

[windows 10] problem openpose 呼叫 python api 跑出 pyopenpose not model :

```
C:\Users\User\AppData\Local\Programs\Python\Python38\python.exe C:/Users/user/Documents/openpose-master/buildDemo/examples/tutorial_api_python/01_body_from_image.py
Error: OpenPose library could not be found. Did you enable 'BUILD_PYTHON' in CMake and have this Python script in the right folder?
No module named 'pyopenpose'

Process finished with exit code -1
```

騷敬大神協助解決：

(1)降低 python 版本至 3.7 (trans your python version to python3.7)

先至官網抓 python3.7.0 / Windows x86-64 executable installer

python.org/downloads/release/python-370/

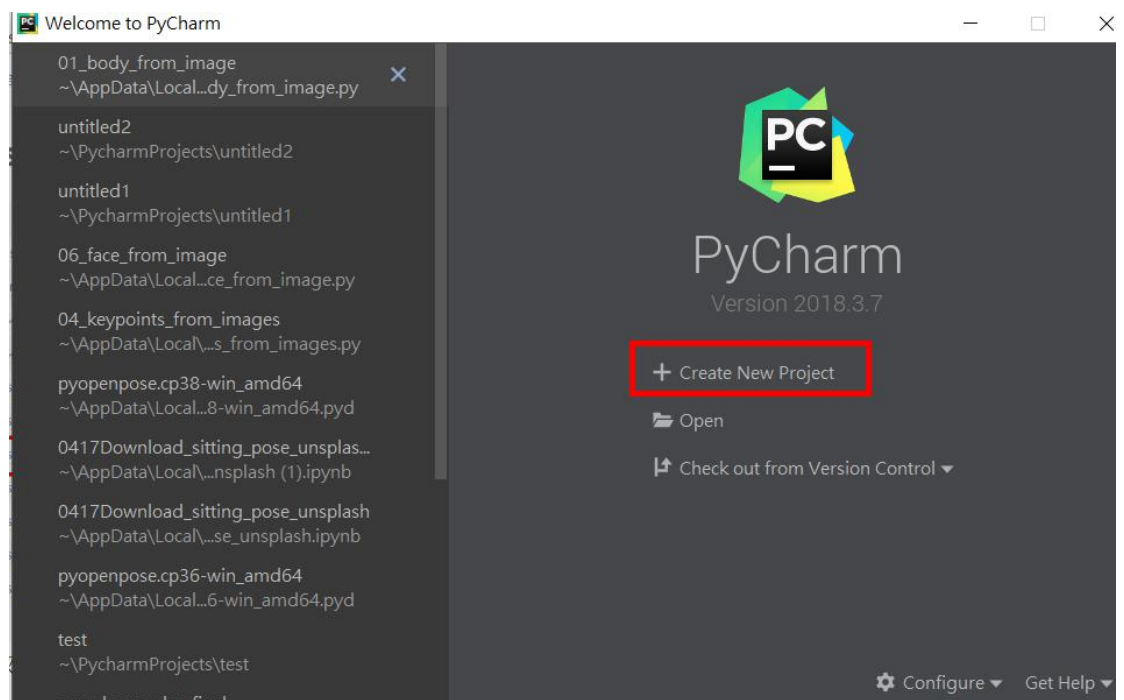
Both python.org installer variants include private copies of OpenSSL 1.1.0. Please carefully read the Important Information displayed during installation for information about SSL/TLS certificate validation and the Install Certificates.command.

[Full Changelog](#)

