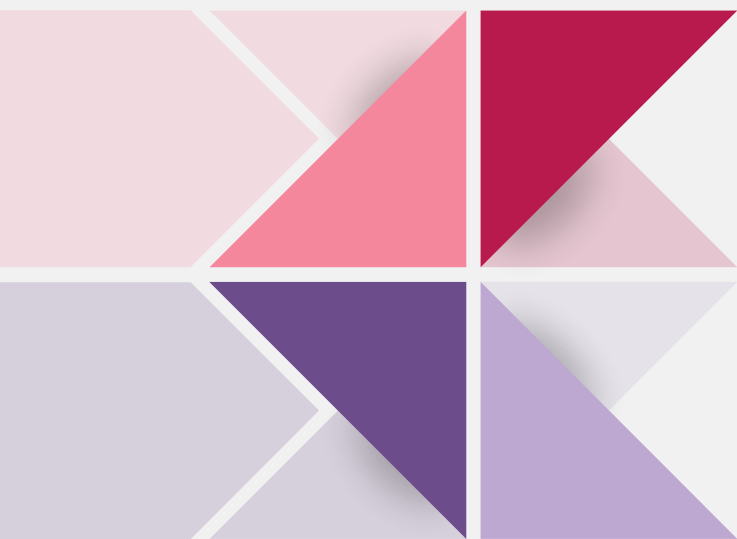




Environment Setup





Anaconda

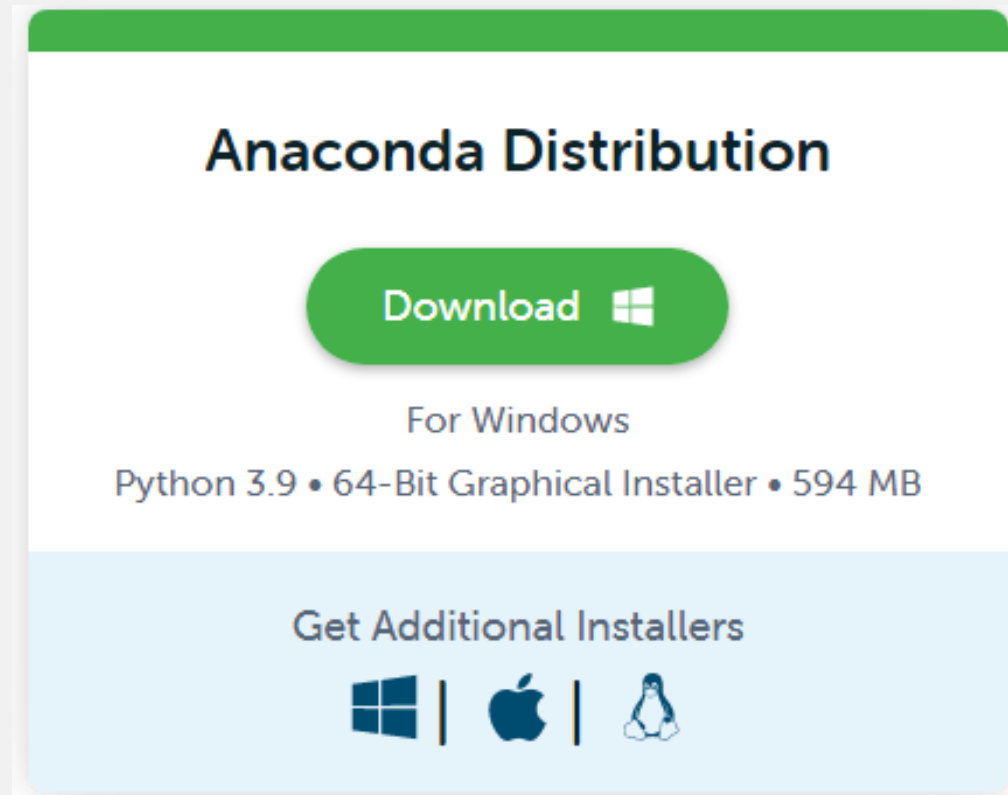
Anaconda

Why?

