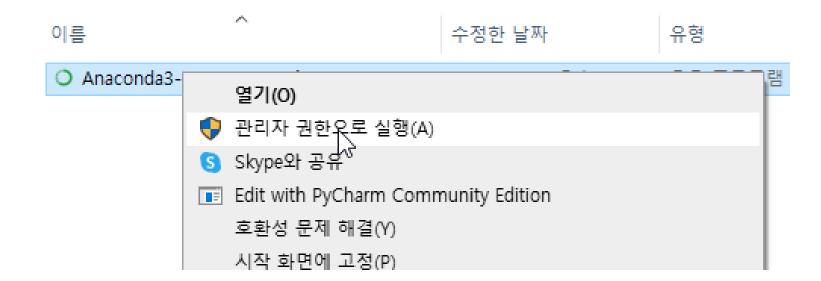
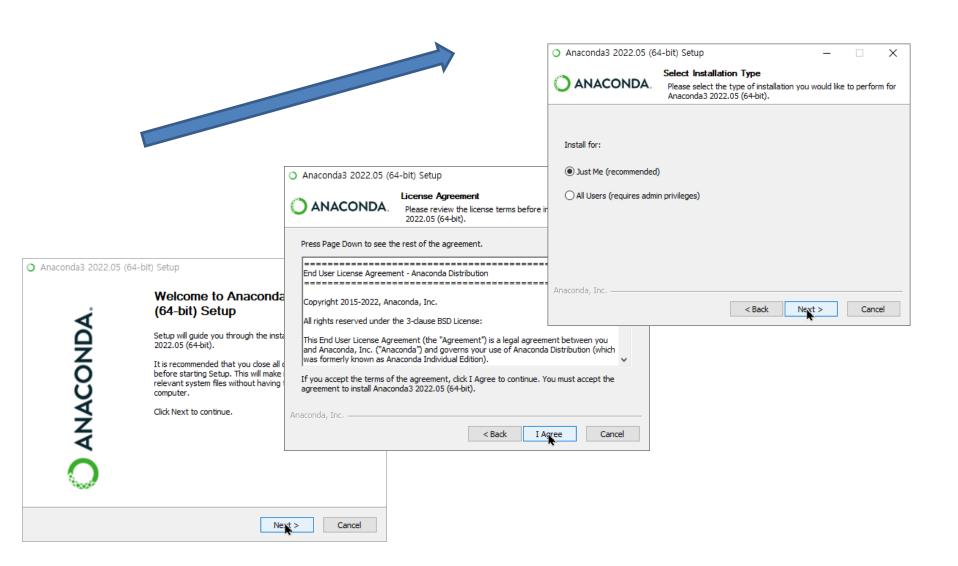
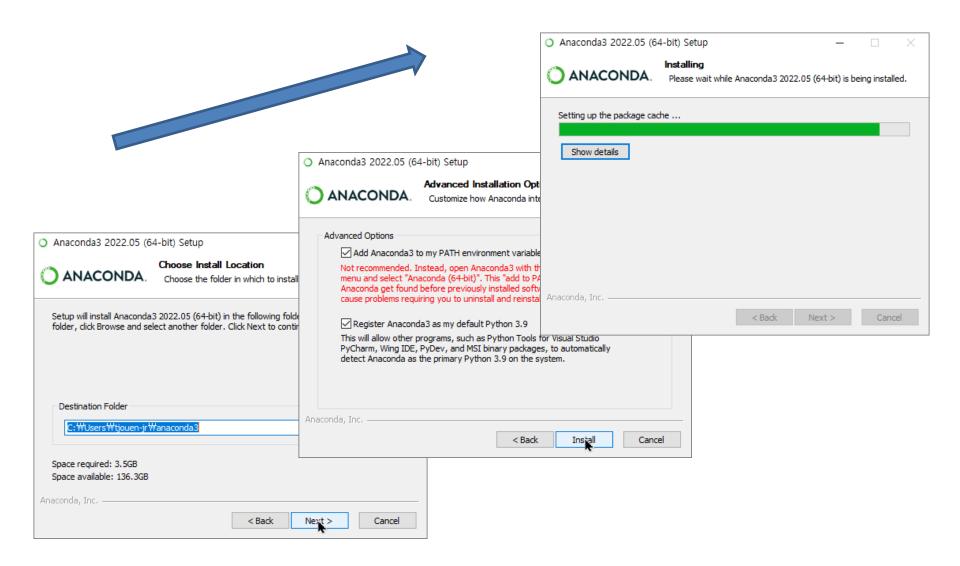
파이썬 개발 환경 설치 (Anaconda 설치)

