
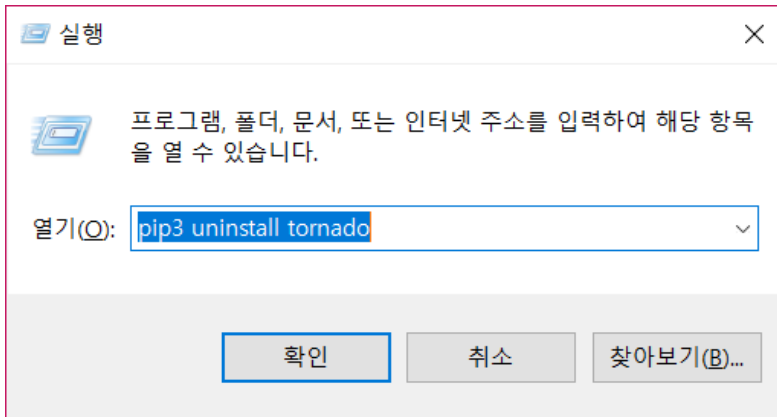


## Jupyter Notebook, Kernel 연결 오류에 대한 해결방안

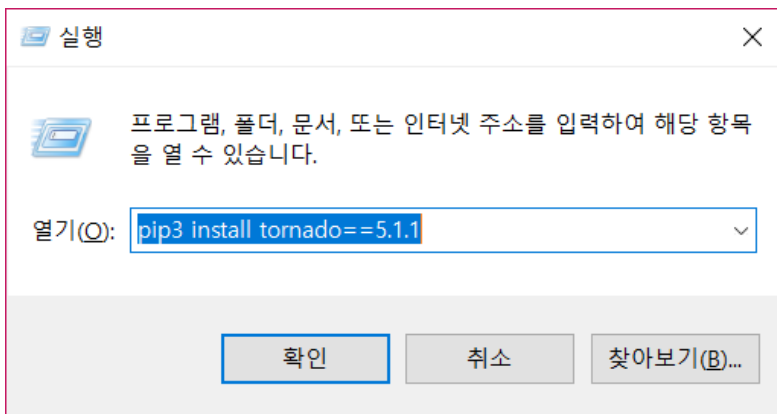
1. 기존 '파이썬 설치하기' 설치과정 모두 실행한 후, +R 실행.
2. 실행 창에서 "pip3 uninstall tornado" 입력 후 실행



```
C:\WINDOWS\system32\cmd.exe - pip3 uninstall tornado
Microsoft Windows [Version 10.0.17134.590]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\wdy>pip3 uninstall tornado
Uninstalling tornado-5.1.1:
  Would remove:
    c:\Users\wdy\AppData\Local\Programs\Python\Python37-32\Lib\site-packages\tornado-5.1.1.dist-info*
    c:\Users\wdy\AppData\Local\Programs\Python\Python37-32\Lib\site-packages\tornado*
Proceed (y/n)? y
```