It can help you easy install Python and packages

It can be downloaded from

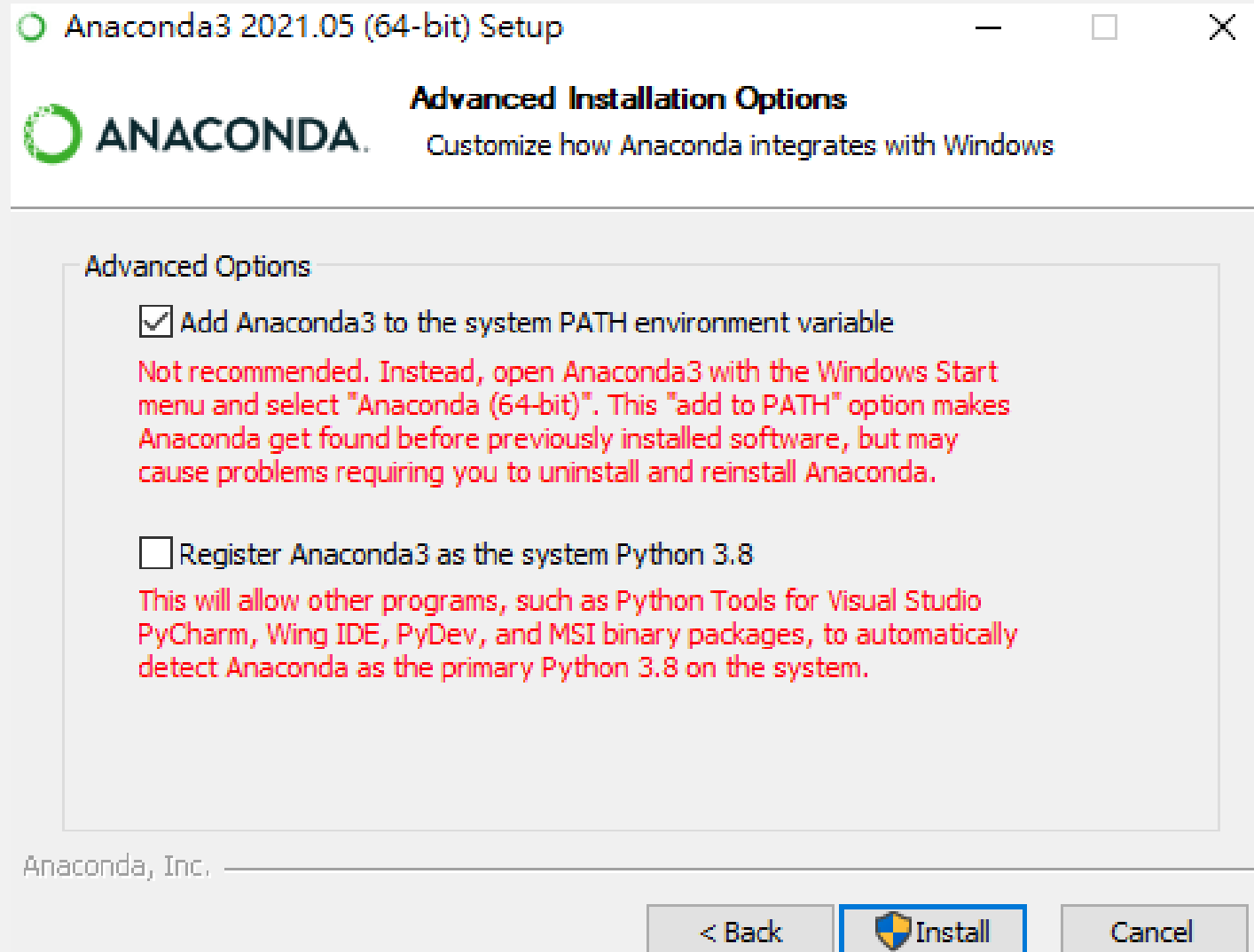
<https://www.anaconda.com/products/individual>



Anaconda

Why?

Important



Anaconda3 2021.05 (64-bit) Setup

ANACONDA **Advanced Installation Options**
Customize how Anaconda integrates with Windows

Advanced Options

- Add Anaconda3 to the system PATH environment variable
Not recommended. Instead, open Anaconda3 with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.
- Register Anaconda3 as the system Python 3.8
This will allow other programs, such as Python Tools for Visual Studio, PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.8 on the system.

