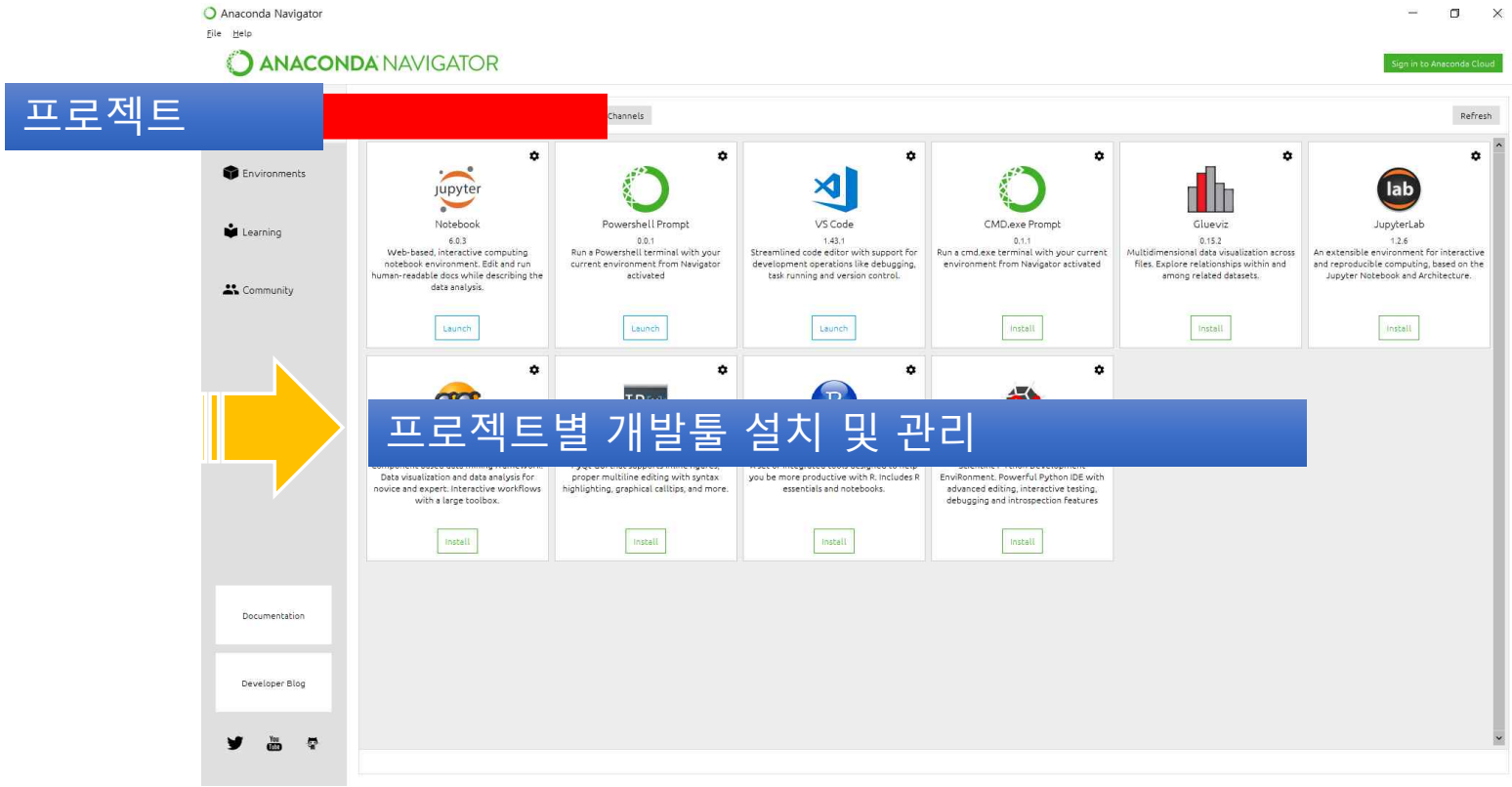
실습환경 만들기

Anaconda 환경

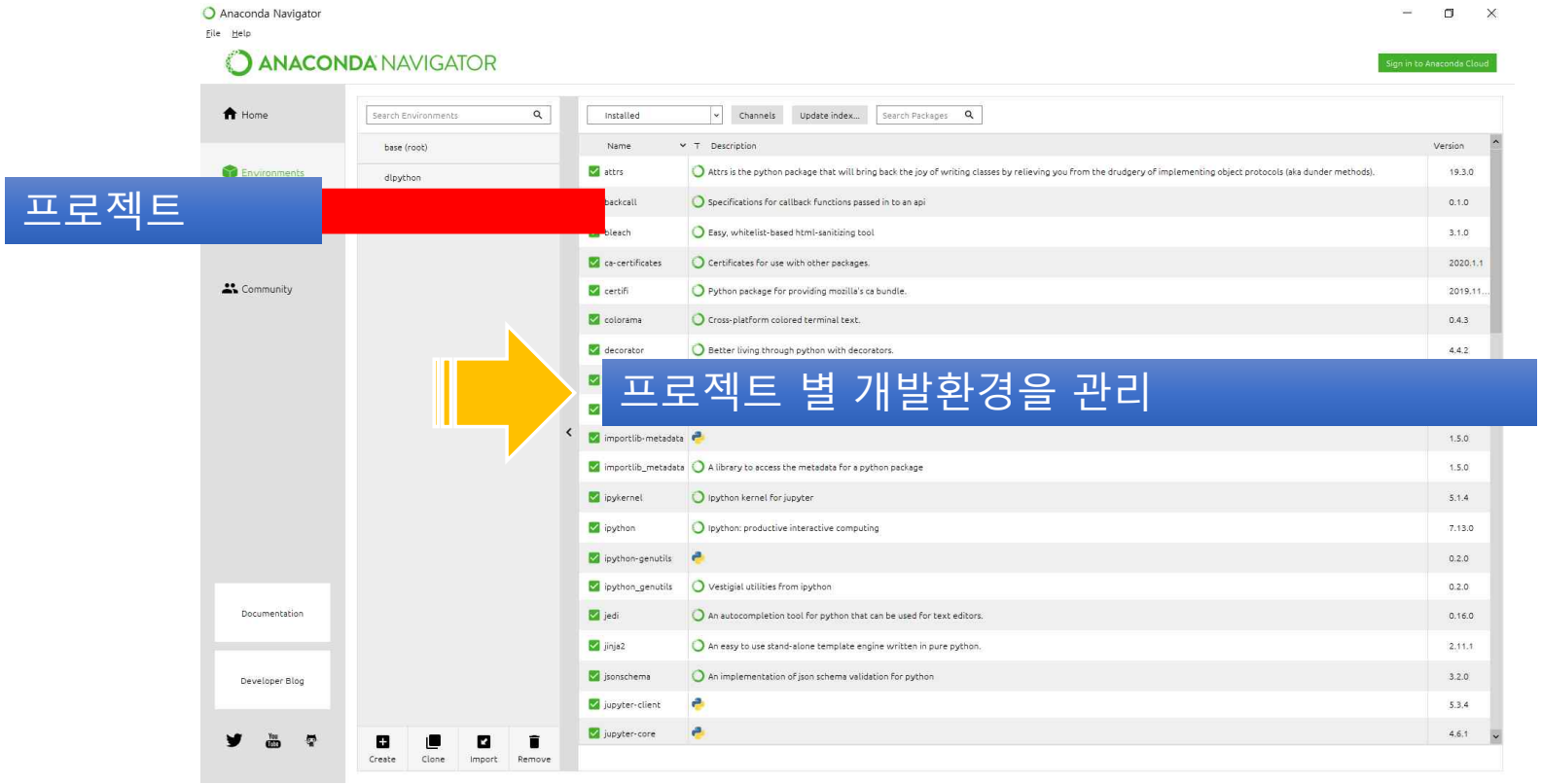
Anaconda?

