

Install Python Module

DongKook Kim
JNU

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Install Python Module

모듈이 설치되어 있는 경우

```
(tensorflow2) C:\Users\WMOPA1>python
Python 3.7.3 (default, Apr 24 2019, 15:29:51) [MSC v.1915 64 bit (AMD64)] :: Anaconda, Inc. on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import numpy as np
>>>
```

모듈이 설치되어 있지 않은 경우 → 'ModuleNotFoundError' 에러 발생

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Python 3.7.3 (default, Apr 24 2019, 15:29:51) [MSC v.1915 64 bit (AMD64)] :: Anaconda, Inc. on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import matplotlib
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'matplotlib'
>>>
```

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모듈 설치

```
(tensorflow2) C:\Users\WOPA1>pip install matplotlib pip install '모듈 이름'
Collecting matplotlib
  Downloading https://files.pythonhosted.org/packages/1a/c0/69e3f695d7384012e90be1e16570c08953baae00fd98094179ef87c7d5a2/matplotlib-3.1.1-cp37-cp37m-win_amd64.whl (9.1MB)
    | 9.1MB 939kB/s
Collecting kiwisolver>=1.0.1 (from matplotlib)
  Downloading https://files.pythonhosted.org/packages/c6/ea/e5474014a13ab2dcb5056608e0716c600c3d8a8bcffb10ed55ccd6a42eb0/kiwisolver-1.1.0-cp37-none-win_amd64.whl (57kB)
    | 61kB 3.8MB/s
Collecting cyclor>=0.10 (from matplotlib)
  Downloading https://files.pythonhosted.org/packages/f7/d2/e07d3ebb2bd7af696440ce7e754c59dd546ffe1bbe732c8ab68b9c834e61/cyclor-0.10.0-py2.py3-none-any.whl
Requirement already satisfied: numpy>=1.11 in c:\Users\WOPA1\conda\envs\tensorflow2\lib\site-packages (from matplotlib) (1.16.4)
Requirement already satisfied: python-dateutil>=2.1 in c:\Users\WOPA1\conda\envs\tensorflow2\lib\site-packages (from matplotlib) (2.8.0)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in c:\Users\WOPA1\conda\envs\tensorflow2\lib\site-packages (from matplotlib) (2.4.0)
Requirement already satisfied: setuptools in c:\Users\WOPA1\conda\envs\tensorflow2\lib\site-packages (from kiwisolver>=1.0.1->matplotlib) (41.0.1)
Requirement already satisfied: six in c:\Users\WOPA1\conda\envs\tensorflow2\lib\site-packages (from cyclor>=0.10->matplotlib) (1.12.0)
Installing collected packages: kiwisolver, cyclor, matplotlib
Successfully installed cyclor-0.10.0 kiwisolver-1.1.0 matplotlib-3.1.1
```

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```
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Type "help", "copyright", "credits" or "license" for more information.
>>> import matplotlib
>>> matplotlib.__version__
'3.1.1'
>>>
```

모듈 설치 이후, 정상적으로 모듈을 사용할 수 있는 것을 확인할 수 있음

Recommend Package, Library

1. **numpy** : 파이썬을 통한 과학 계산을 위한 패키지
2. **scipy** : 과학 계산용 함수를 모아놓은 파이썬 패키지
3. **matplotlib** : 과학 계산용 그래프 라이브러리
4. **pandas** : 데이터 처리와 분석을 위한 파이썬 라이브러리

End