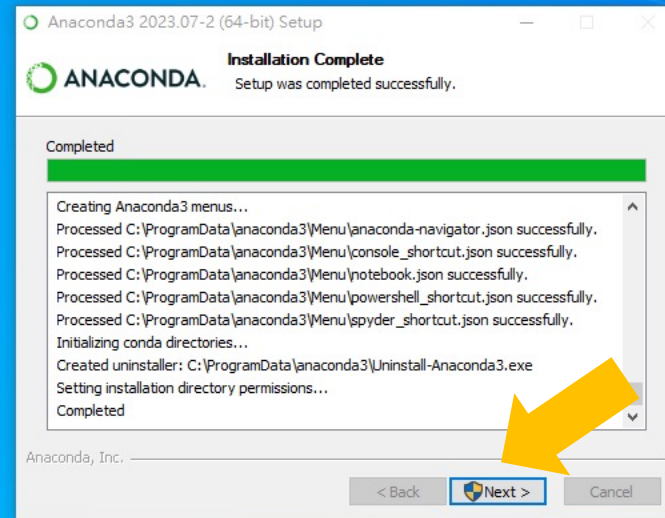
Click "Install"



Click "Next"



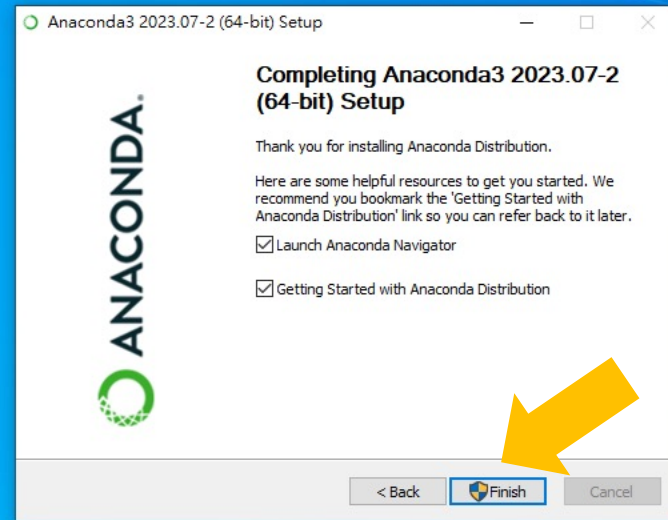
Click "Next"



Click "Next"



Click "Finish"



Click "Launch"



Home

Environments

Learning

Community

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](#)



All applications on base (root) Channels

<p>DataSpell</p> <p>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.</p> <p>Install</p>	<p>Anaconda Notebooks</p> <p>Cloud-hosted notebook service from Anaconda. Launch a preconfigured environment with hundreds of packages and store project files with persistent cloud storage.</p> <p>Launch</p>	<p>CMD.exe Prompt 0.1.1</p> <p>Run a cmd.exe terminal with your current environment from Navigator activated</p> <p>Launch</p>	<p>JupyterLab 3.6.3</p> <p>An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.</p> <p>Launch</p>	<p>Notebook 6.5.4</p> <p>Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.</p> <p>Launch</p>	<p>Powershell Prompt 0.0.1</p> <p>Run a Powershell terminal with your current environment from Navigator activated</p> <p>Launch</p>
<p>Qt Console 5.4.2</p> <p>PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.</p> <p>Launch</p>	<p>Spyder 5.4.3</p> <p>Scientific PYTHON Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features</p> <p>Launch</p>	<p>Datalore</p> <p>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.</p> <p>Launch</p>	<p>IBM Watson Studio Cloud</p> <p>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.</p> <p>Launch</p>	<p>ORACLE Cloud Infrastructure</p> <p>Oracle Data Science Service</p> <p>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</p> <p>Launch</p>	<p>console_shortcut_miniconda 0.1.1</p> <p>Install</p>
<p>Glueviz 1.2.4</p> <p>Multidimensional data visualization across files. Explore relationships within and among related datasets.</p>	<p>Orange 3 3.34.0</p> <p>Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.</p>	<p>powershell_shortcut_miniconda 0.0.1</p>	<p>PyCharm Professional</p> <p>A Full-fledged IDE by JetBrains for both Scientific and Web Python development. Supports HTML, JS, and SQL.</p>	<p>RStudio 1.1.456</p> <p>A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.</p>	



Login

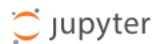
Sign with "email"



Don't have an account yet? [Sign Up](#)

Email Address

Sign In



Quit Logout

Files Running Clusters

Select items to perform actions on them.

Upload New ↕

<input type="checkbox"/> 0	▼	📁 /	Name ▼	Last Modified	File size
<input type="checkbox"/>		📁 3D Objects		4 年前	
<input type="checkbox"/>		📁 Contacts		4 年前	
<input type="checkbox"/>		📁 Desktop		3 天前	
<input type="checkbox"/>		📁 Documents		3 天前	
<input type="checkbox"/>		📁 Downloads		32 分鐘前	
<input type="checkbox"/>		📁 Favorites		4 年前	
<input type="checkbox"/>		📁 Links		4 年前	
<input type="checkbox"/>		📁 Music		4 年前	
<input type="checkbox"/>		📁 OneDrive		4 天前	
<input type="checkbox"/>		📁 Pictures		4 年前	
<input type="checkbox"/>		📁 Saved Games		4 年前	
<input type="checkbox"/>		📁 Searches		4 年前	
<input type="checkbox"/>		📁 Videos		4 天前	

Click "Documents"



jupyter

Quit **New Folder**

Files Running Clusters

Select items to perform actions on them.


0 / Documents

- ..
- python
- Software
- 自訂 Office 範本

Upload New

- Notebook:
- Python 3 (ipykernel)
- Other:
- Text File
- Folder**
- terminal



 jupyter

Quit Logout

New Python3

Files Running Clusters

Select items to perform actions on them.

0 / Documents / python

..

The notebook list is empty.

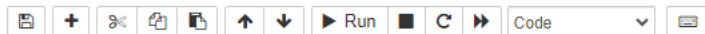
Upload New

Notebook:
Python 3 (ipykernel)
Other:
Text File
Folder
Terminal





Logout



In []: |

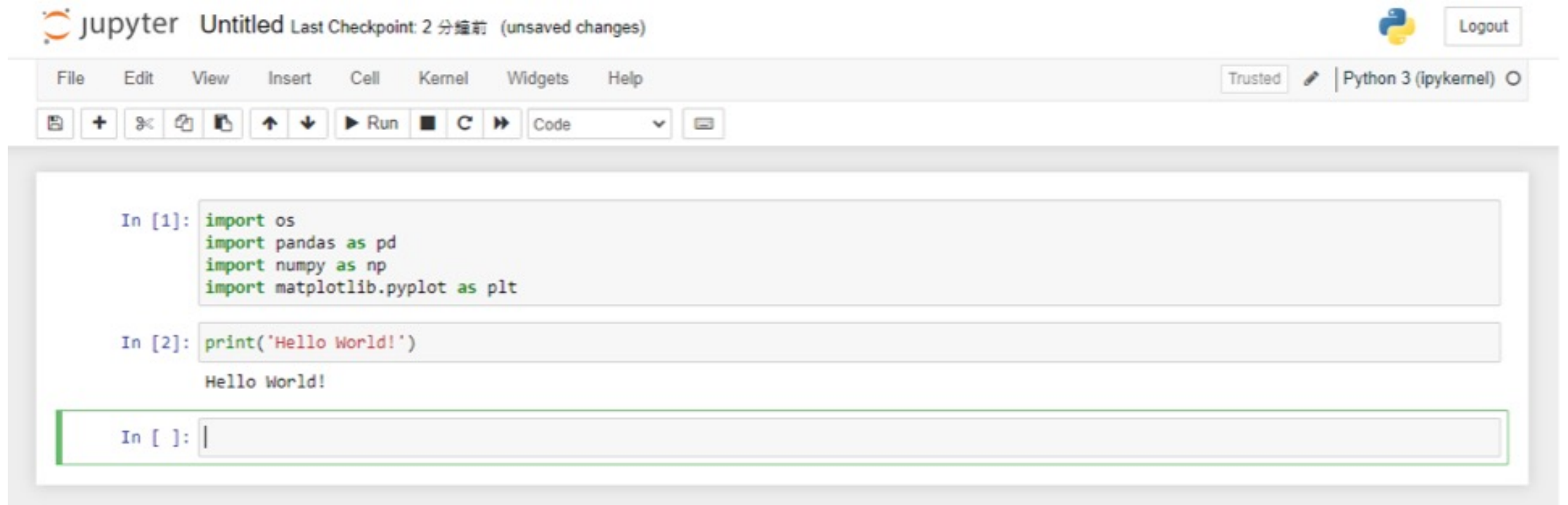
Cell

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`, `⌘⌘`: restart the kernel (with dialog)
- `Esc`: close the pager
- `Q`: close the pager
- `⇧L`: toggles line numbers in all

Hello World



The image shows a Jupyter Notebook interface. At the top left, the Jupyter logo is followed by the text "jupyter Untitled Last Checkpoint: 2 分鐘前 (unsaved changes)". On the top right, there is a Python logo and a "Logout" button. Below this is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". To the right of the menu bar, it says "Trusted" with a pencil icon and "Python 3 (ipykernel) O". Below the menu bar is a toolbar with icons for file operations, navigation, and execution. The main area contains three code cells:

```
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 [ ]: |
```

Rename Notebook

Enter a new notebook name:

Rename

Untitled

Cancel Rename

```
In [1]: import os
import pandas
import numpy
import matplotlib
```

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

```
In [ ]:
```

Rename Notebook

Enter a new notebook name:

Week 01 Hello World

Cancel Rename

Rename



```
In [1]: import os
import pandas
import numpy
import matplotlib
```


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

```
In [ ]:
```

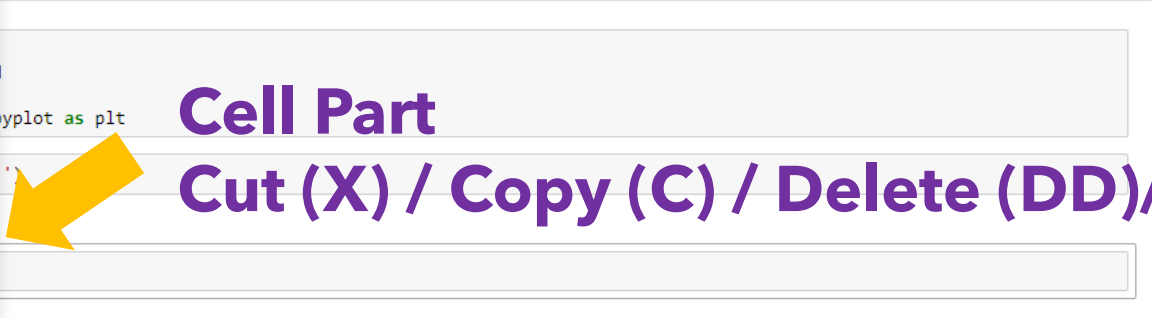
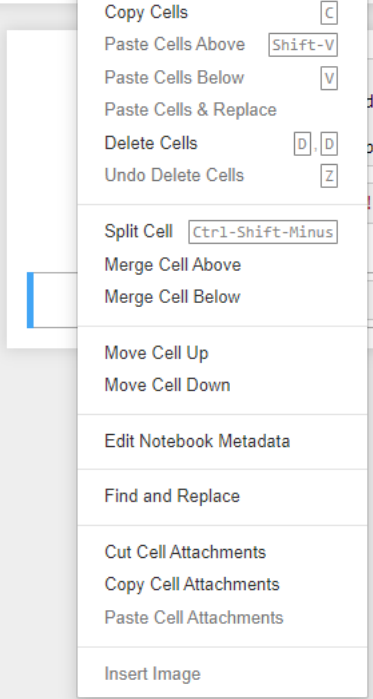
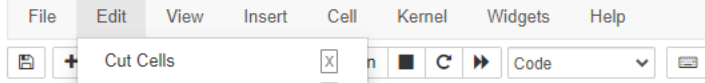


- New Notebook
- Open...
- Make a Copy...
- Save as...
- Rename...
- Save and Checkpoint Ctrl-S
- Revert to Checkpoint
- Print Preview
- Download as
- Trusted Notebook
- Close and Halt

Open/ Save/ Copy/ Download
Download as ... PDF / HTML / ...



```
from IPython.display import Image, HTML  
import numpy as np  
import matplotlib.pyplot as plt  
  
plt.imshow(Image(url='http://www.python.org/'))  
plt.show()  
HTML('Hello World!')
```

Cell Part
Cut (X) / Copy (C) / Delete (DD) / Paste (V) / ...



Run Cells Ctrl-Enter

Run Cells and Select Below Shift-Enter

Run Cells and Insert Below Alt-Enter

Run All

Run All Above

Run All Below

Cell Type

Current Outputs

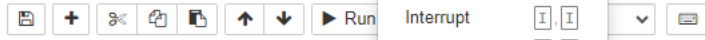
All Output

```
In [1]: import os
import pandas
import numpy
import matplotlib

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



Run Cell/ Run All (Above/ Below)



```
In [1]: import os
import pandas as pd
import numpy as np
import matplotlib.p

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

In [ ]:
```

- Interrupt
- Restart
- Restart & Clear Output
- Restart & Run All
- Reconnect
- Shutdown
- Change kernel



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



```
In [1]: import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

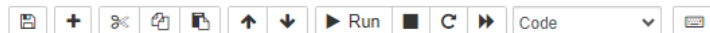
In [2]: print('Hello World!')
Hello World!

In [ ]:
```

- 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



Shortcuts