- Python 기반의 데이터 분석 오픈소스 플랫폼
- 가상환경 관리자 제공
- 패키지 관리자 제공
- 프로젝트 별 개발 환경 구성 가능

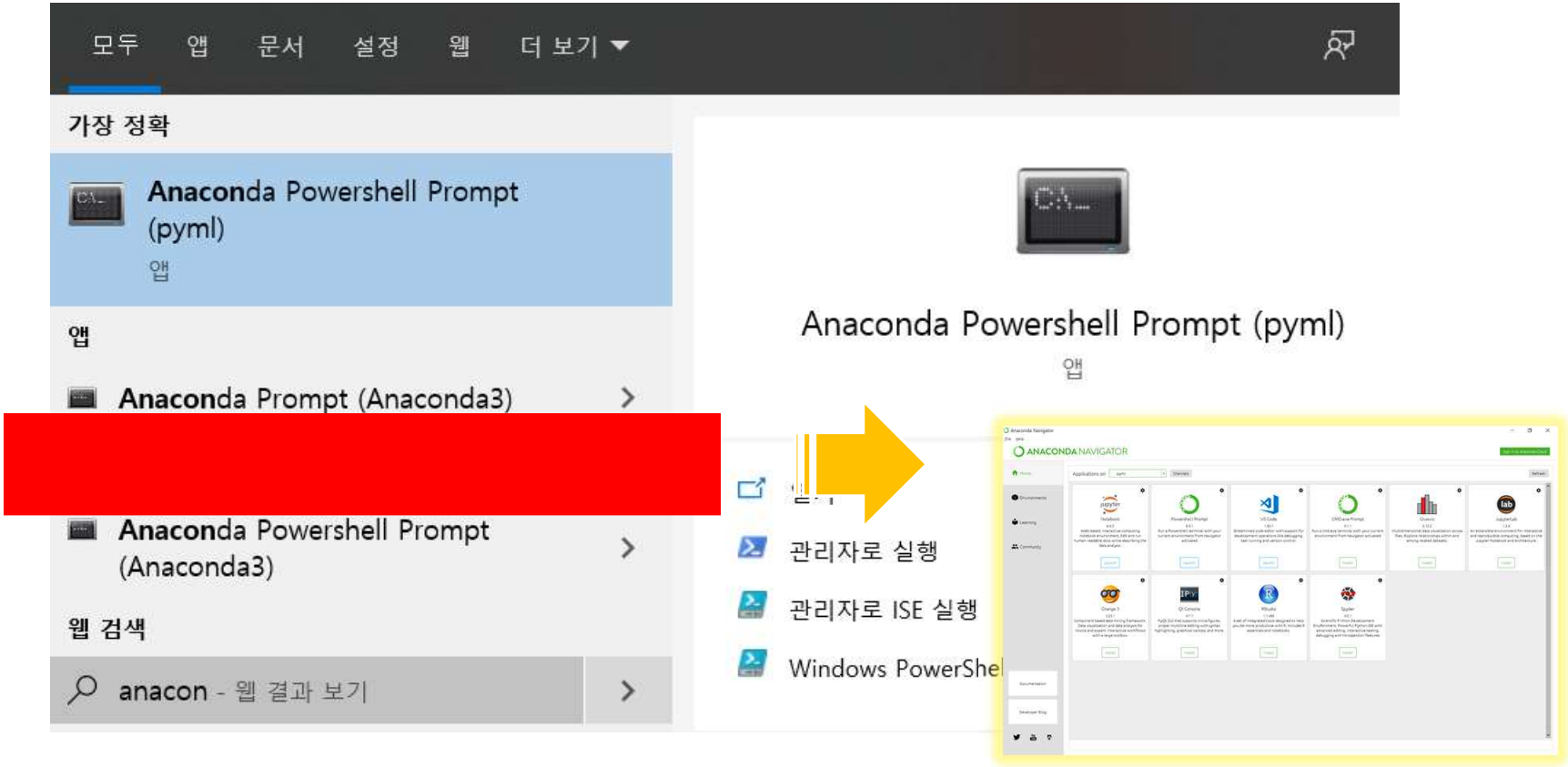
Anaconda?