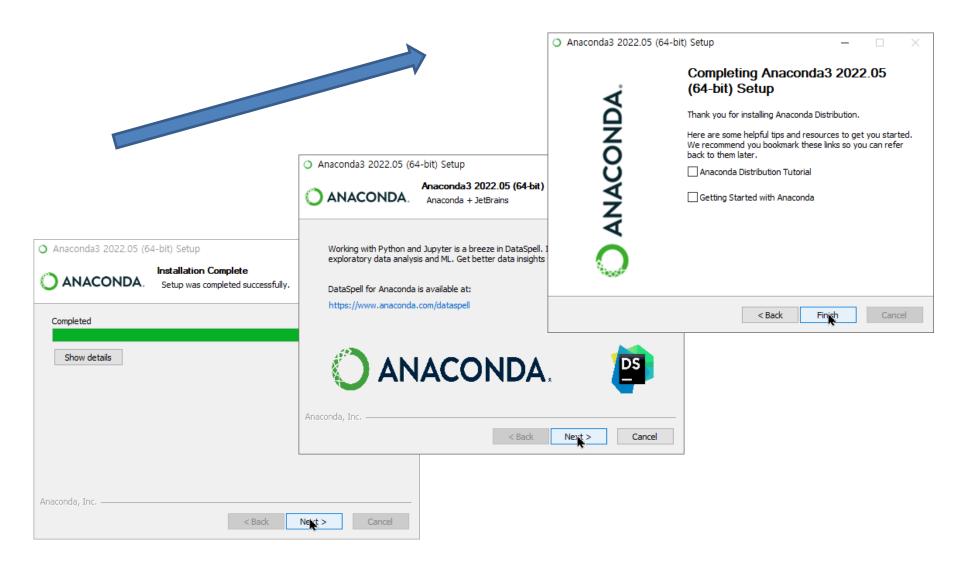
Anaconda 특징

- Anaconda는 Python 기반의 개방형 데이터 과학 플랫폼.
- Anaconda의 오픈 소스 버전은 Python 및 R의 고성능 배포이며 데이터 과학을 위해 가장 많이 사용되는 Python, R 및 Scala 패키지 중 100개 이상을 포함.
- Anaconda에 포함된 유명한 패키지인 의존성 및 환경 관리자인 conda를 사용하여 쉽게 설치할 수 있는 720개가 넘는 패키지에 액세스 할 수 있음.
- 다운로드 사이트
 - https://www.anaconda.com/downloads/
- 이전 버전 다운로드 사이트
 - https://repo.continuum.io/archive/index.html







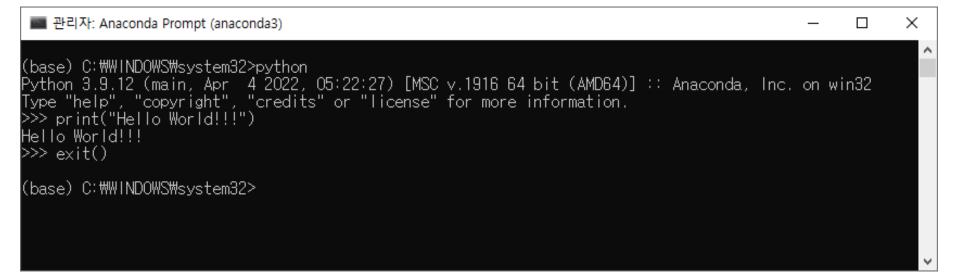


아나콘다 프롬프트 실행



아나콘다 프롬프트 실행





가상 환경 구성 및 텐서플로우/conda 커널 설치

(base) C:₩Users₩user>conda update conda # conda 업데이트.

(base) C:₩Users₩user>conda --version # conda 버전확인.

(base) C:₩Users₩user>python --version # python 버전확인.

(base) C:₩Users₩user>conda list # 설치된 패키지 목록 보기.

(base) C:₩Users₩user>conda env list # 가상 환경 list 확인 명령.

(base) C:₩Users₩user>conda create –n tf_cpu python=3.x openssl

가상환경(tf_cpu) 생성하기.

(base) C:₩Users₩user>conda activate tf_cpu # 가상 환경에 접속하기.

가상 환경 구성 및 텐서플로우/conda 커널 설치

- (tf_cpu) C:₩Users₩user>conda install numpy
- (tf_cpu) C:₩Users₩user>conda install pandas
- (tf_cpu) C:₩Users₩user>conda install matplotlib
- (tf_cpu) C:₩Users₩user>conda install scikit-learn
- (tf_cpu) C:₩Users₩user>conda install tensorflow # 텐서플로우 설치하기.
- (tf_cpu) C:₩Users₩user>conda install nb_conda # conda 커널 설치.