Anaconda, Inc.

< Back **Install** Cancel

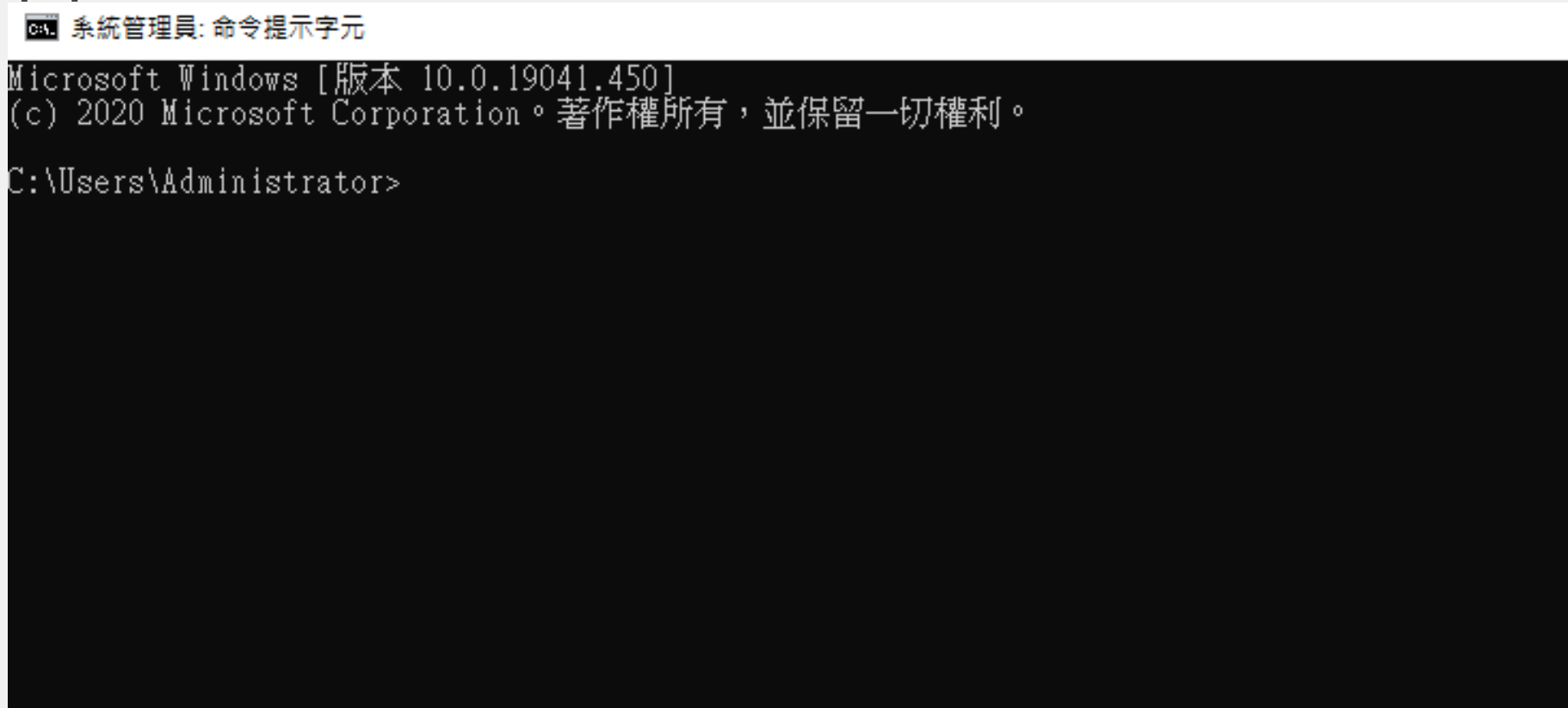
Anaconda

Tips of Anaconda

Windows command line (avoid the powershell and anaconda prompt)

Virtual environment

conda or pip commands



```
CA. 系統管理員: 命令提示字元
Microsoft Windows [版本 10.0.19041.450]
(c) 2020 Microsoft Corporation。著作權所有，並保留一切權利。
C:\Users\Administrator>
```