Anaconda Navigator
File Help
ANACONDA NAVIGATOR
Sign in to Anaconda Cloud
프로젝트
Channels
Refresh
Environments
Learning
Community
Documentation
Developer Blog
Notebook
6.0.3
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
VS Code
1.43.1
Streamlined code editor with support for development operations like debugging, task running and version control.
Launch
CMD.exe Prompt
0.1.1
Run a cmd.exe terminal with your current environment from Navigator activated
Install
Glueviz
0.15.2
Multidimensional data visualization across files. Explore relationships within and among related datasets.
Install
JupyterLab
1.2.6
An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.
Install
프로젝트별 개발툴 설치 및 관리
Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.
Install
proper multiline editing with syntax highlighting, graphical calltips, and more.
Install
you be more productive with R. Includes R essentials and notebooks.
Install
EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features
Install

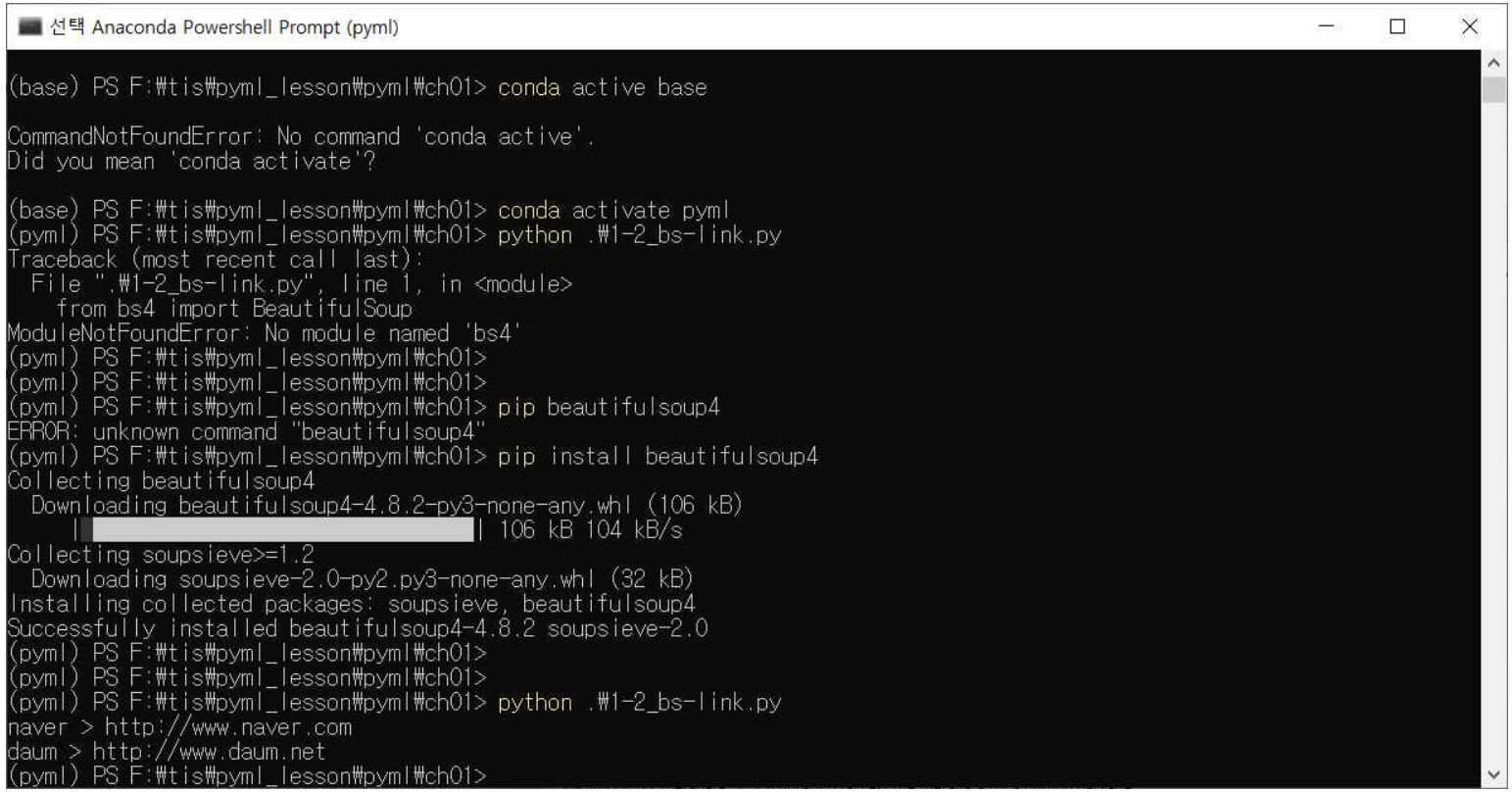
Anaconda?


