

## Python 3 installation on Windows

Go to <https://www.python.org/downloads/windows/> and search for Python 3.8.5:

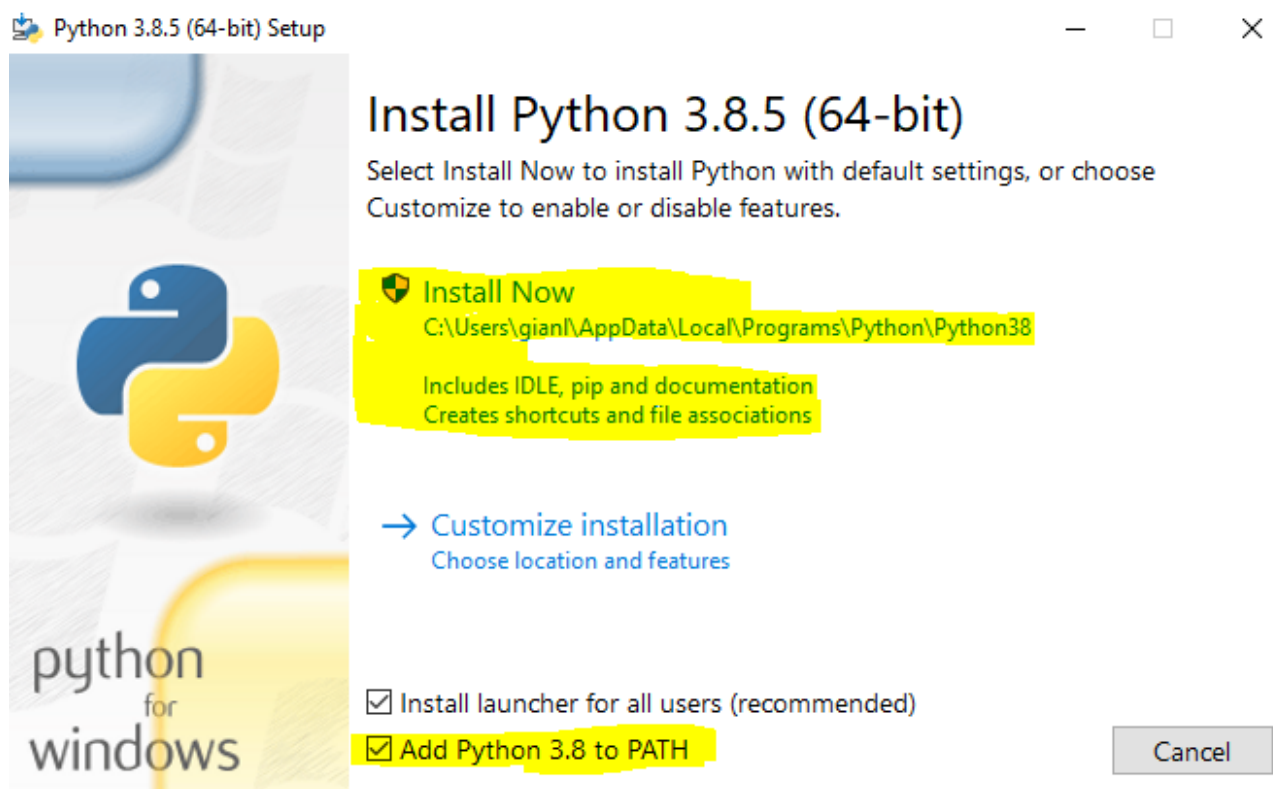
### ▪ [Python 3.8.5 - July 20, 2020](#)

**Note that Python 3.8.5 cannot be used on Windows XP or earlier.**

- Download [Windows help file](#)
- Download [Windows x86-64 embeddable zip file](#)
- Download [Windows x86-64 executable installer](#)
- Download [Windows x86-64 web-based installer](#)
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- Download [Windows x86 executable installer](#)
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Download the **Windows x86-64 executable installer**.

Once in the installer, be sure to check the “Add Python 3.8 to PATH” checkbox, then click on “Install Now”



Once the installation is completed, open the Windows command Prompt and try the following commands:

1. `python --version`
2. `python -m pip -V`

The result should be what is shown in the following image:

```
C:\Users\gianl>python --version
Python 3.8.5

C:\Users\gianl>python -m pip -V
pip 20.1.1 from C:\Users\gianl\AppData\Local\Programs\Python\Python38\lib\site-packages\pip (python 3.8)
```

After that issue the following commands:

1. `python -m pip install -U pip`
2. `python -m pip install virtualenv`

The result should be similar to what is shown in the following image:

```
C:\Users\gianl>python -m pip install -U pip
Collecting pip
  Downloading pip-21.1.1-py3-none-any.whl (1.5 MB)
    | 1.5 MB 3.3 MB/s
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 20.1.1
    Uninstalling pip-20.1.1:
      Successfully uninstalled pip-20.1.1
  Successfully installed pip-21.1.1

C:\Users\gianl>python -m pip install virtualenv
Collecting virtualenv
  Using cached virtualenv-20.4.6-py2.py3-none-any.whl (7.2 MB)
Requirement already satisfied: six<2,>=1.9.0 in c:\users\gianl\appdata\local\programs\python\python38\lib\site-packages (from virtualenv) (1.12.0)
Requirement already satisfied: filelock<4,>=3.0.0 in c:\users\gianl\appdata\local\programs\python\python38\lib\site-packages (from virtualenv) (3.0.12)
Requirement already satisfied: distlib<1,>=0.3.1 in c:\users\gianl\appdata\local\programs\python\python38\lib\site-packages (from virtualenv) (0.3.1)
Requirement already satisfied: appdirs<2,>=1.4.3 in c:\users\gianl\appdata\local\programs\python\python38\lib\site-packages (from virtualenv) (1.4.4)
Installing collected packages: virtualenv
Successfully installed virtualenv-20.4.6
```

To verify that everything has been installed correctly issue these last commands:

1. `mkdir test`
2. `cd test`
3. `python -m venv .\venv`
4. `.\venv\Scripts\activate`
5. `python --version`
6. `pip -V`
7. `deactivate`
8. `cd ..`
9. `rd /s /q test`

If every command worked as in the following image, everything is correctly installed

```
C:\Users\gianl>mkdir test

C:\Users\gianl>cd test

C:\Users\gianl\test>python -m venv .\venv

C:\Users\gianl\test>.\venv\Scripts\activate

(venv) C:\Users\gianl\test>python --version
Python 3.8.5

(venv) C:\Users\gianl\test>pip -V
pip 20.1.1 from c:\users\gianl\test\venv\lib\site-packages\pip (python 3.8)

(venv) C:\Users\gianl\test>deactivate
C:\Users\gianl\test>cd ..

C:\Users\gianl>rd /s /q test

C:\Users\gianl>
```