```
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)
```

Print variable

[0, 1, 2, 3, 4, 5, 6]

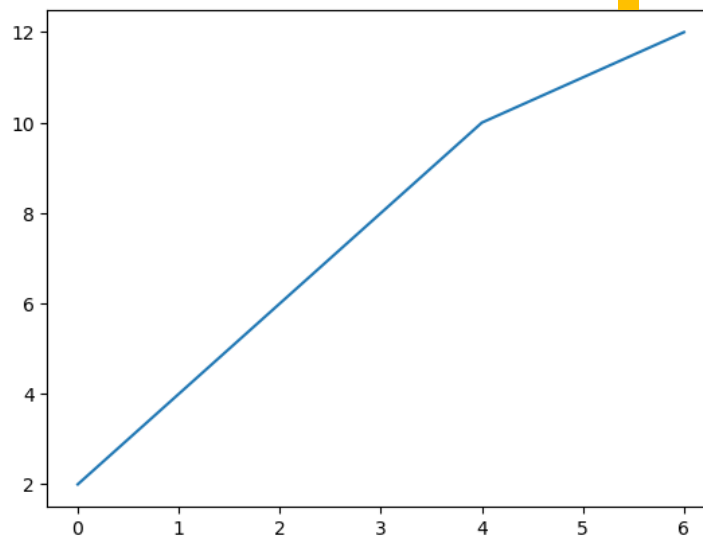
```
In [5]: a
```

View variable

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

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

Plot variable



Home

Environments

Learning

Community

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](#)



All applications ▾ on base (root) ▾ Channels

Close Jupyter

↻

<p>DataSpell</p> <p>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.</p> <p>Install</p>	<p>Anaconda Notebooks</p> <p>Cloud-hosted notebook service from Anaconda. Launch a preconfigured environment with hundreds of packages and store project files with persistent cloud storage.</p> <p>Launch</p>	<p>CMD.exe Prompt</p> <p>Run a command prompt in your environment.</p> <p>Launch</p>	<p>JupyterLab</p> <p>3.6.3 Environment for interactive computing, based on the notebook and Architecture.</p> <p>Launch</p>	<p>Notebook</p> <p>6.5.4 Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.</p> <p>Launch</p>	<p>Powershell Prompt</p> <p>0.0.1 Run a Powershell terminal with your current environment from Navigator activated</p> <p>Launch</p>
<p>Qt Console</p> <p>5.4.2 PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.</p> <p>Launch</p>	<p>Spyder</p> <p>5.4.3 Scientific PYTHON Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features</p> <p>Launch</p>	<p>DataRobot</p> <p>Kick-start your machine learning projects in seconds. Enjoy data science with R and Python from no-code automations. Use DataRobot online for free.</p> <p>Launch</p>	<p>Data Science Studio Cloud</p> <p>Cloud provides you the ability to and visualize data, to data, to create and train models. Prepare data and build models, using open source data science tools or visual modeling.</p> <p>Launch</p>	<p>ORACLE Cloud Infrastructure</p> <p>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</p> <p>Launch</p>	<p>console_shortcut_miniconda</p> <p>0.1.1</p> <p>Install</p>
<p>Glueviz</p> <p>1.2.4 Multidimensional data visualization across files. Explore relationships within and among related datasets.</p>	<p>Orange 3</p> <p>3.34.0 Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.</p>	<p>powershell_shortcut_miniconda</p> <p>0.0.1</p>	<p>PyCharm Professional</p> <p>A full-fledged IDE by JetBrains for both Scientific and Web Python development. Supports HTML, JS, and SQL.</p>	<p>RStudio</p> <p>1.1.456 A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.</p>	

CMD.exe Prompt Close running applications

There are some applications running. Please select the applications you want to close on quit:

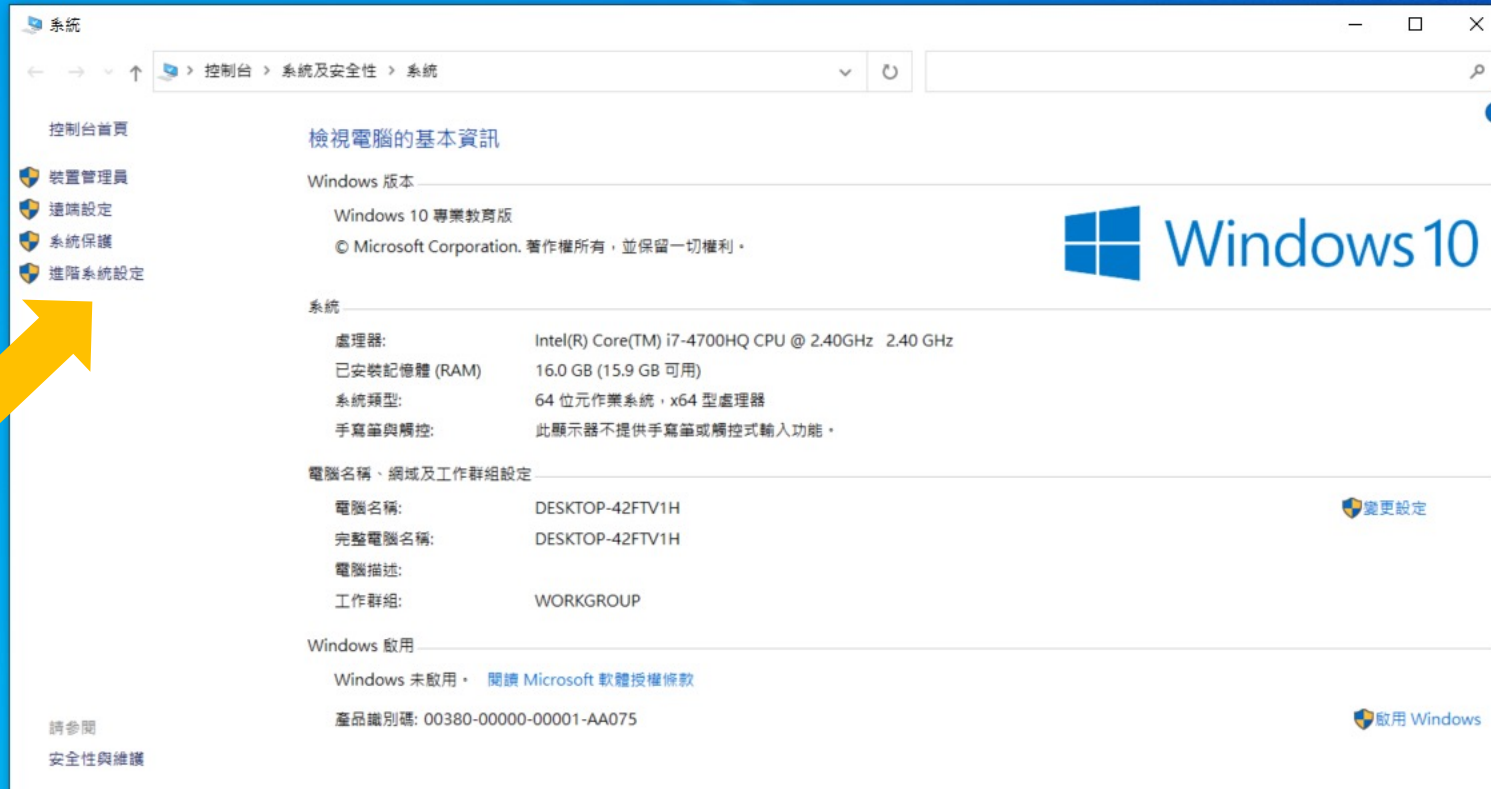
- notebook

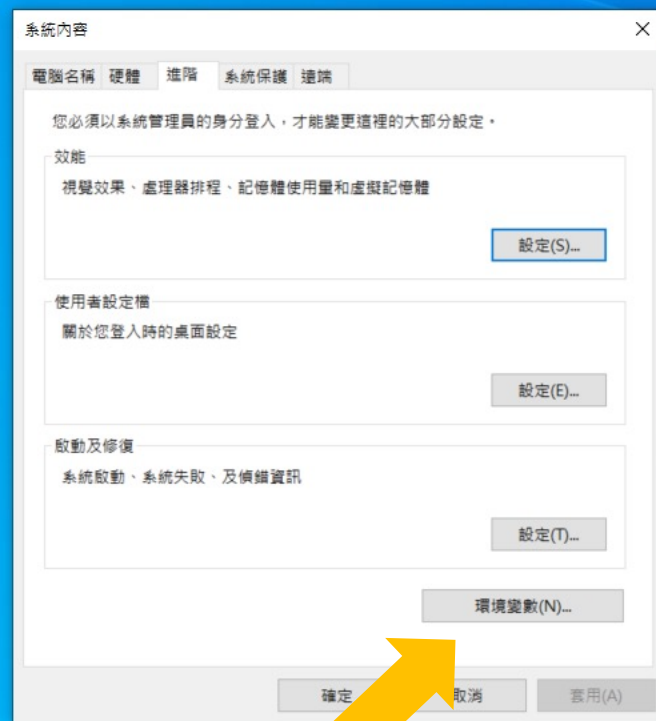
Don't show again

[Cancel](#) [Quit](#)

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"



系統內容

電腦名稱

您必須以...

效能

視覺效

使用者

關於您

系統設

環境變數

TooDou 的使用者變數(U)

變數	值
OneDrive	C:\Users\TooDou\OneDrive
Path	C:\Users\TooDou\AppData\Local\Microsoft...
TEMP	C:\Users\TooDou\AppData\Local\Temp
TMP	C:\Users\TooDou\AppData\Local\Temp

新增(N)... 編輯(E)... 刪除(D)

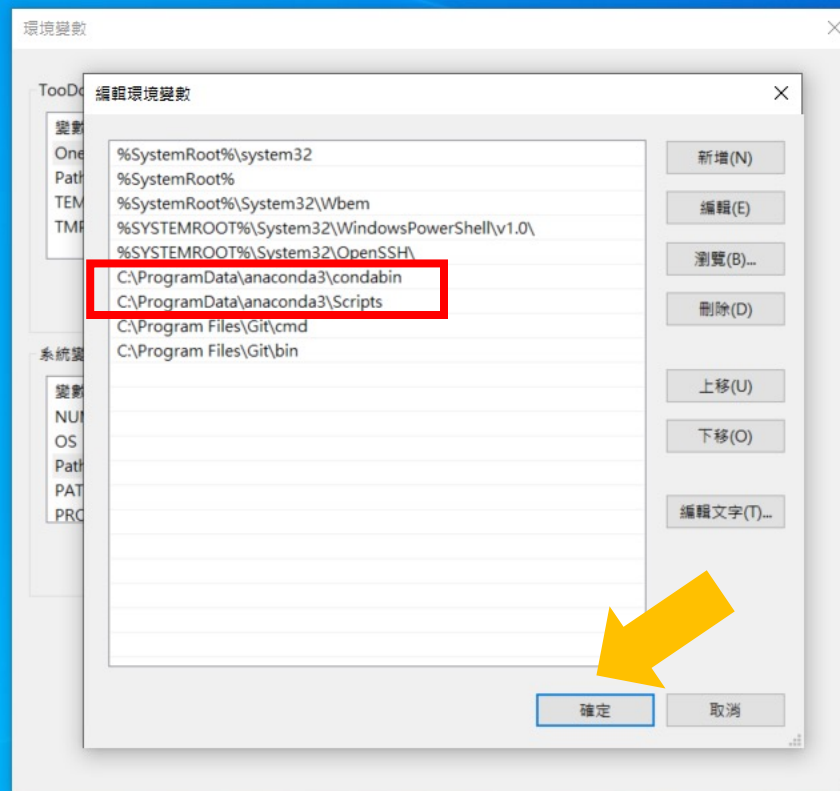
系統變數(S)

變數	值
OS	Windows_NT
Path	C:\Windows\system32;C:\Windows;C:\Wind...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;...
PROCESSOR_ARC...	AMD64
PROCESSOR_IDEN...	Intel64 Familv 6 Model 60 Steppoing 3. Genu...

新增(W)... 編輯(I)... 刪除(L)

確定 取消

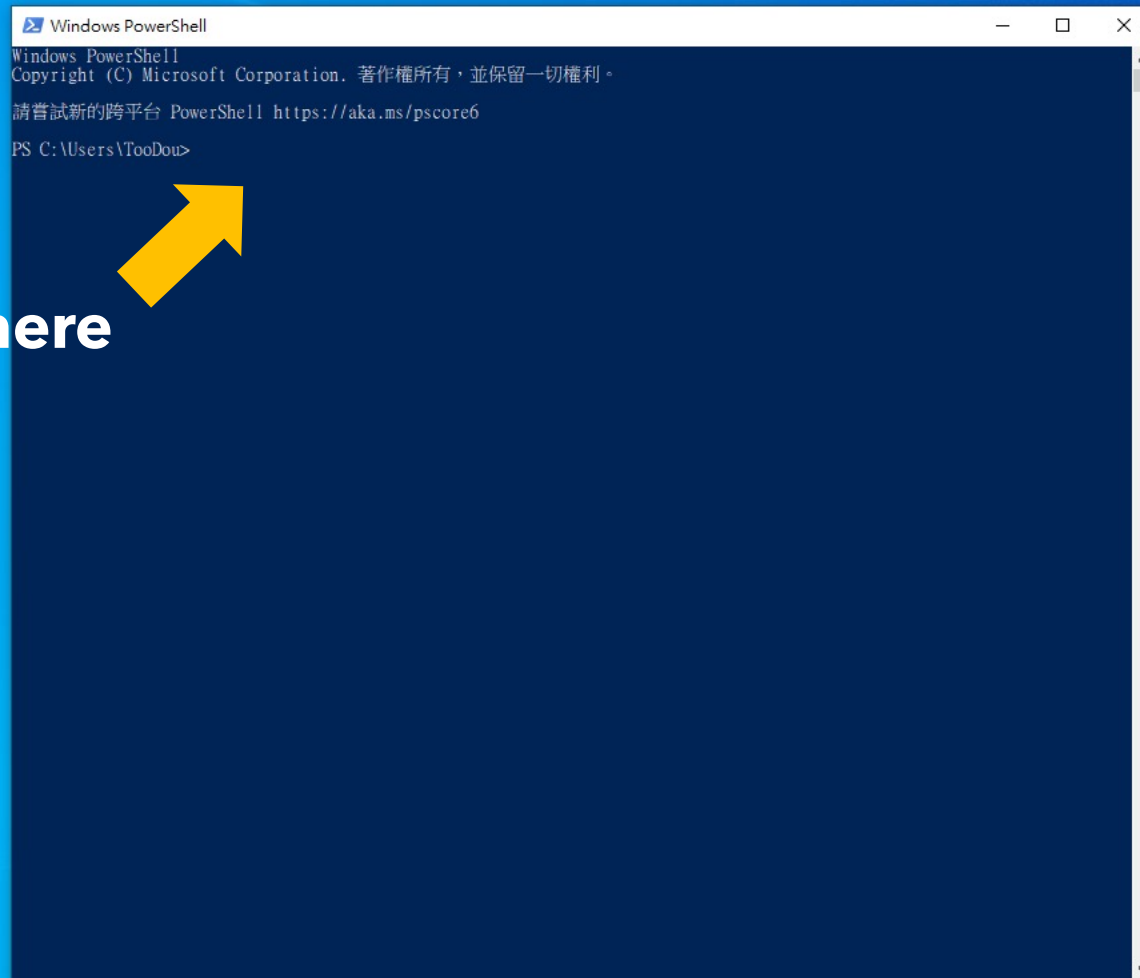
Set “環境變數” (environmental variables)



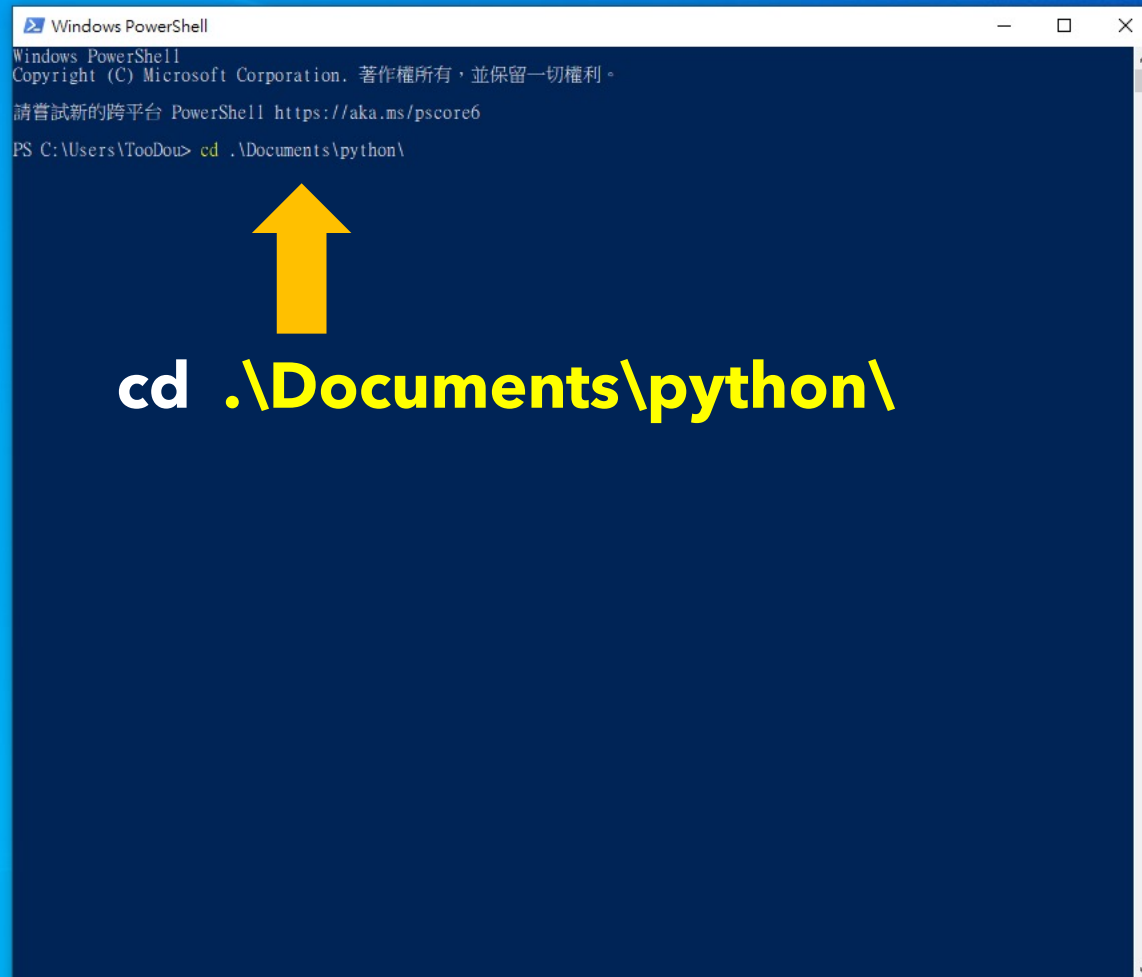
The image shows a Windows Start menu search results page. The search term is "學校基本資訊" (School Basic Information). The results are displayed in a grid. A yellow arrow points to the "Windows PowerShell" entry in the left-hand list. The right-hand grid contains icons for Microsoft 365 apps (Word, Excel, Outlook, PowerPoint, OneNote for Business), OneDrive, Teams, and Microsoft Edge. The taskbar at the bottom shows the date and time as 11 SEPTEMBER 2023, 11:04 AM.

Open "Windows PowerShell"

Type here



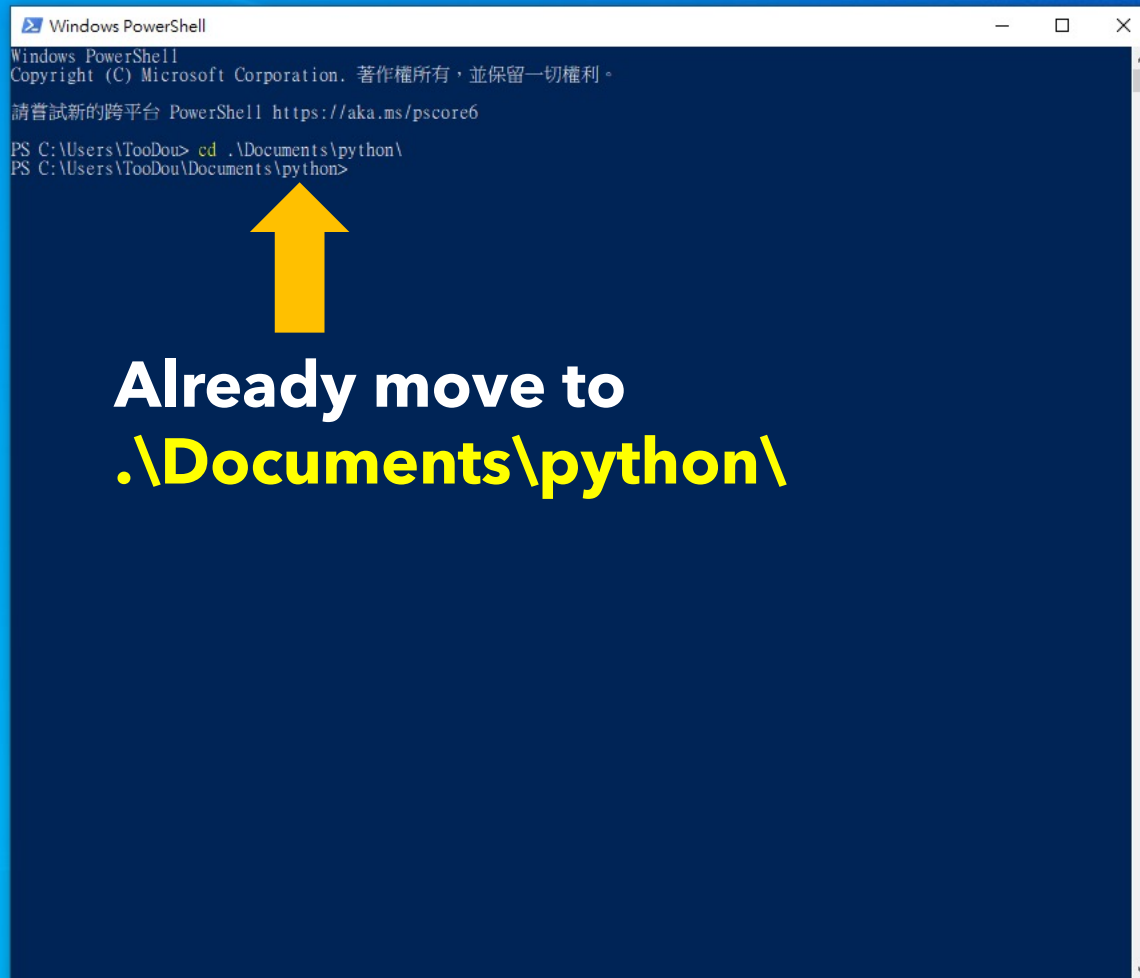
```
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou>
```



The image shows a Windows PowerShell terminal window with a dark background. The window title is "Windows PowerShell". The text inside the window reads: "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>", and "PS C:\Users\TooDou> cd .\Documents\python\". A large yellow arrow points upwards from the command text below to the command text inside the terminal window.