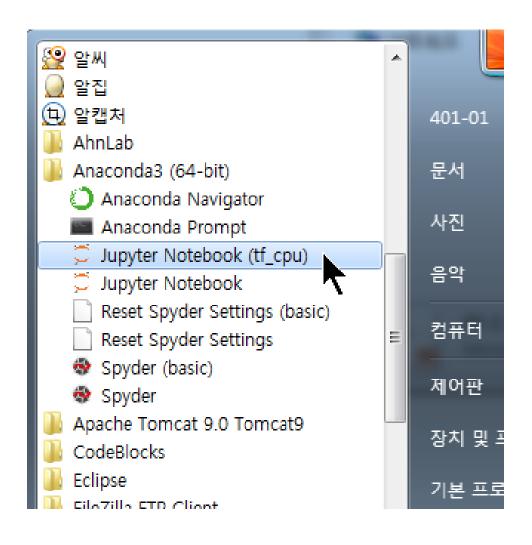
가상 환경 삭제 / 제거

(tf_cpu) C:₩Users₩user>conda remove tensorflow # 패키지 제거.

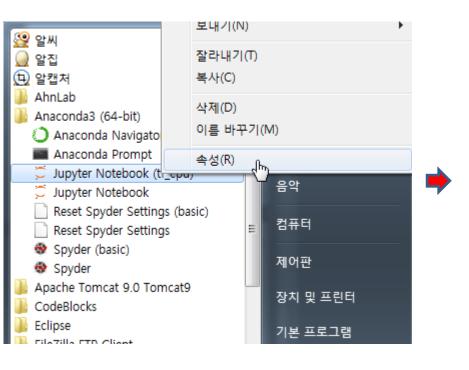
(tf_cpu) C:₩Users₩user>conda deactivate # 가상환경 접속 종료하기.

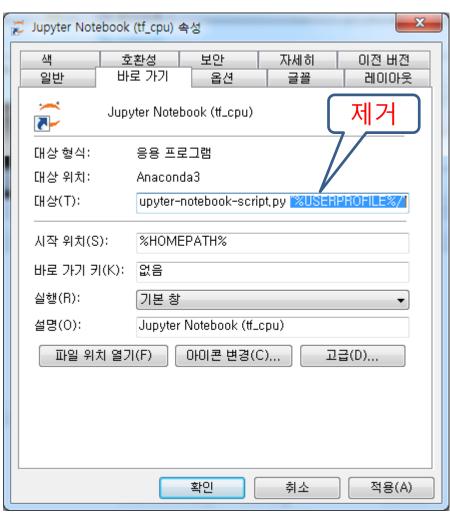
(base) C:₩Users₩user>conda env remove –n tf_cpu # 가상 환경 삭제/제거하기.

주피터 노트북 실행



주피터 노트북 시작 디렉토리 변경 (1/3)

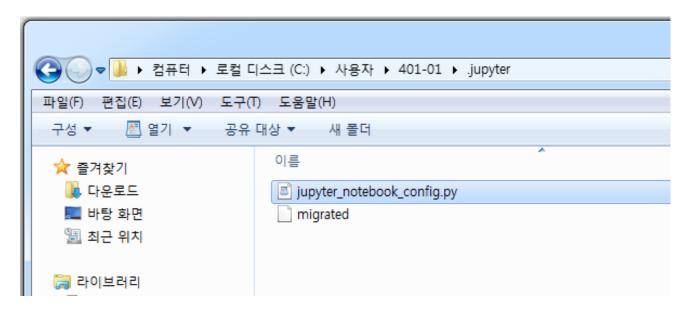




주피터 노트북 시작 디렉토리 변경 (2/3)

▶ 프롬프트 창에서 jupyter 명령어를 이용하여 config 파일을 생성

```
(base) C:\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\U
```



주피터 노트북 시작 디렉토리 변경 (3/3)

```
- - X
jupyter notebook config.py - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)
## A custom url for MathJax.js. Should be in the form of a case-sensitive url to
# MathJax, for example: /static/components/MathJax/MathJax.js
#c.NotebookApp.mathiax url = ''
## Dict of Python modules to load as notebook server extensions.Entry values can
# be used to enable and disable the loading of the extensions. The extensions
# will be loaded in alphabetical order.
#c.NotebookApp.nbserver extensions = {}
## The directory to use for notebooks and kernels.
c.NotebookApp.notebook dir = 'C:/workspaces'
## Whether to open in a browser after starting. The specific browser used is
  platform dependent and determined by the python standard library `webbrowser`
# module, unless it is overridden using the --browser (NotebookApp.browser)
# configuration option.
#c.NotebookApp.open browser = True
## Hashed password to use for web authentication.
   To generate, type in a python/IPython shell:
     from notebook.auth import passwd; passwd()
  The string should be of the form type:salt:hashed-password.
#c.NotebookApp.password = ''
## Forces users to use a password for the Notebook server. This is useful in a
  multi user environment, for instance when everybody in the LAN can access each
  other's machine through ssh.
```