Anaconda Navigator
File Help
ANACONDA NAVIGATOR
Sign in to Anaconda Cloud
Home
Environments
Community
Documentation
Developer Blog
Search Environments
base (root)
dlpython
Create
Clone
Import
Remove
Installed
Channels
Update index...
Search Packages
Name
Description
Version
attrs
Attrs is the python package that will bring back the joy of writing classes by relieving you from the drudgery of implementing object protocols (aka dunder methods).
19.3.0
backcall
Specifications for callback functions passed in to an api
0.1.0
bleach
Easy, whitelist-based html-sanitizing tool
3.1.0
ca-certificates
Certificates for use with other packages.
2020.1.1
certifi
Python package for providing mozilla's ca bundle.
colorama
Cross-platform colored terminal text.
0.4.3
decorator
Better living through python with decorators.
4.4.2
importlib-metadata
1.5.0
importlib_metadata
A library to access the metadata for a python package
1.5.0
ipykernel
Ipython kernel for jupyter
5.1.4
ipython
Ipython: productive interactive computing
7.13.0
ipython-genutils
0.2.0
ipython_genutils
Vestigial utilities from ipython
0.2.0
jedi
An autocompletion tool for python that can be used for text editors.
0.16.0
jinja2
An easy to use stand-alone template engine written in pure python.
2.11.1
jsonschema
An implementation of json schema validation for python
3.2.0
jupyter-client
5.3.4
jupyter-core
4.6.1
프로젝트
프로젝트 별 개발환경을 관리