3. "Proceed (y/n)?" 에서 **y** 입력
4. 실행 창에서 "pip3 install tornado==5.1.1" 입력



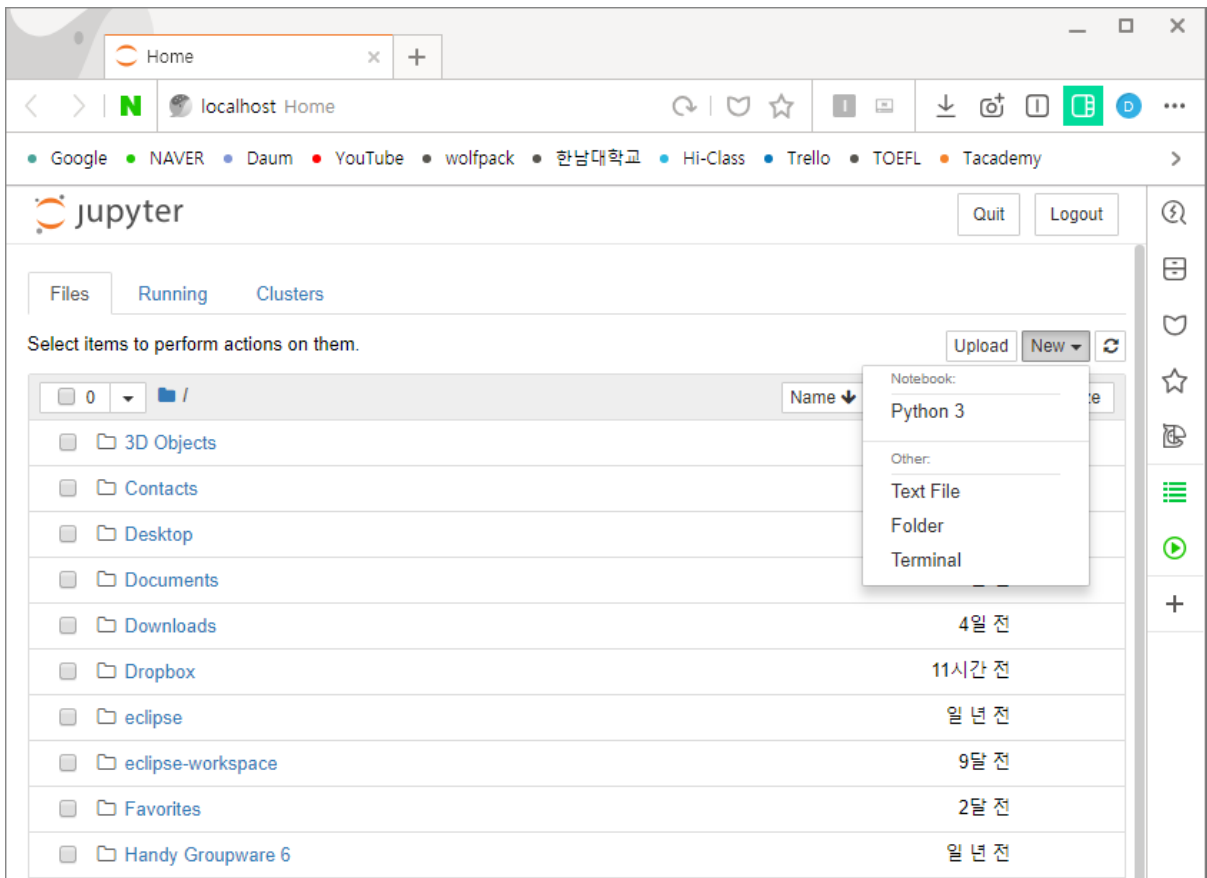
```
C:\Users\wdy>pip3 install tornado==5.1.1
Collecting tornado==5.1.1
  Using cached https://files.pythonhosted.org/packages/d4/1b/191715afe5a4fbc285e3292dfbe21f449f05b1edd85abc8c671bde5e9b1/tornado-5.1.1-cp37-cp37m-win32.whl
Installing collected packages: tornado
Successfully installed tornado-5.1.1
```