명령어 모음

```
#아나콘다 업데이트
(base) > conda update -n base conda
#모든 파이썬 패키지 업데이트
(base) > conda update --all
#파이썬 버전 확인
(base) > python --version
# 패키지 버전 확인
(base) > pip freeze
#가상환경 생성(경로가 아닌 프로젝트명)
(base) > conda create -n 가상환경명
#파이썬 v3.x을 사용할 환경 생성
(base) > conda create -n 가상환경명 python=3.x
#파이썬 v3.x을 사용하며, 아나콘다 모든 패키지를 가진 환경을 생성
(base) >conda create -n 가상환경명 python=3.x anaconda
```

명령어 모음

(프로젝트명) >pip install 패키지명.

```
#가상환경 활성화 (/아나콘다 폴더/envs에 생성)
(base) >conda activate 가상환경명

#가상환경 비활성화
(base) >conda deactivate

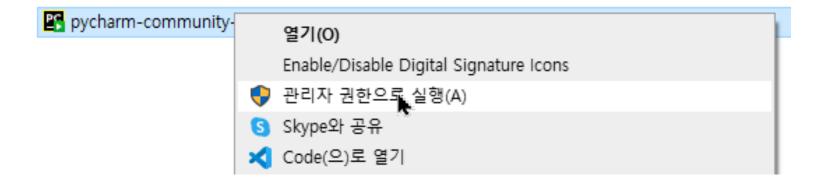
#가상환경 삭제
(base) >conda remove --name 가상환경명 --all

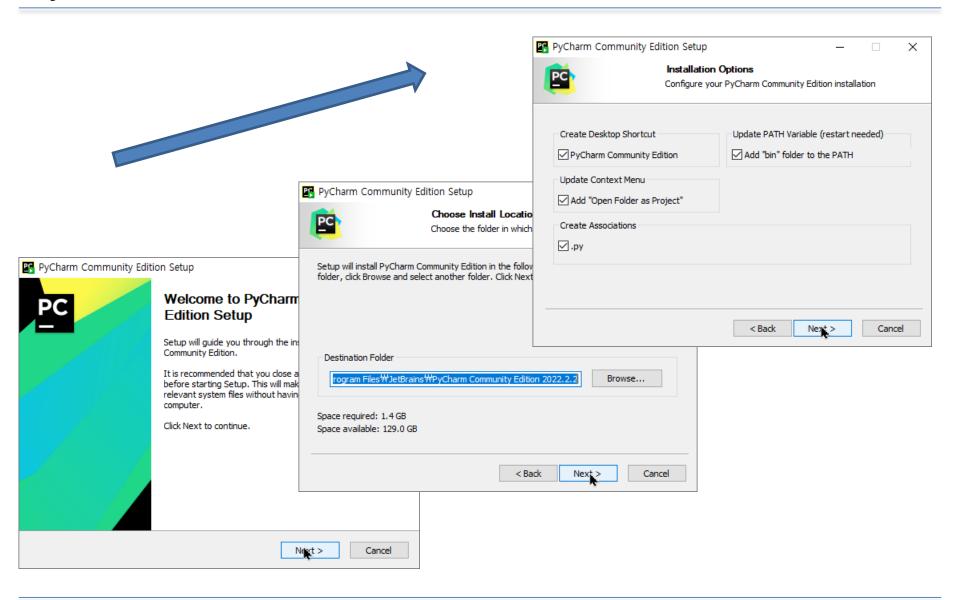
#파이썬 패키지(라이브러리) 설치
(프로젝트명) >conda install tensorflow tensorflow-gpu matplotlib pillow
#아나콘다에 없으면 pip로 설치해 준다.
```