Anaconda 사용법



Anaconda 사용법

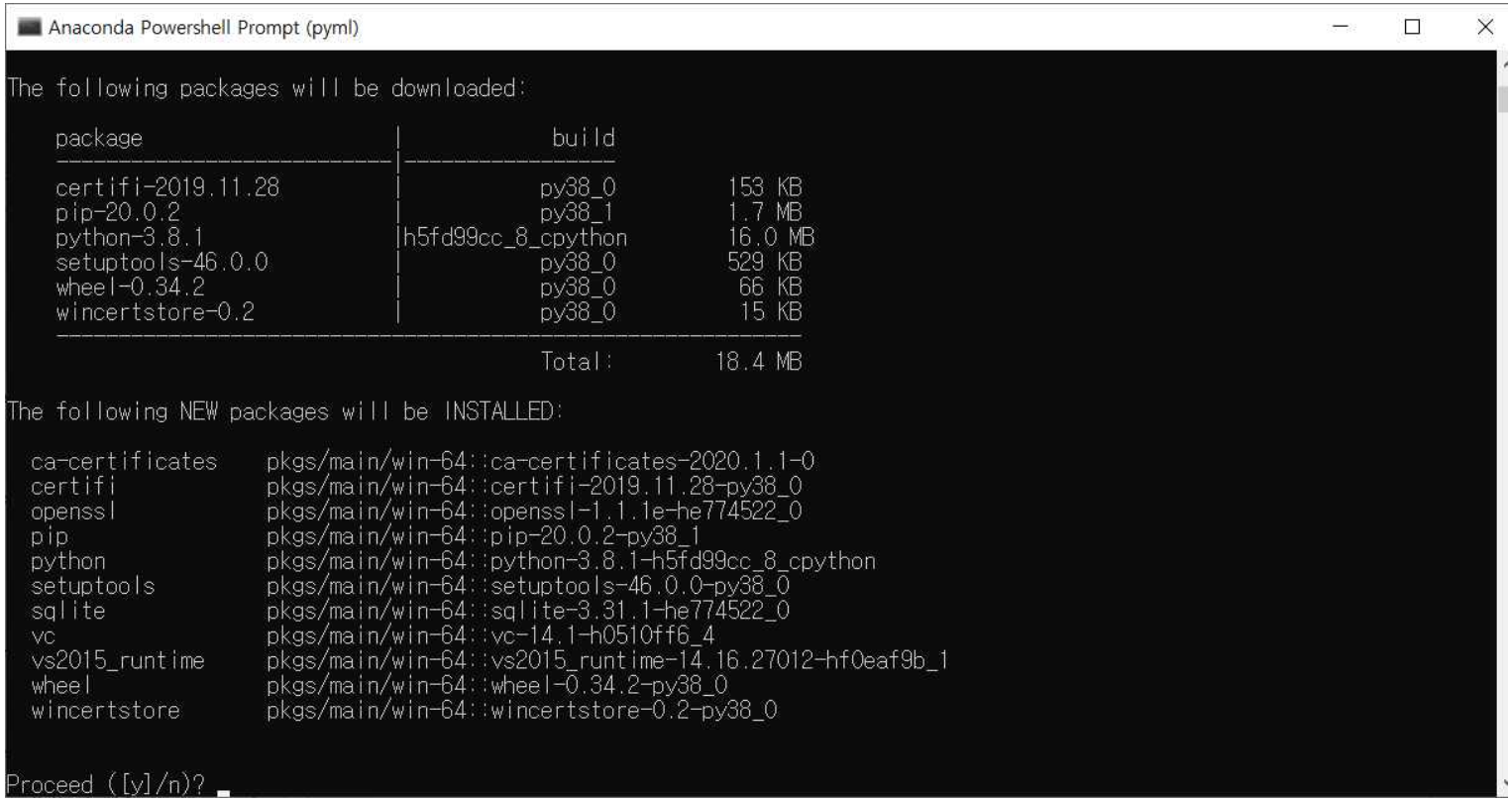


Anaconda 사용법

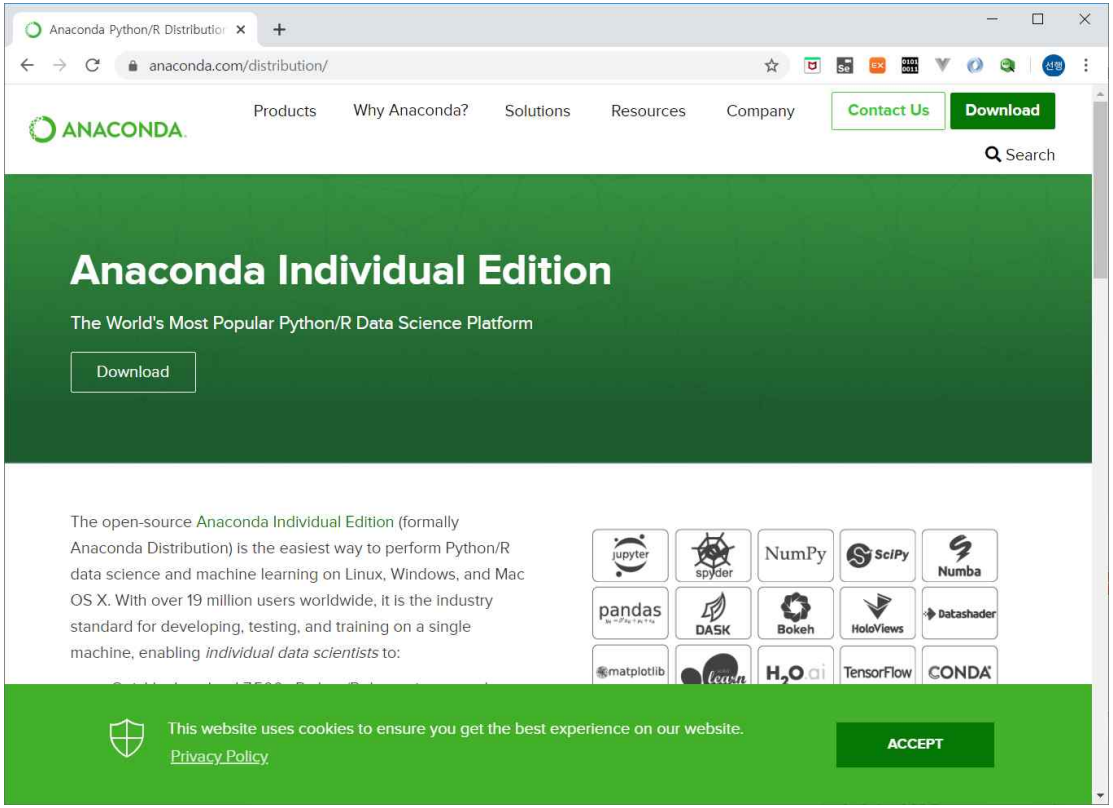
- conda env list 또는 conda info --envs
  - 아나콘다 가상환경 목록 출력
- conda create –n test python=3.5
  - Python 3 버전을 사용하는 test 이름의 새로운 가상환경을 생성
- conda activate test
  - 가상환경을 사용하기 위해 활성화
- python –version
  - 설치되어있는 환경의 python 버전
- conda install tensorflow-gpu
  - tensorflow-gpu 패키지 설치
- conda deactivate
  - 가상환경 종료, 비활성화
- conda env remove –n test
  - 가상환경 삭제

https://hiseon.me/python/anaconda-tutorial/

Anaconda 사용법



Anaconda 설치



https://www.anaconda.com/distribution/

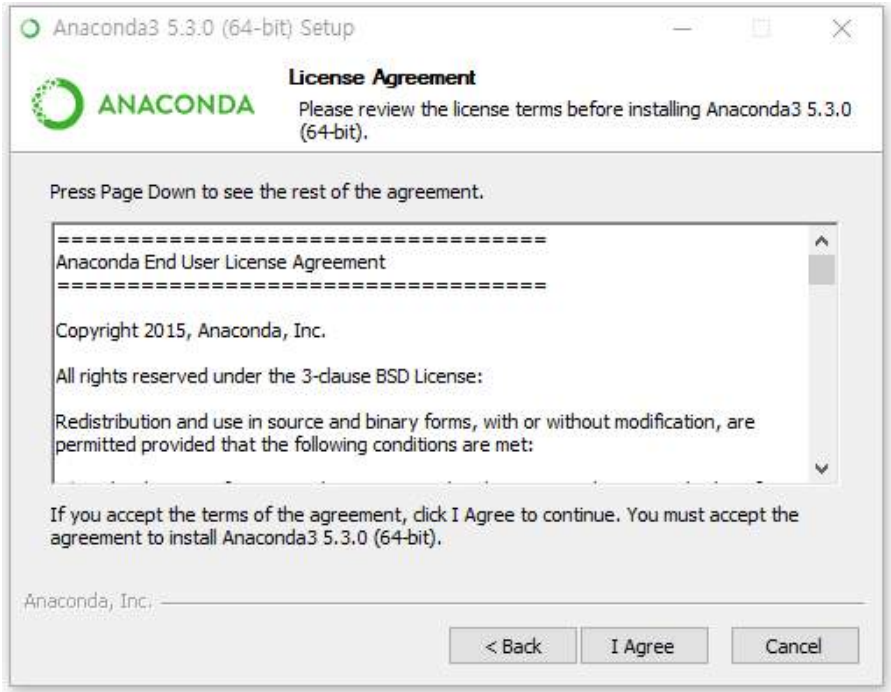
Anaconda 설치

https://www.anaconda.com/distribution/

Anaconda 설치


Anaconda3 5.3.0 (64-bit) Setup
ANACONDA.
Welcome to Anaconda3 5.3.0 (64-bit) Setup
Setup will guide you through the installation of Anaconda3 5.3.0 (64-bit).
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