## 5. 실행 창에서 "jupyter notebook" 실행

```
C:\Users\dy\#AppData\Local\Programs\Python\Python37-32\Scripts\jupyter.exe
[18:59:51.220 NotebookApp] Serving notebooks from local directory: C:\Users\dy
[18:59:51.221 NotebookApp] The Jupyter Notebook is running at:
[18:59:51.221 NotebookApp] http://localhost:8888/?token=bc50e3b84283fae374e6508d74d82baa3d9cc5cac74f3377
[18:59:51.221 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 18:59:51.394 NotebookApp]

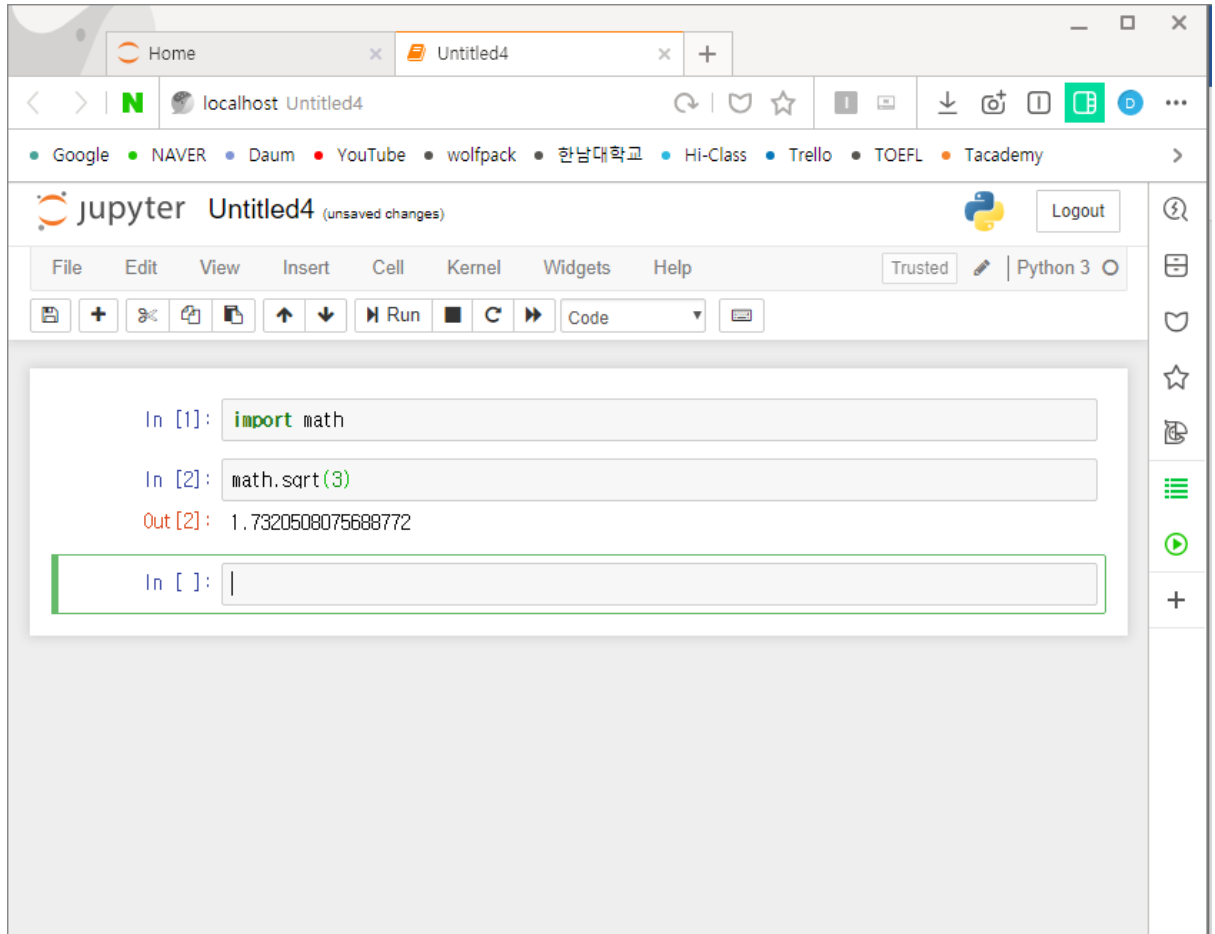
To access the notebook, open this file in a browser:
file:///C:/Users/dy/AppData/Local/Programs/Python/Python37-32/Scripts/jupyter.exe
Or copy and paste one of these URLs:
http://localhost:8888/?token=bc50e3b84283fae374e6508d74d82baa3d9cc5cac74f3377
```

## 6. "New -> Notebook: Python 3" 실행



7. In[1]: import math (Alt + Enter: 현재 줄 실행 + 다음 줄 생성)

In[2]: math.sqrt(3) (Ctrl + Enter: 현재 줄 실행)



The image shows a Jupyter Notebook interface in a web browser. The browser tab is titled 'Untitled4' and the address bar shows 'localhost Untitled4'. The Jupyter interface includes a menu bar with 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. Below the menu bar is a toolbar with icons for file operations and a 'Run' button. The main area contains three code cells:

```
In [1]: import math
```

```
In [2]: math.sqrt(3)
```

```
Out [2]: 1.7320508075688772
```

The third cell is currently empty and highlighted with a green border, indicating it is the active cell. The interface also shows a 'Logout' button and a 'Trusted' status indicator.