```
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

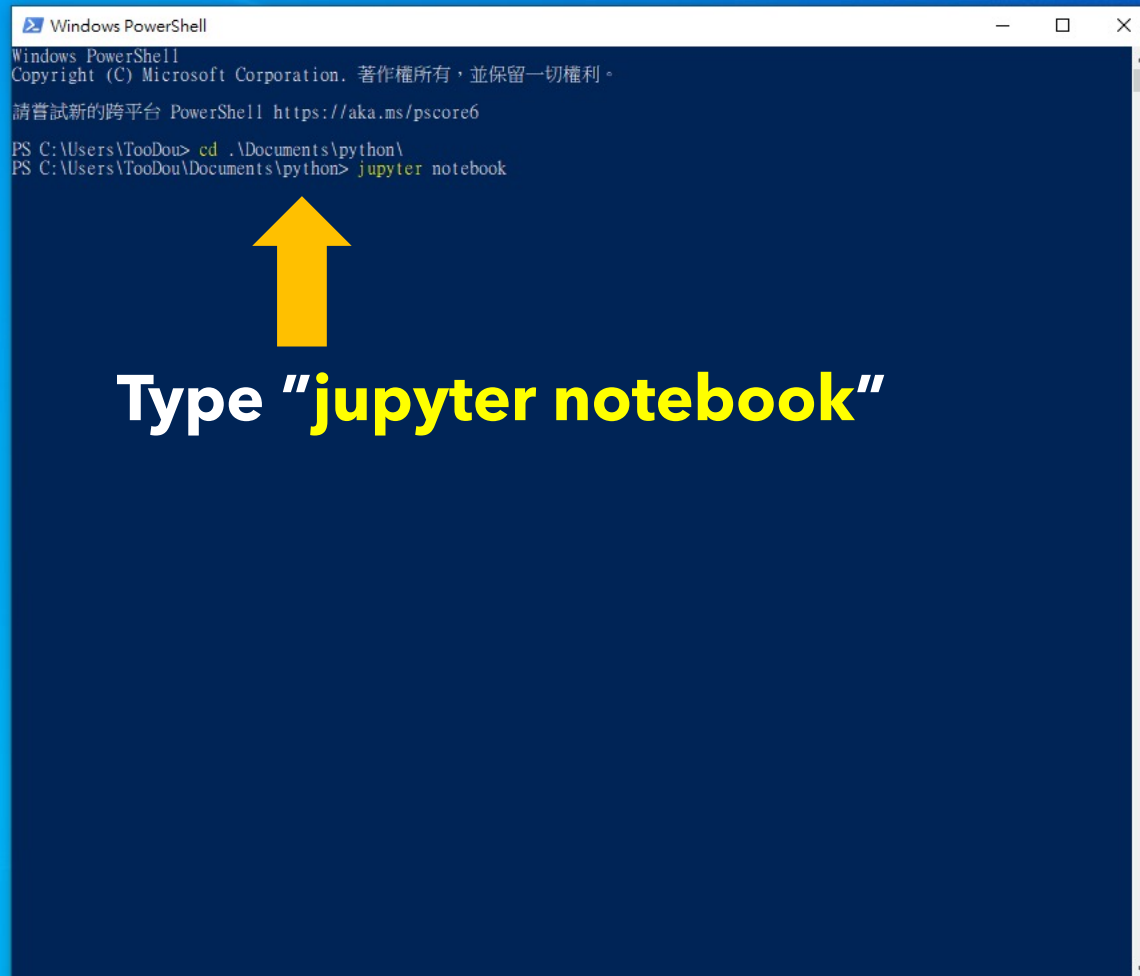


```
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6

PS C:\Users\TooDou> cd .\Documents\python\
PS C:\Users\TooDou\Documents\python>
```



Already move to
.\Documents\python



```
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> jupyter notebook
```



Type "jupyter notebook"

```
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> jupyter notebook

JupyterLab

Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.
https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html

Please note that updating to Notebook 7 might break some of your extensions.

[W 21:05:26.715 NotebookApp] Loading JupyterLab as a classic notebook (v6) extension.
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab extension loaded from C:\ProgramData\anaconda3\Lib\site-packages\jupyterlab
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab application directory is C:\ProgramData\anaconda3\share\jupyter\lab
[I 21:05:28.605 NotebookApp] The port 8888 is already in use, trying another port.
[I 21:05:28.621 NotebookApp] Serving notebooks from local directory: C:\Users\TooDou\Documents\python
[I 21:05:28.621 NotebookApp] Jupyter Notebook 6.5.4 is running at:
[I 21:05:28.621 NotebookApp] http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[I 21:05:28.621 NotebookApp] or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[I 21:05:28.621 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 21:05:28.636 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/TooDou/AppData/Roaming/jupyter/runtime/nbserver-1700-open.html
Or copy and paste one of these URLs:
http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
```