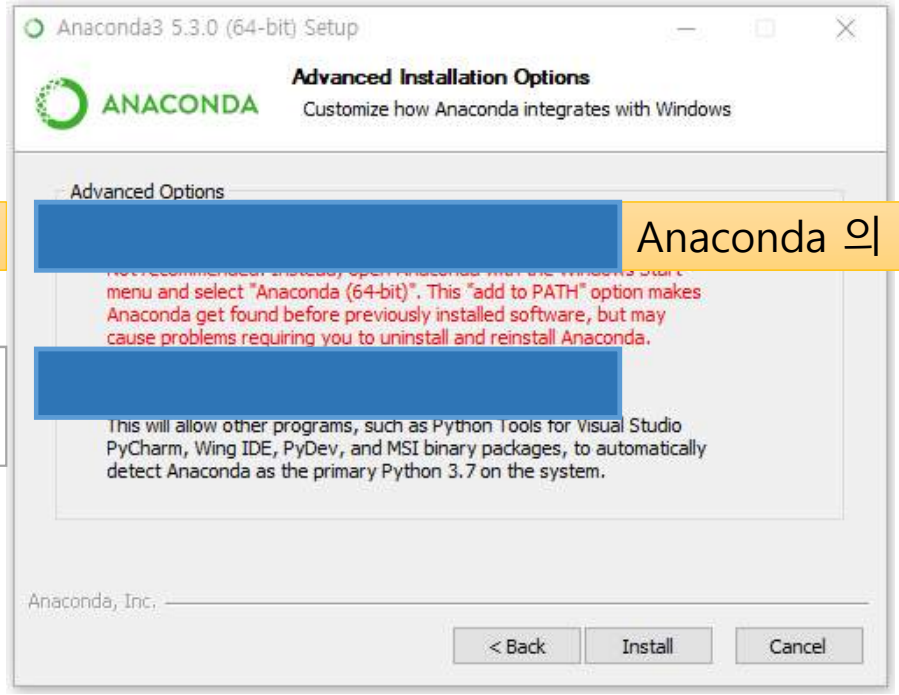
Anaconda 설치


Anaconda3 5.3.0 (64-bit) Setup
ANACONDA
License Agreement
Please review the license terms before installing Anaconda3 5.3.0 (64-bit).
Press Page Down to see the rest of the agreement.
==========
Anaconda End User License Agreement
==========
Copyright 2015, Anaconda, Inc.
All rights reserved under the 3-clause BSD License:
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Anaconda3 5.3.0 (64-bit).
Anaconda, Inc.
< Back
I Agree
Cancel