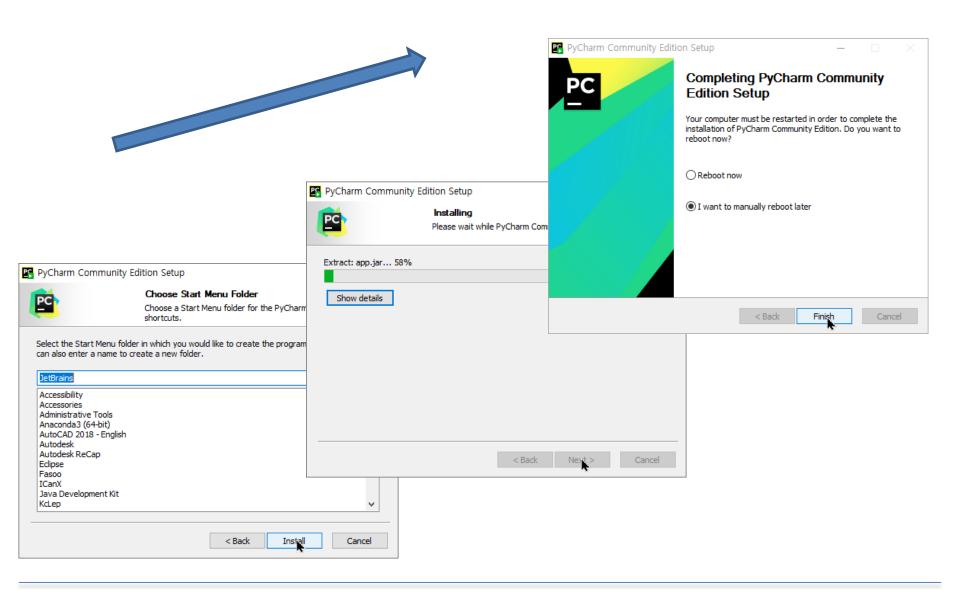
명령어 모음

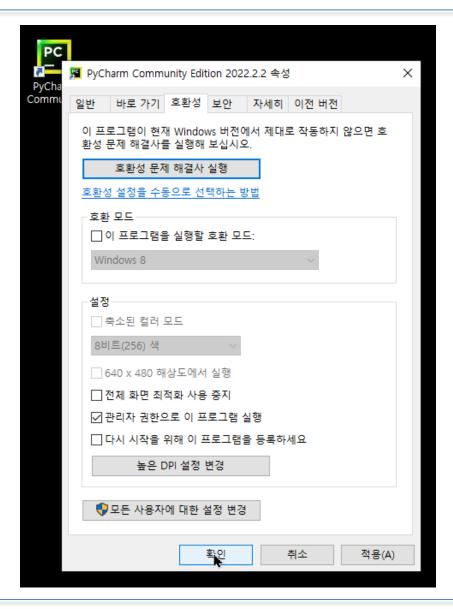
```
#패키지 업그레이드
>conda --upgrade 가상환경명
#파이썬 패키지 삭제
>conda remove 패키지명
#Jupyter notebook 설치
>conda install jupyter
#주피터 실행
#실행 전 프로젝트를 사용할 폴더로 이동
>jupyter notebook
#웹브라우저가 열리며 notebook 사용 가능
#주피터 종료
#웹브라우저의 우측 상단 Quit 버튼 클릭
#웹브라우저의 주피터 메뉴 File > Close and Half로 종료
#또는 아나콘다 프롬프트 창에서 Ctrl+C키를 눌러 종료
```

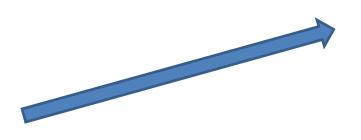
- https://www.jetbrains.com/pycharm/











PyCharm User Agreement

JETBRAINS COMMUNITY EDITION TERMS

IMPORTANT! READ CAREFULLY:

THESE TERMS APPLY TO THE JETBRAINS INTEGRATED DEVELOPMENT ENVIRONMENT TOOLS CALLED 'INTELLIJ IDEA COMMUNITY EDITION' AND 'PYCHARM COMMUNITY EDITION' (SUCH TOOLS, "COMMUNITY EDITION" PRODUCTS) WHICH CONSIST OF 1) OPEN SOURCE SOFTWARE SUBJECT TO THE APACHE 2.0 LICENSE (AVAILABLE HERE: https://www.apache.org/licenses/LICENSE-2.0), AND 2) JETBRAINS PROPRIETARY SOFTWARE PLUGINS PROVIDED IN FREE-OF-CHARGE VERSIONS WHICH ARE SUBJECT TO TERMS DETAILED HERE: https://www.jetbrains.com/legal/community-bundled-plugins.

"JetBrains" or "we" means JetBrains s.r.o., with its principal place of business at Na Hrebenech II 1718/10, Prague, 14000, Czech Republic, registered in the Commercial Register maintained by the Municipal Court of Prague, Section C, File 86211, ID No.: 265-02-275

☑ I confirm that I have read and accept the terms of this User Agreement

Exit Continue