Successfully Open


```
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> jupyter notebook

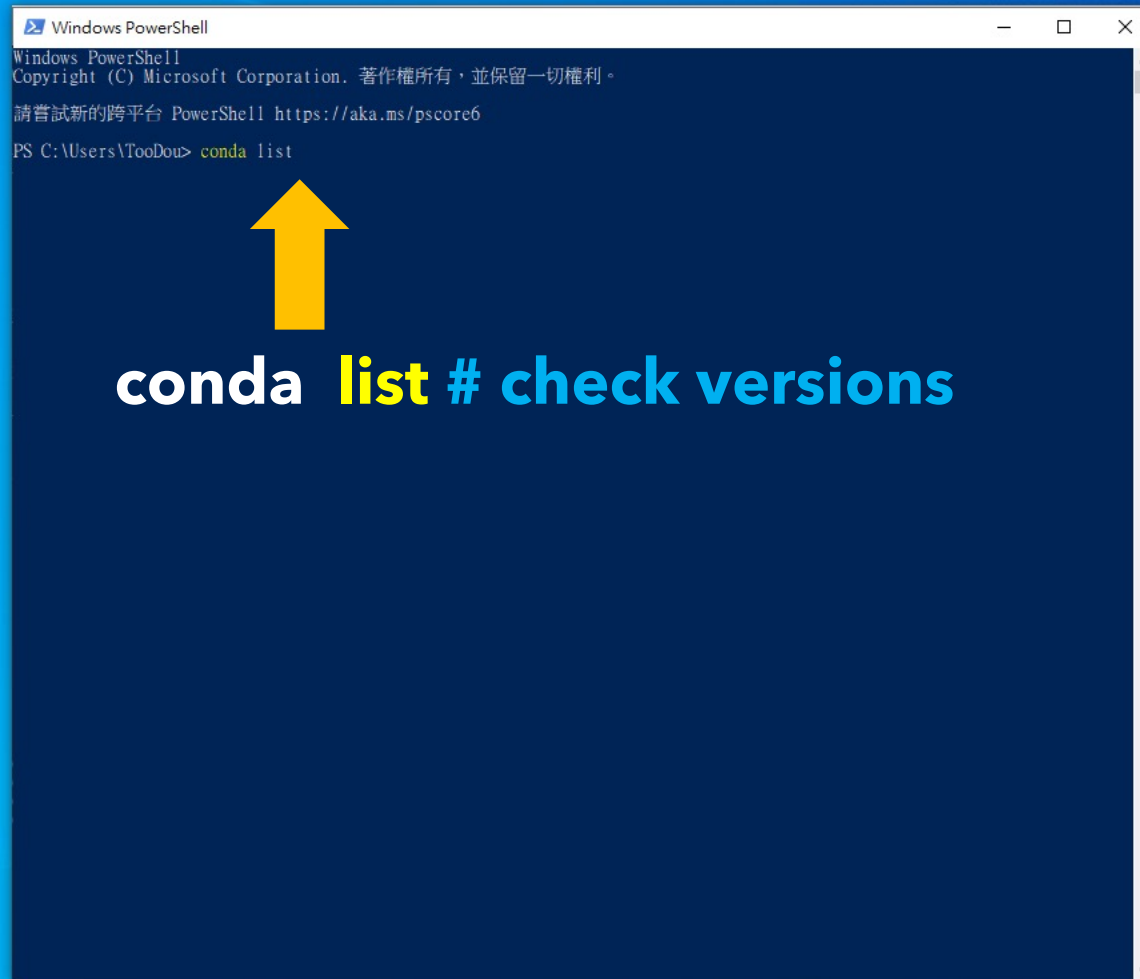
Jupyter Notebook

Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.
https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html

Please note that updating to Notebook 7 might break some of your extensions.

[W 21:05:26.715 NotebookApp] Loading JupyterLab as a classic notebook (v6) extension.
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab extension loaded from C:\ProgramData\anaconda3\Lib\site-packages\jupyterlab
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab application directory is C:\ProgramData\anaconda3\share\jupyter\lab
[I 21:05:28.605 NotebookApp] The port 8888 is already in use, trying another port.
[I 21:05:28.621 NotebookApp] Serving notebooks from local directory: C:\Users\TooDou\Documents\python
[I 21:05:28.621 NotebookApp] Jupyter Notebook 6.5.4 is running at:
[I 21:05:28.621 NotebookApp] http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[I 21:05:28.621 NotebookApp] or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[I 21:05:28.621 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 21:05:28.636 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/TooDou/AppData/Roaming/jupyter/runtime/nbserver-1700-open.html
Or copy and paste one of these URLs:
http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
[I 21:17:33.645 NotebookApp] Interrupted...
[I 21:17:33.645 NotebookApp] Shutting down 0 kernels
[I 21:17:33.645 NotebookApp] Shutting down 0 terminals
PS C:\Users\TooDou\Documents\python>
```



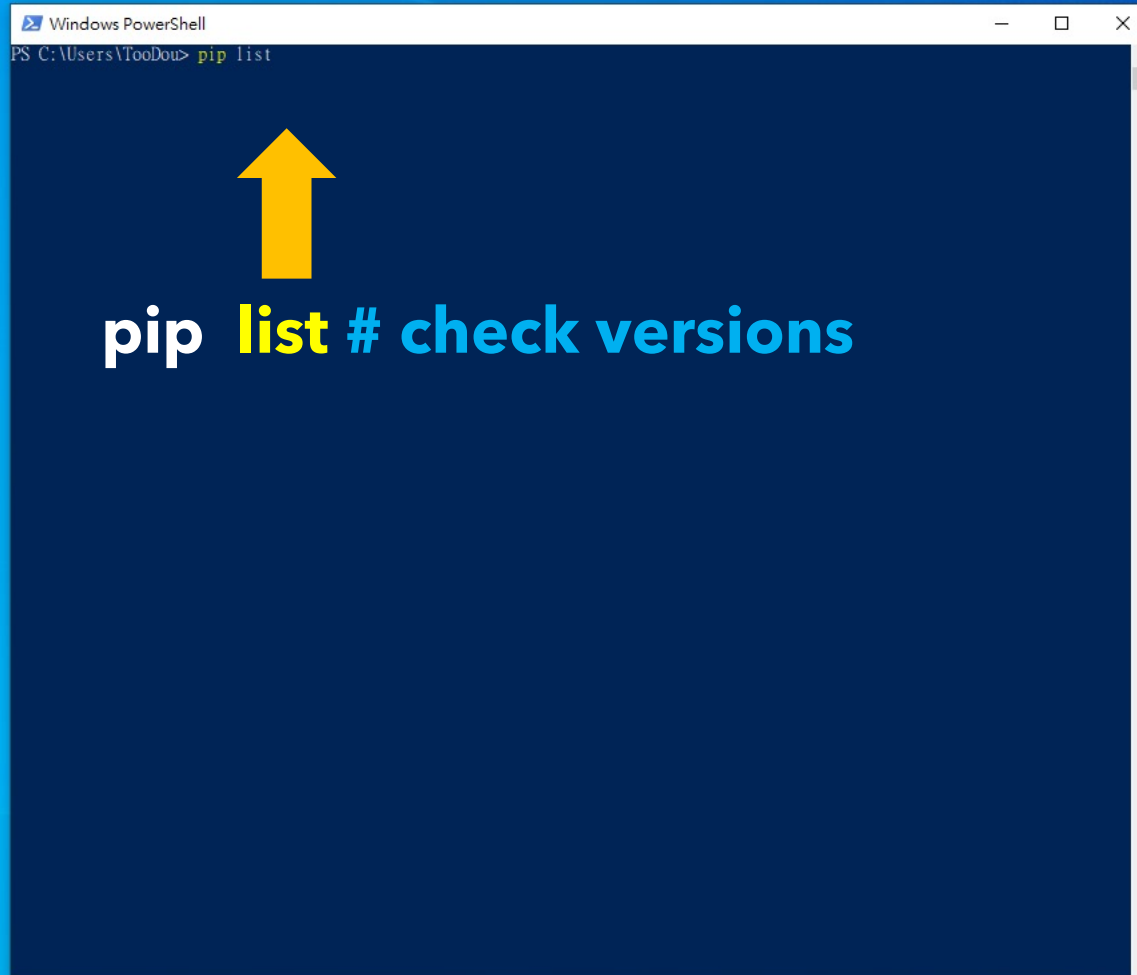
```
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou> conda list
```

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
unicode 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 h4
wrap 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**