Anaconda 설치

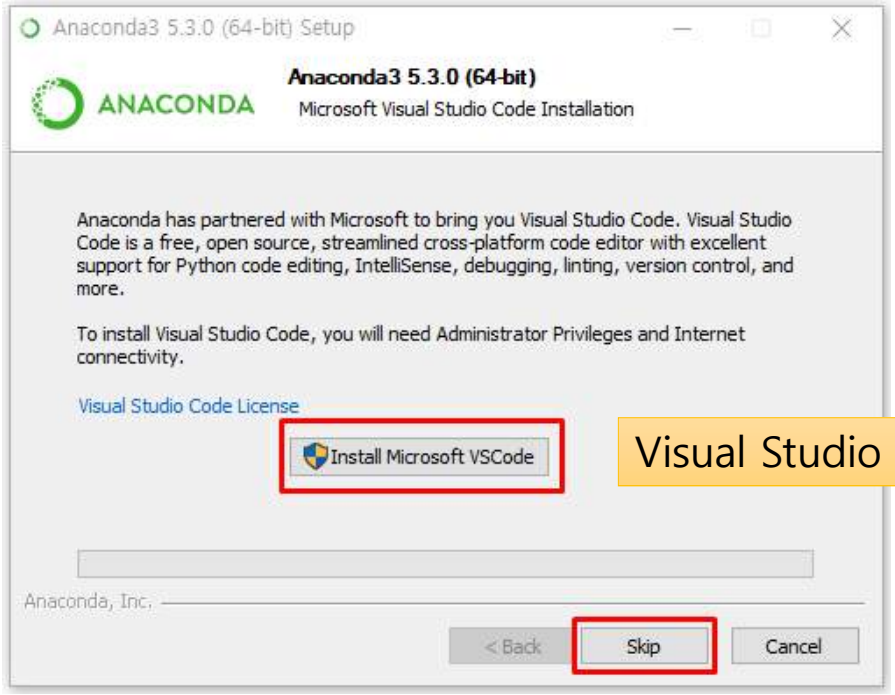
선택 해제

Python3.7을 아나콘다에서 기본값으로 사용



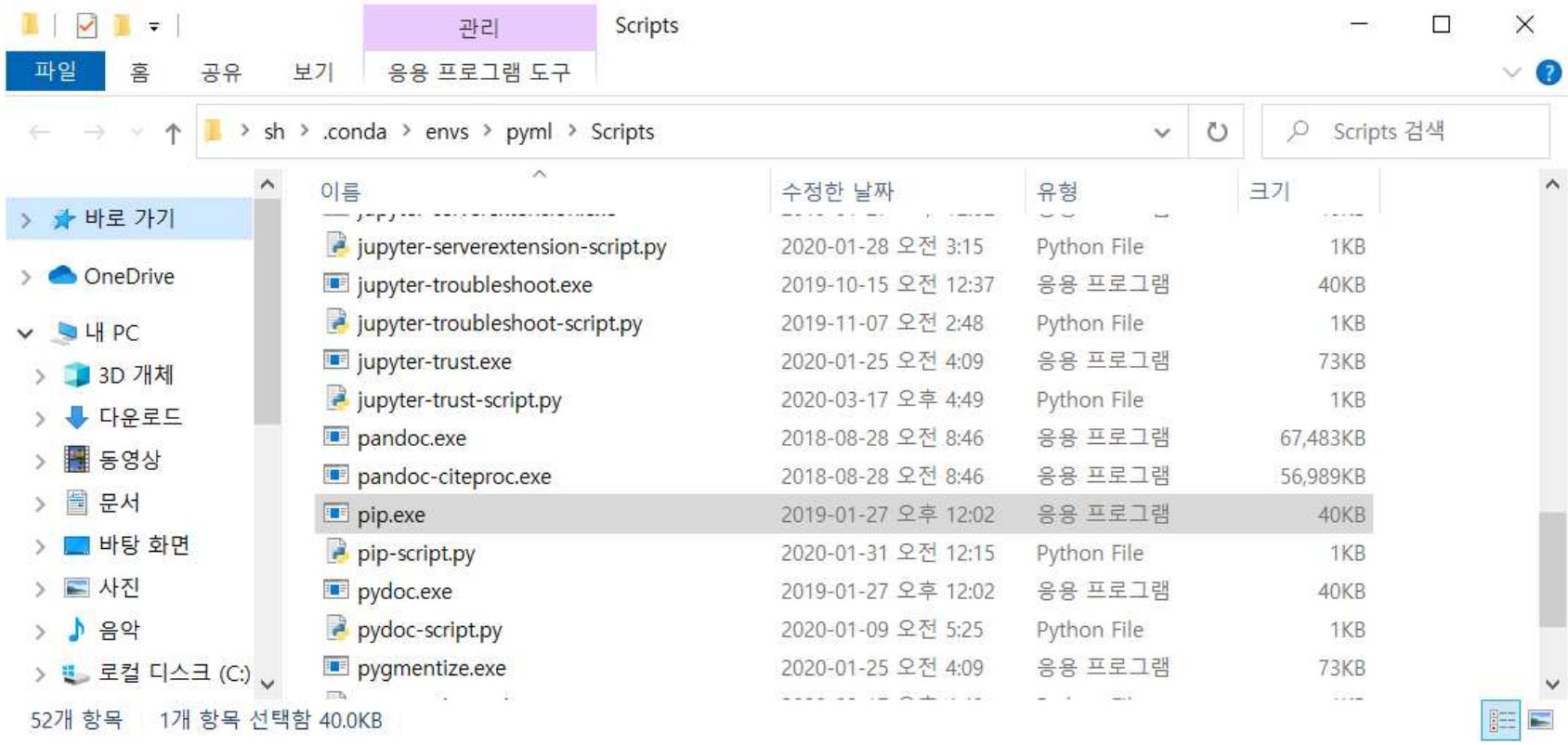
Anaconda 의 path는 추가하지 마세요

Anaconda 설치

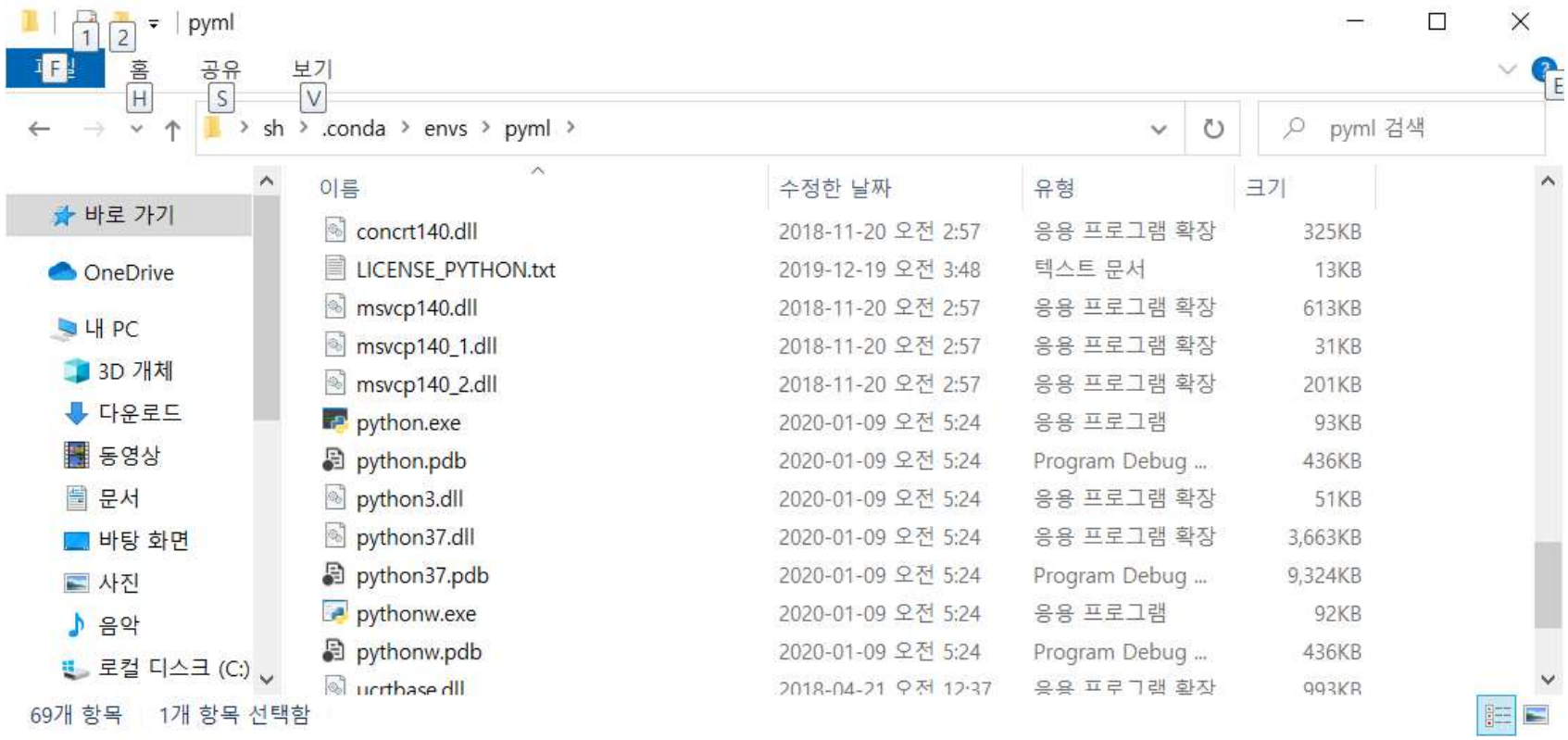


Visual Studio Code 설치

Python 위치


관리
Scripts
파일
홈
공유
보기
응용 프로그램 도구
sh > .conda > envs > pyml > Scripts
Scripts 검색
바로 가기
OneDrive
내 PC
3D 개체
다운로드
동영상
문서
바탕 화면
사진
음악
로컬 디스크 (C:)
이름
수정한 날짜
유형
크기
jupyter-serverextension-script.py 2020-01-28 오전 3:15 Python File 1KB
jupyter-troubleshoot.exe 2019-10-15 오전 12:37 응용 프로그램 40KB
jupyter-troubleshoot-script.py 2019-11-07 오전 2:48 Python File 1KB
jupyter-trust.exe 2020-01-25 오전 4:09 응용 프로그램 73KB
jupyter-trust-script.py 2020-03-17 오후 4:49 Python File 1KB
pandoc.exe 2018-08-28 오전 8:46 응용 프로그램 67,483KB
pandoc-citeproc.exe 2018-08-28 오전 8:46 응용 프로그램 56,989KB
pip.exe 2019-01-27 오후 12:02 응용 프로그램 40KB
pip-script.py 2020-01-31 오전 12:15 Python File 1KB
pydoc.exe 2019-01-27 오후 12:02 응용 프로그램 40KB
pydoc-script.py 2020-01-09 오전 5:25 Python File 1KB
pygmentize.exe 2020-01-25 오전 4:09 응용 프로그램 73KB
52개 항목
1개 항목 선택함 40.0KB

Python 위치


pyml
1
2
파일 F
홈 H
공유 S
보기 V
sh > .conda > envs > pyml >
pyml 검색
바로 가기
