One of the required modules called "SFM" is not included in the default version of openCV and needs to be compiled from source. This module also depends on other libraries: eigen3,ceres, google's gflags and glog libraries.

1. Create a virtual environment using (where myenv is the name of the new environment:

python -m venv myenv

2. To activate it
source myenv/bin/activate (mac/linux)
.\myenv\Scripts\Activate.ps1 (windows)

Instead of compiling all the libraries manually there is a better way by using VCPKG which is a package manager for C++.

- 1. Install VCPKG from https://github.com/microsoft/vcpkg
- 2. Follow official guide:
 https://learn.microsoft.com/en-us/vcpkg/get started/get-started?p
 ivots=shell-powershell
- 3. Include VCPKG in Path

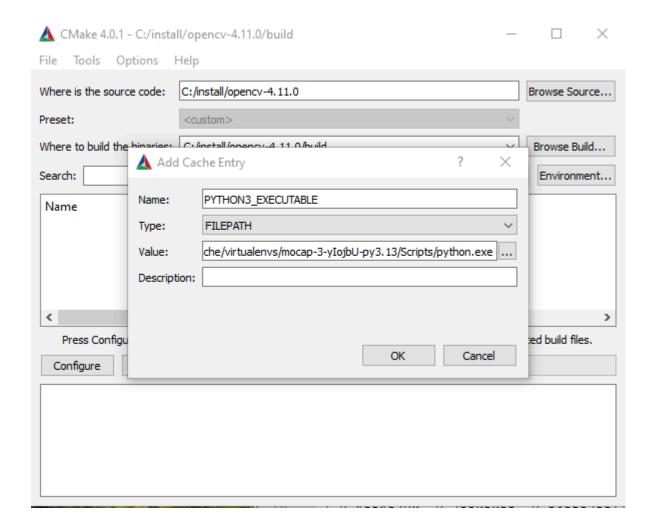
\$env:VCPKG_ROOT = "C:\path\to\vcpkg"
\$env:PATH = "\$env:VCPKG ROOT;\$env:PATH"

vcpkg install vtk:x64-windows eigen3:x64-windows gflags:x64-windows
qlog:x64-windows ceres:x64-windows hdf5:x64-windows ffmpeg:x64-windows

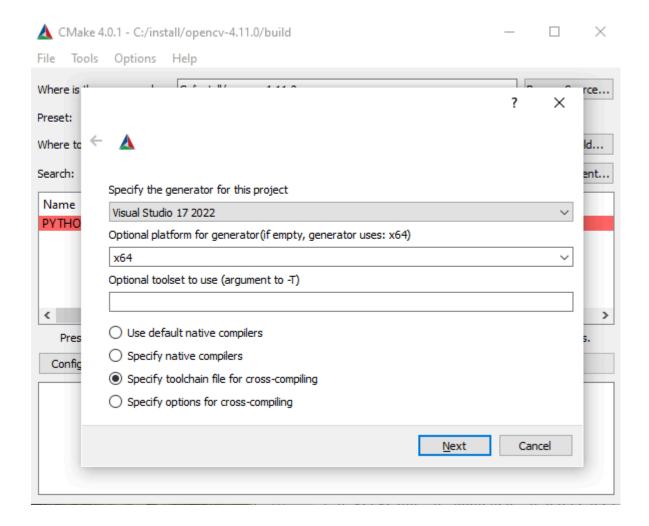
git clone https://github.com/opencv/opencv contrib.git
git clone https://github.com/opencv/opencv.git

Start cmakegui and specify the source and build directories:

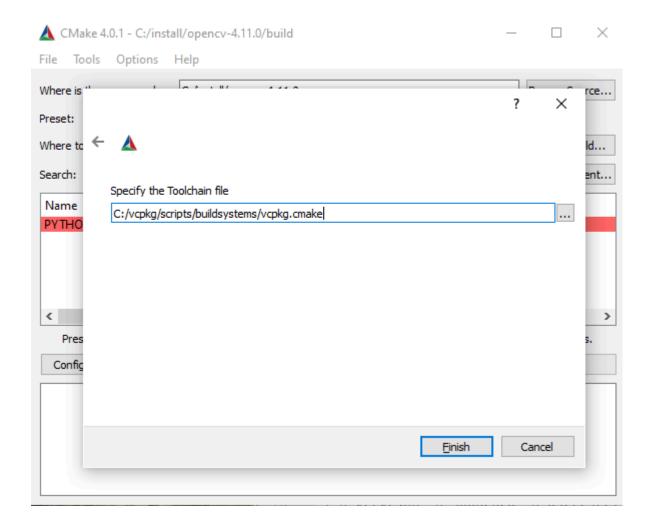
Click on Add Entry



Click on configure and set "specify toolcahin file for cross-compiling



Find the toolchain in the vcpk installed directory



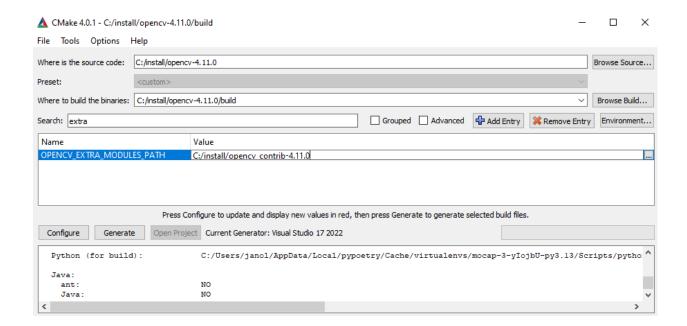
Click on finish and wait

Set OPENCV_ENABLE_NONFREE

Set OPENCV_FORCE_PYTHON_LIBS

Set OPENCV_PYTHON3_VERSION

Set OPENCV_EXTRA_MODULES_PATH to the path where the "opency-contrib" was saved



The "..." button can be used to select the path using explorer.

Click on Configure and than Generate

Finally open the project in Visual Studio 2022 Build all and build INSTALL

Visual Studio Installer

Installed Available All installations are up to date. Visual Studio Community 2022 Modify Launch Powerful IDE, free for students, open-source contributors, and individuals More ▼ Release notes Visual Studio Build Tools 2019 Modify 16.11.46 Launch The Visual Studio Build Tools allows you to build native and managed MSBuild-based More ▼ applications without requiring the Visual Studio IDE. There are options to install the Visual C ++ compilers and libraries, MFC, ATL, and C++/CLI support. Release notes