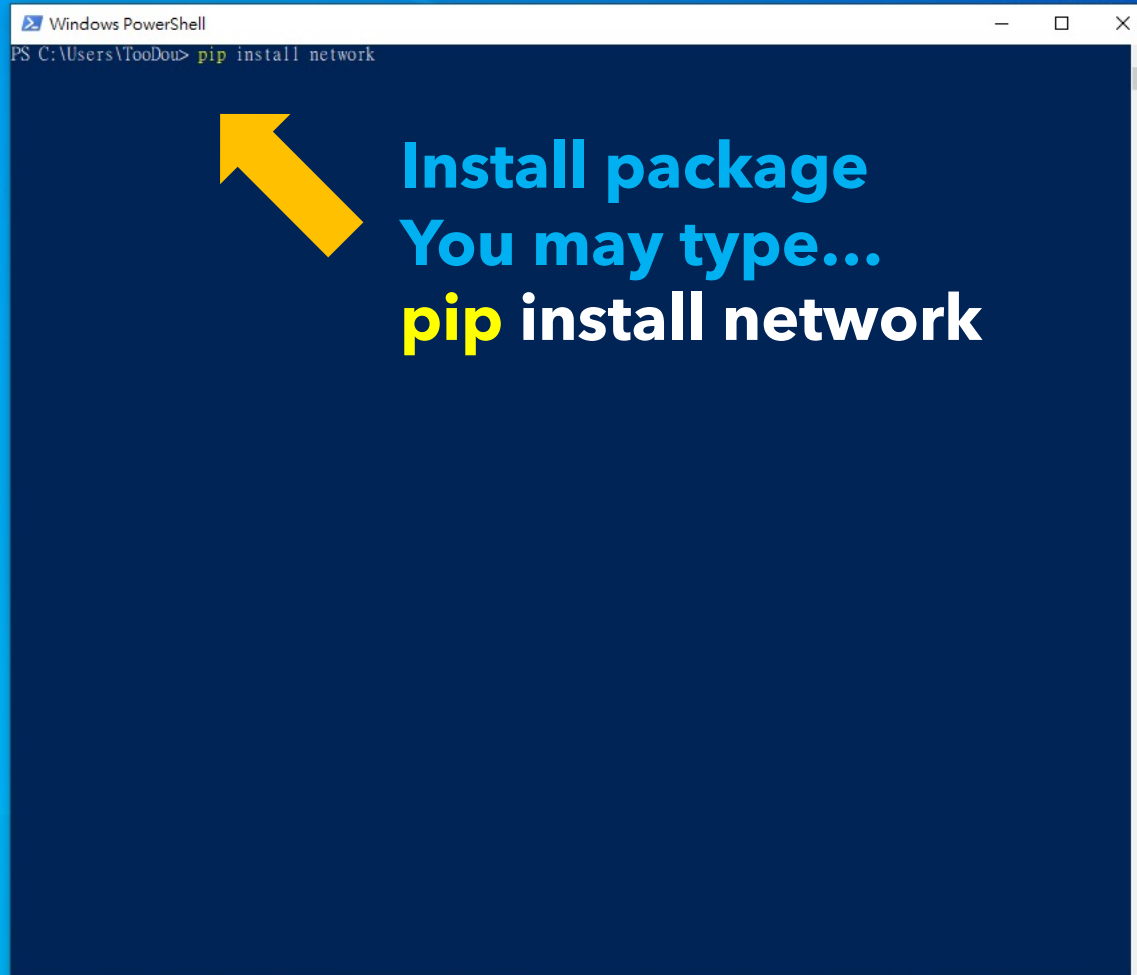


```
Windows PowerShell
PS C:\Users\TtooDou> pip list
```

pip list # check versions

```
Windows PowerShell
tables 3.8.0
tabulate 0.8.10
TBB 0.2
tblib 1.7.0
tenacity 8.2.2
terminado 0.17.1
text-unidecode 1.3
textdistance 4.2.1
threadpoolctl 2.2.0
three-merge 0.1.1
tiffifile 2021.7.2
tinycss2 1.2.1
tldextract 3.2.0
toml 0.10.2
tomlkit 0.11.1
toolz 0.12.0
tornado 6.3.2
tqdm 4.65.0
traitlets 5.7.1
transformers 2.1.1
Twisted 22.10.0
twisted-iocpsupport 1.0.2
typing_extensions 4.7.1
uc-micro-py 1.0.1
ujson 5.4.0
Unidecode 1.2.0
urllib3 1.26.16
w3lib 1.21.0
watchdog 2.1.6
wewidth 0.2.5
webencodings 0.5.1
websocket-client 0.58.0
Werkzeug 2.2.3
whatthepatch 1.0.2
wheel 0.38.4
widgetsnbextension 4.0.5
win-inet-pton 1.1.0
wrapt 1.14.1
xarray 2023.6.0
xlwings 0.29.1
xyzservices 2022.9.0
y-py 0.5.9
yapf 0.31.0
yarl 1.8.1
ypy-websocket 0.8.2
zict 2.2.0
zipp 3.11.0
zope.interface 5.4.0
zstandard 0.19.0
PS C:\Users\TtooDou>
```