OneDrive
내 PC
3D 개체
다운로드
동영상
문서
바탕 화면
사진
음악
로컬 디스크 (C:)
이름
수정한 날짜
유형
크기
concrt140.dll 2018-11-20 오전 2:57 응용 프로그램 확장 325KB
LICENSE_PYTHON.txt 2019-12-19 오전 3:48 텍스트 문서 13KB
msvcp140.dll 2018-11-20 오전 2:57 응용 프로그램 확장 613KB
msvcp140_1.dll 2018-11-20 오전 2:57 응용 프로그램 확장 31KB
msvcp140_2.dll 2018-11-20 오전 2:57 응용 프로그램 확장 201KB
python.exe 2020-01-09 오전 5:24 응용 프로그램 93KB
python.pdb 2020-01-09 오전 5:24 Program Debug ... 436KB
python3.dll 2020-01-09 오전 5:24 응용 프로그램 확장 51KB
python37.dll 2020-01-09 오전 5:24 응용 프로그램 확장 3,663KB
python37.pdb 2020-01-09 오전 5:24 Program Debug ... 9,324KB
pythonw.exe 2020-01-09 오전 5:24 응용 프로그램 92KB
pythonw.pdb 2020-01-09 오전 5:24 Program Debug ... 436KB
69개 항목
1개 항목 선택함

PIP(Python Install Package Manager)

- Python에서 작성된 **패키지 소프트웨어를 설치**하는데 사용

- 명령어
  - python –m pip
    - command 목록
  - python –m pip install --upgrade pip
    - 업그레이드
  - python –m pip install numpy
    - numpy 패키지 설치
  - python –m pip install opencv-python
    - opencv-python 설치
  - pip uninstall numpy
    - numpy 패키지 삭제
  - pip list
    - 설치된 패키지와 버전 출력
  - pip help
    - 도움말 출력

https://www.codingfactory.net/11346

https://076923.github.io/posts/Python-28/