

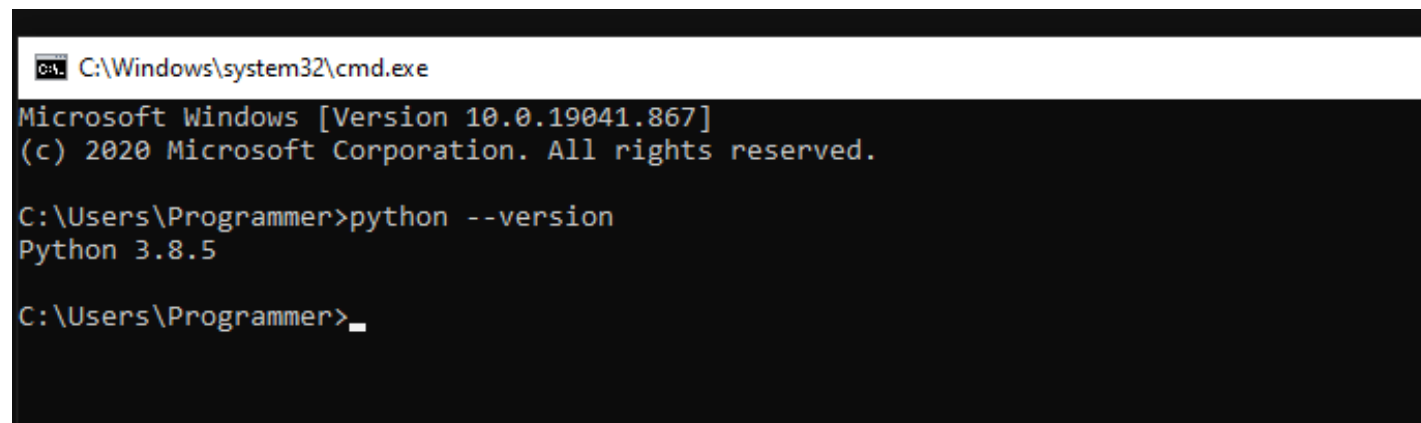
OpenCV and Matplotlib installation tutorial

What is OpenCV?

OpenCV is an open-source computer vision and machine learning software library. OpenCV was built to provide a common infrastructure for computer vision applications and to accelerate the use of machine perception in the commercial products. Being a BSD-licensed product, OpenCV makes it easy for businesses to utilize and modify the code.

Python

You must have Python installed in your system, at least Python 3.8.5. You can check in Terminal like this:

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\Windows\system32\cmd.exe'. The window content displays the Microsoft Windows version information (10.0.19041.867) and copyright notice. Below that, the command 'python --version' has been executed, resulting in the output 'Python 3.8.5'. The prompt is now 'C:\Users\Programmer>'.

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19041.867]
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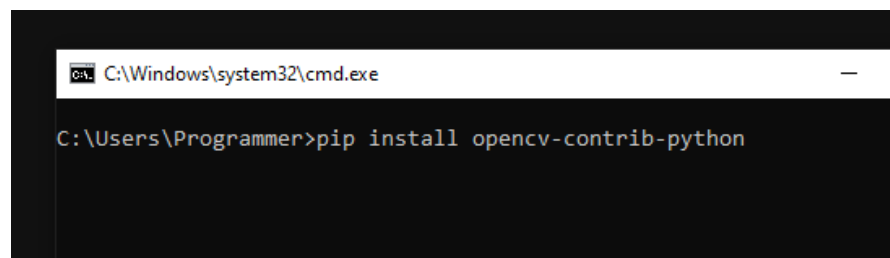
C:\Users\Programmer>python --version
Python 3.8.5

C:\Users\Programmer>
```

Package require

opencv-contrib-python

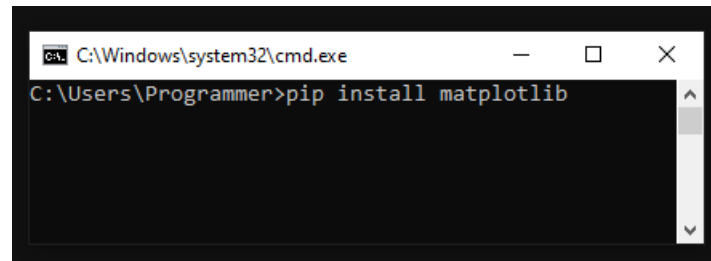
Include everything in the main module as well the contribution modules provided by the community. It is recommended than just install the main module.

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\Windows\system32\cmd.exe'. The window content shows the command 'pip install opencv-contrib-python' entered at the prompt 'C:\Users\Programmer>'.

```
C:\Windows\system32\cmd.exe
C:\Users\Programmer>pip install opencv-contrib-python
```

matplotlib

Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python.

A screenshot of a Windows Command Prompt window. The title bar at the top reads 'C:\Windows\system32\cmd.exe'. The command prompt shows the user's current directory as 'C:\Users\Programmer' and the command 'pip install matplotlib' has been entered. The command is highlighted in blue. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

Links

- <https://opencv.org/>
- <https://www.python.org/>