 **All packages versions**



Windows PowerShell

```
PS C:\Users\TouDou> pip install network
```

Install package
You may type...
pip install network

The image shows a Windows PowerShell terminal window with a dark background. The title bar reads "Windows PowerShell". The command prompt shows "PS C:\Users\TouDou> pip install network". A yellow arrow points from the text overlay to the "pip" command in the terminal. The text overlay consists of three lines: "Install package" in light blue, "You may type..." in light blue, and "pip install network" in white with "pip" in yellow.

```
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=67bb1cf52bf367ee4cf62188eb5b51870c4b8f90cbece8231d84f3d72a69e7e2
  Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\4\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=67bb1cf52bf367ee4cf62188eb5b51870c4b8f90cbece8231d84f3d72a69e7e2
  Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\4\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=67bb1cf52bf367ee4cf62188eb5b51870c4b8f90cbece8231d84f3d72a69e7e2
  Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\4\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): r
epo.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: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 No
ne
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 No
ne
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/msys2/win-64/current_repodata.json HTTP/1.1" 200 N
one
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

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads



Older releases are available and the [Git source repository](#) is on GitHub.

GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).

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

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Download for Windows

[Click here to download](#) the latest (**2.42.0**) **64-bit** version of **Git for Windows**. This is the most recent **maintained build**. It was released **11 days ago**, on 2023-08-30.

Other Git for Windows downloads

Standalone Installer

[32-bit Git for Windows Setup.](#)

[64-bit Git for Windows Setup.](#)

Portable ("thumbdrive edition")

[32-bit Git for Windows Portable.](#)

[64-bit Git for Windows Portable.](#)

Using winget tool

Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version **2.42.0**. If you want the newer version, you can build it from [the source code](#).

Now What?

Now that you have downloaded Git, it's time to start using it.



Read the Book

Dive into the Pro Git book and learn at your own pace.



Download a GUI

Several free and commercial GUI tools are available for the Windows platform.



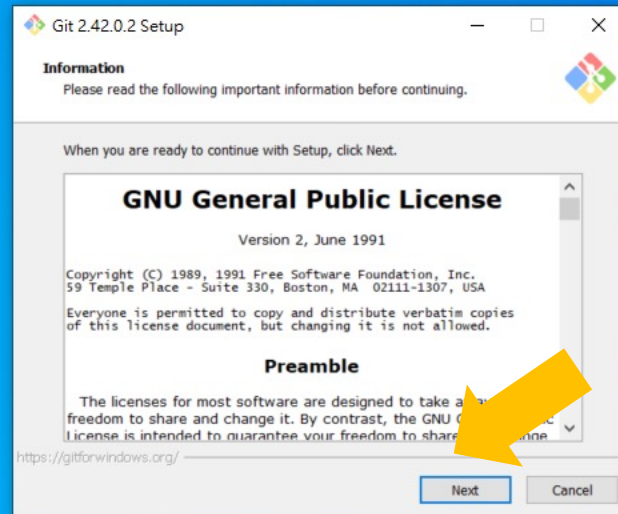
Get Involved

A knowledgeable Git community is available to answer your questions.

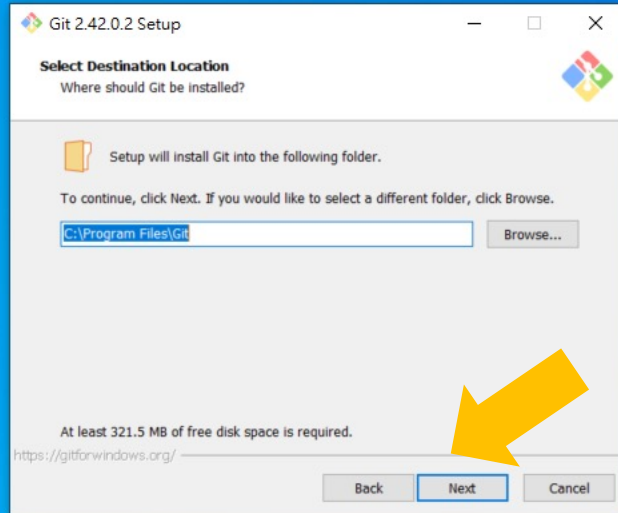


**Download here
If your computer is
windows ...**

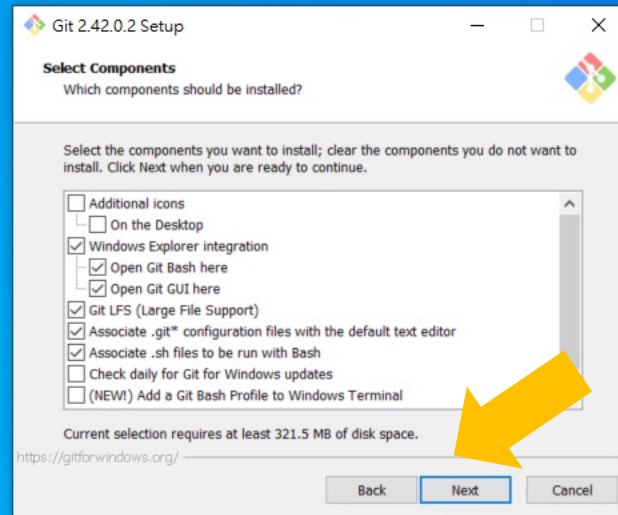
Click "Next"



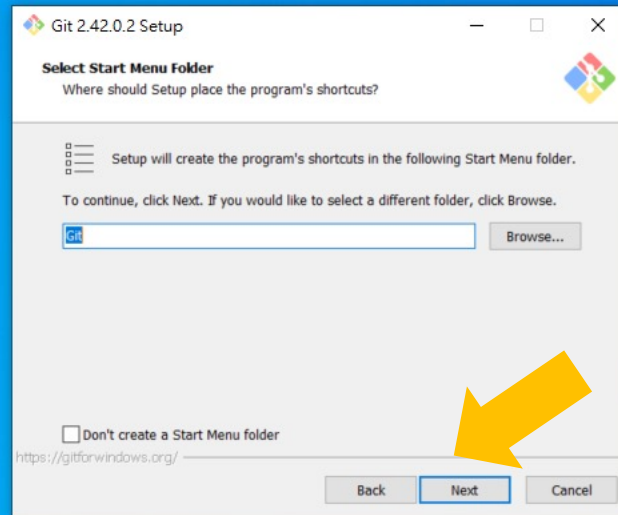
Click "Next"



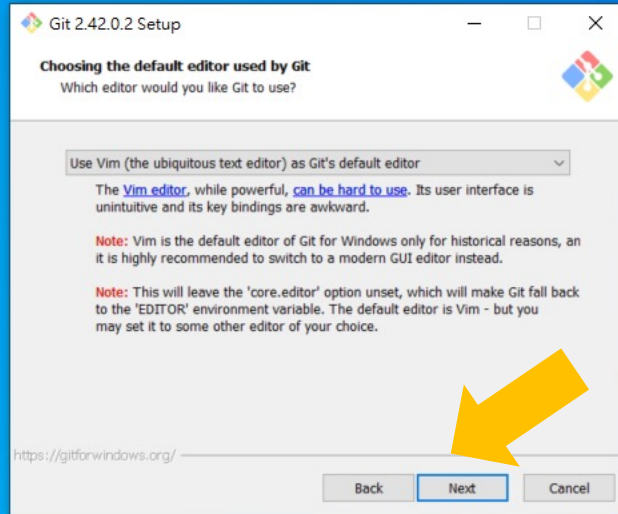