Anaconda

Tips of Anaconda

Virtual Environment

➤ `conda create -n "envname" python=="version"`

CA: 系統管理員: 命令提示字元 - conda create -n CI python==3.8

```
C:\Users\Administrator>conda create -n CI python==3.8
Collecting package metadata (current_repodata.json): done
Solving environment: failed with repodata from current_repodata.json, will retry with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: done
```

Anaconda

Tips of Anaconda

Virtual Environment

➤ `conda create -n "envname" python=="version"`

```
added / updated specs:
- python==3.8

The following packages will be downloaded:
```

package	build	
ca-certificates-2022.07.19	haa95532_0	123 KB
certifi-2022.6.15	py38haa95532_0	153 KB
openssl-1.1.1q	h2bbff1b_0	4.8 MB
pip-22.1.2	py38haa95532_0	2.5 MB
sqlite-3.38.5	h2bbff1b_0	798 KB

Total:		8.4 MB

```
The following NEW packages will be INSTALLED:
```

ca-certificates	pkgs/main/win-64::ca-certificates-2022.07.19-haa95532_0
certifi	pkgs/main/win-64::certifi-2022.6.15-py38haa95532_0
openssl	pkgs/main/win-64::openssl-1.1.1q-h2bbff1b_0
pip	pkgs/main/win-64::pip-22.1.2-py38haa95532_0
python	pkgs/main/win-64::python-3.8.0-hff0d562_2
setuptools	pkgs/main/win-64::setuptools-61.2.0-py38haa95532_0
sqlite	pkgs/main/win-64::sqlite-3.38.5-h2bbff1b_0
vc	pkgs/main/win-64::vc-14.2-h21ff451_1
vs2015_runtime	pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e58377_2
wheel	pkgs/main/noarch::wheel-0.37.1-pyhd3eb1b0_0
wincertstore	pkgs/main/win-64::wincertstore-0.2-py38haa95532_2

```
Proceed ([y]/n)? _
```

Anaconda

Tips of Anaconda

Virtual Environment

- Install completely - activate CI

```
done
#
# To activate this environment, use
#
#   $ conda activate CI
#
# To deactivate an active environment, use
#
#   $ conda deactivate

C:\Users\Administrator>activate CI
(CI) C:\Users\Administrator>
```


Anaconda

Tips of Anaconda

Virtual Environment

- Install packages in environment
 - conda install "package name"

```
(CI) C:\Users\Administrator>conda install numpy
Collecting package metadata (current_repodata.json): done
Solving environment: done
```

```
==> WARNING: A newer version of conda exists. <==
current version: 4.10.1
latest version: 4.10.3
```

```
Please update conda by running
```

```
$ conda update -n base -c defaults conda
```

```
## Package Plan ##
```

```
environment location: D:\ProgramEnvironment\Anaconda3\envs\CI
```

```
added / updated specs:
- numpy
```

```
The following NEW packages will be INSTALLED:
```

```
blas                pkgs/main/win-64::blas-1.0-mkl
intel-openmp        pkgs/main/win-64::intel-openmp-2021.3.0-haa95532_3372
mkl                 pkgs/main/win-64::mkl-2021.3.0-haa95532_524
mkl-service         pkgs/main/win-64::mkl-service-2.4.0-py38h2bbff1b_0
mkl_fft             pkgs/main/win-64::mkl_fft-1.3.0-py38h277e83a_2
mkl_random          pkgs/main/win-64::mkl_random-1.2.2-py38hf11a4ad_0
numpy               pkgs/main/win-64::numpy-1.20.3-py38ha4e8547_0
numpy-base         pkgs/main/win-64::numpy-base-1.20.3-py38hc2deb75_0
six                 pkgs/main/noarch::six-1.16.0-pyhd3eb1b0_0
```

```
Proceed ([y]/n)?
```

Anaconda

Tips of Anaconda

Virtual Environment

- Install packages in environment
 - pip install "package name"

```
(CI) C:\Users\Administrator>pip install numpy
Collecting numpy
  Downloading numpy-1.21.1-cp38-cp38-win_amd64.whl (14.0 MB)
    | ████████████████████████████████████████████████████████████ 14.0 MB 6.4 MB/s
Installing collected packages: numpy
Successfully installed numpy-1.21.1

(CI) C:\Users\Administrator>
```