Click "Next"



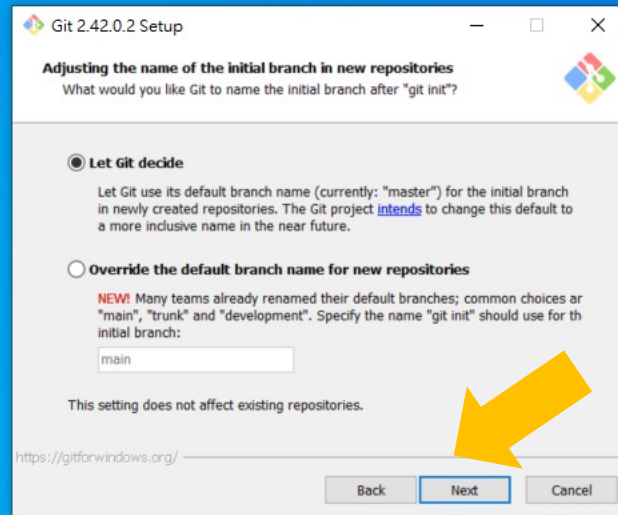
Click "Next"



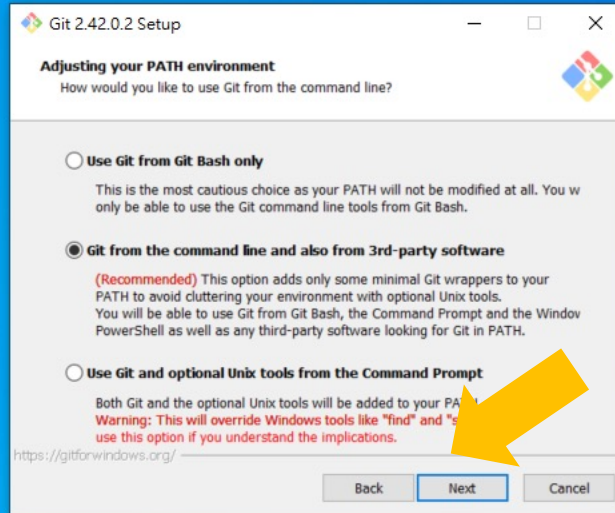
Click "Next"



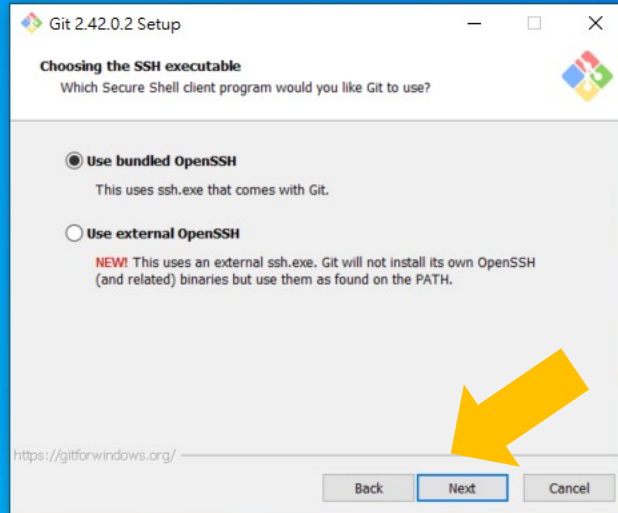
Click "Next"



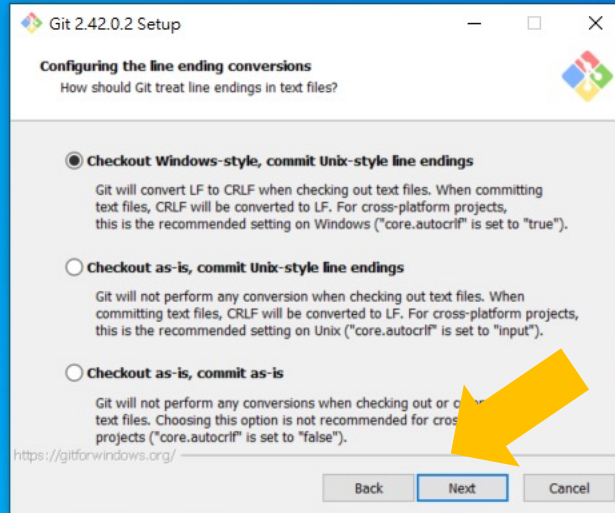
Click "Next"



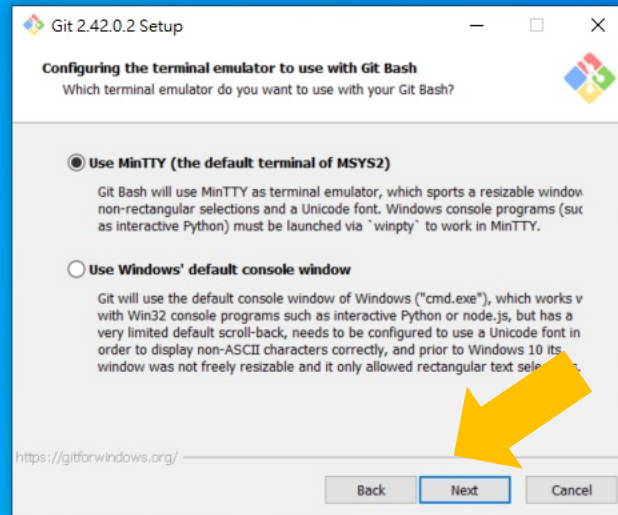
Click "Next"



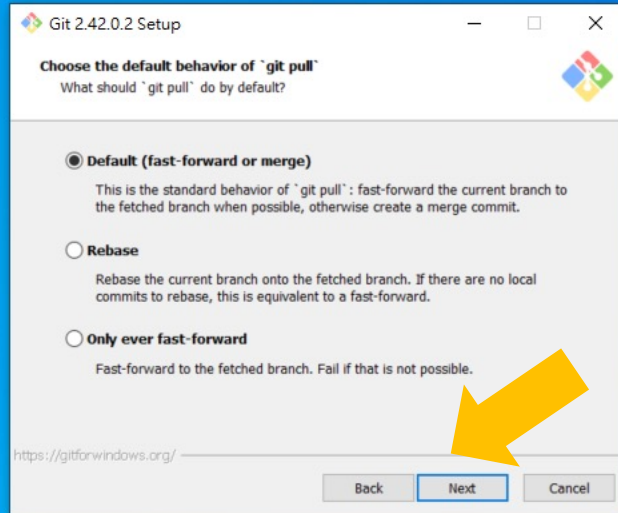
Click "Next"



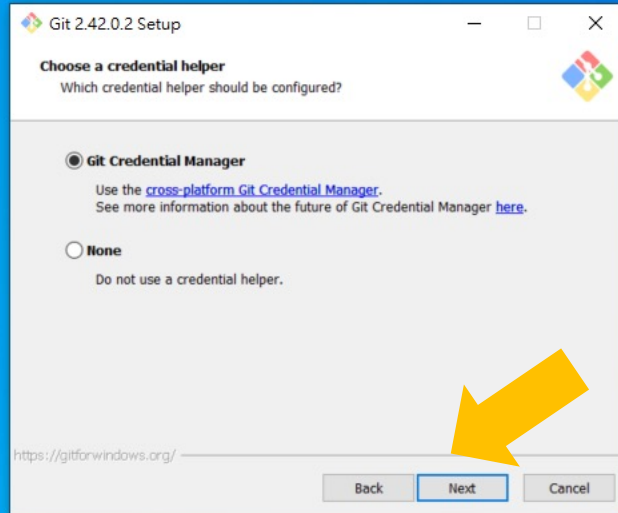
Click "Next"



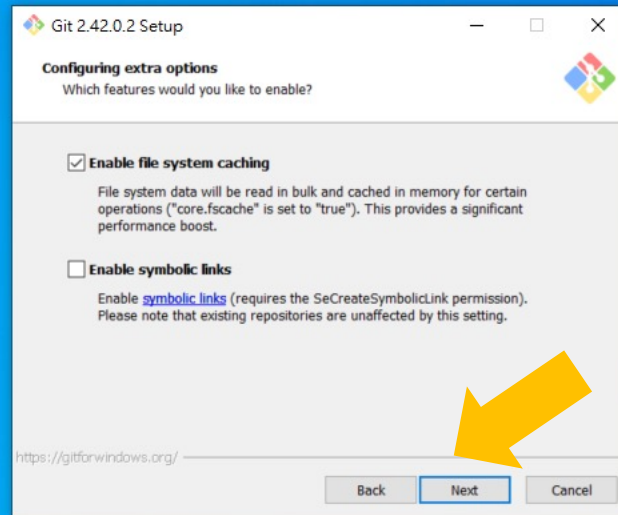
Click "Next"



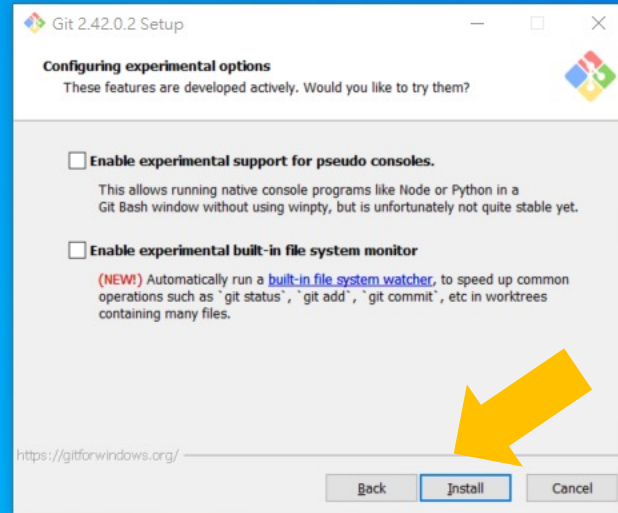
Click "Next"



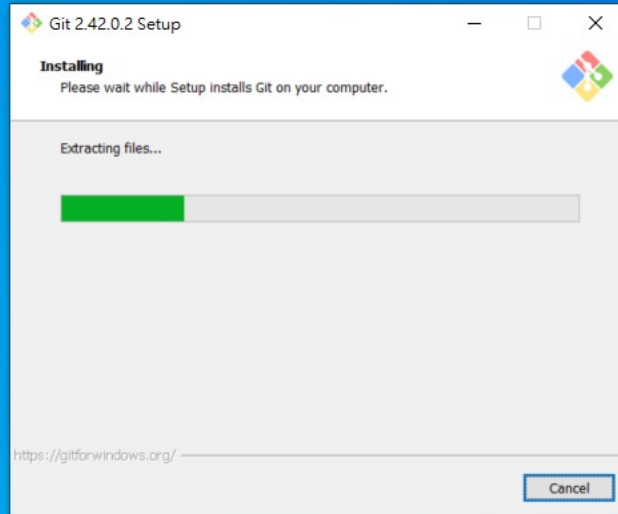
Click "Next"



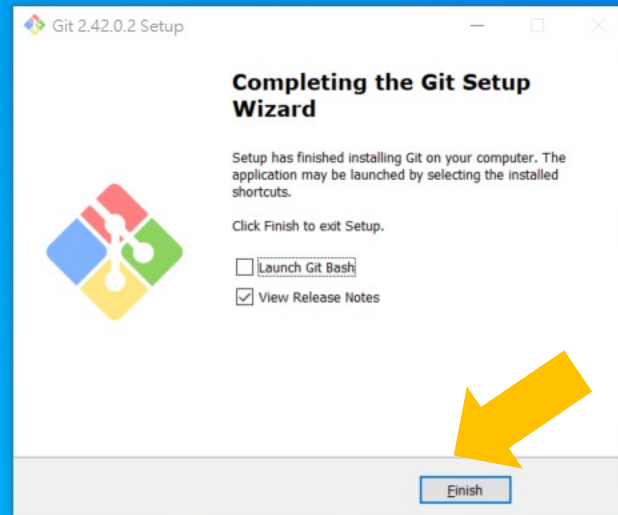
Click "Install"



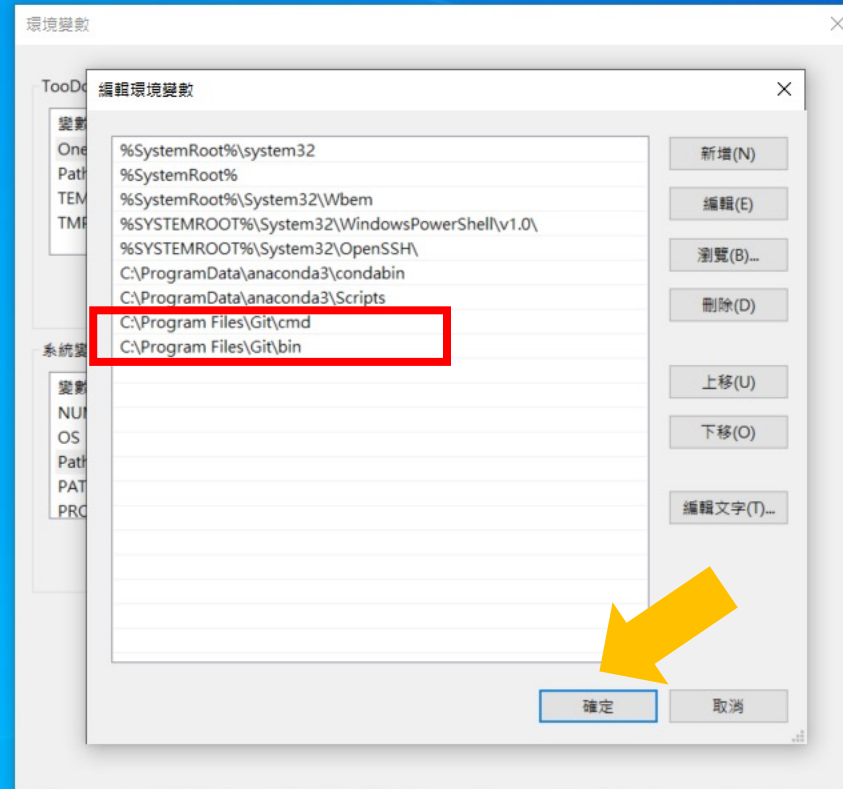
Installing Git



Click "Finish"



Set “環境變數” (environmental variables)



This repository has been archived by the owner on Mar 10, 2023. It is now read-only.

CSSEGISandData / COVID-19 Public archive

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

Download COVID-19 Data from JHU

Code Issues 1.7k Pull requests 285 Actions Projects Security Insights

master 1,603 branches 0 tags

CSSEGISandData Update README.md	4360e50 on Mar 10	7,691 commits
archived_data	archived_0325	3 years ago
csse_covid_19_data	Automated update	6 months ago
who_covid_19_situation_reports	update who readme	3 years ago
.gitignore	update	4 years ago
README.md	Update README.md	6 months ago

Code



README.md

COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University

On March 10, 2023, the Johns Hopkins Coronavirus Resource Center ceased its collecting and reporting of global COVID-19 data. For updated cases, deaths, and vaccine data please visit the following sources:

- Global: [World Health Organization \(WHO\)](#)
- U.S.: [U.S. Centers for Disease Control and Prevention \(CDC\)](#)

For more information, visit the [Johns Hopkins Coronavirus Resource Center](#).

CHUN-HSIANG CHAN (2023)

Novel Coronavirus (COVID-19) Cases, provided by JHU CSSE

[systems.jhu.edu/research/public-health/...](#)

engineering johns-hopkins-university jhu
 csse 2019-ncov coronavirus covid-19
 systems-science

Readme
 Activity
 29.2k stars
 869 watching
 18.7k forks

Report repository

Releases

No releases published

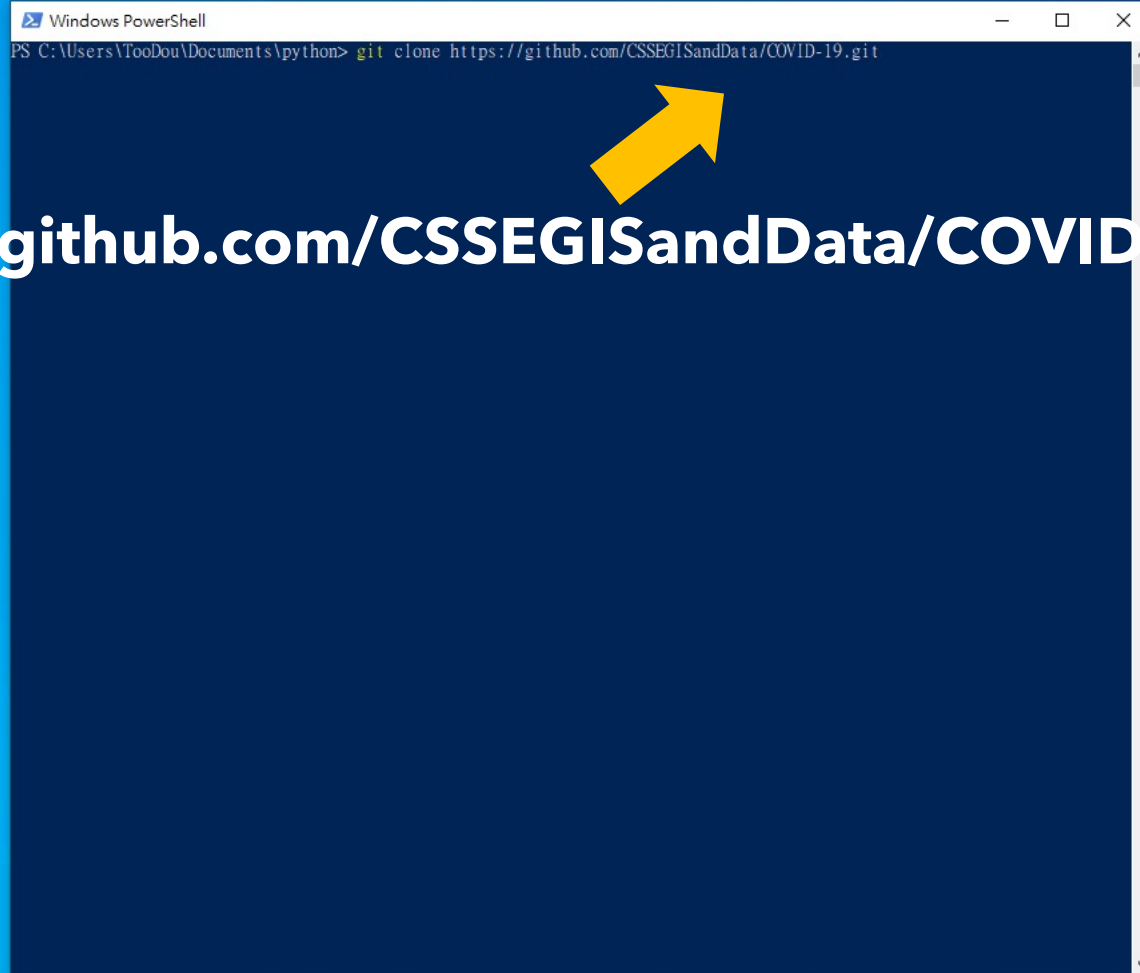
Packages

No packages published

Used by 1

Open terminal...

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



```
Windows PowerShell
PS C:\Users\TooDou\Documents\python> git clone https://github.com/CSSEGISandData/COVID-19.git
Cloning into 'COVID-19'...
remote: Enumerating objects: 682302, done.
remote: Counting objects: 100% (2621/2621), done.
remote: Compressing objects: 100% (2030/2030), done.
Receiving objects: 0% (1/682302)
```

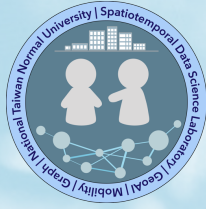


Downloading

Question Time

- **Assignment:**

- **print** the following items
- `a1 = [1,1,2,3,5,8,13,21,34]`
- `a1[0]`
- `a1[0:3]`
- `a1[:3]`
- `a1[1:3]`
- `a2 = ['1','1','2',3,5,8,13,21,34]`
- `a2[0:5]`



The End

Thank you for your attention!

Email: chchan@ntnu.edu.tw

Web: toodou.github.io