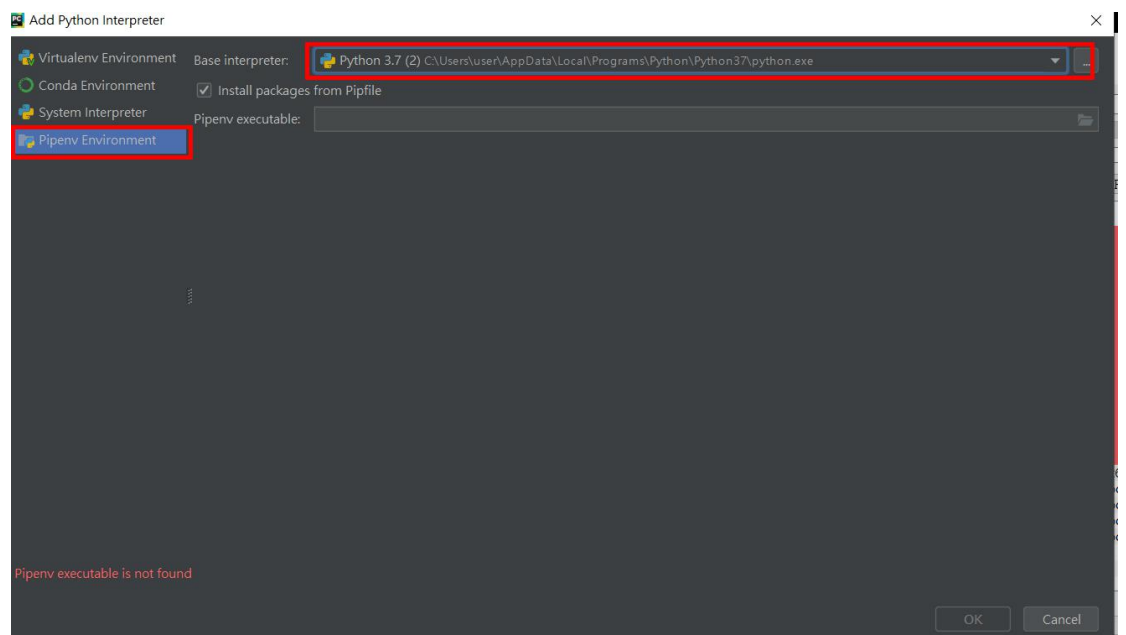
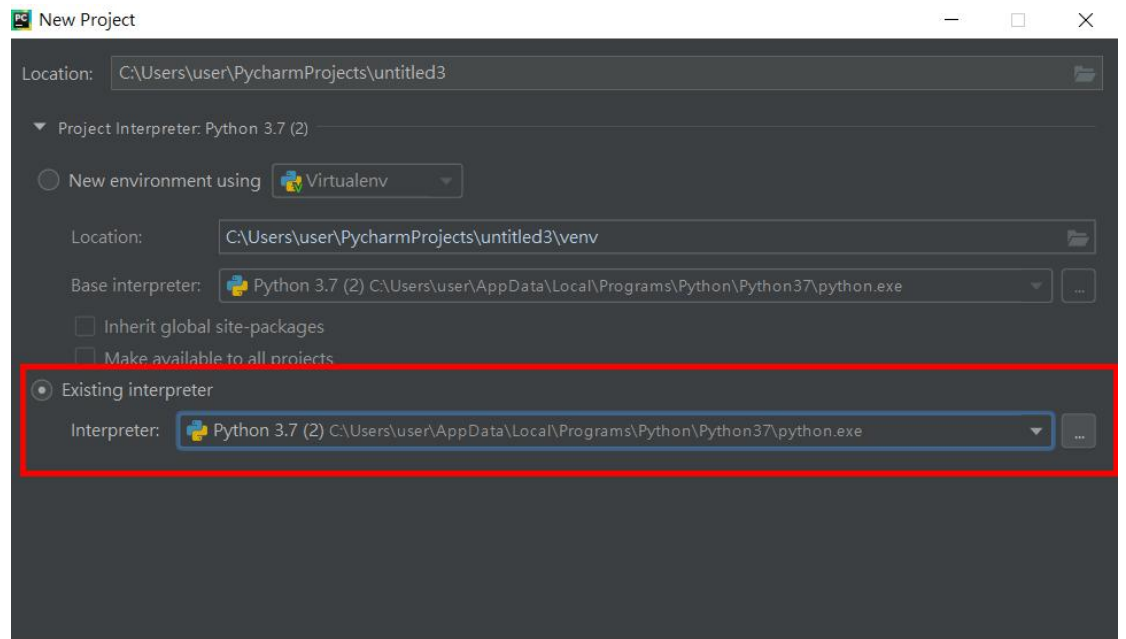
Files

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		41b6595deb4147a1ed517a7d9a580271	22745726	SIG
XZ compressed source tarball	Source release		eb8c2a6b1447d50813c02714af4681f3	16922100	SIG
macOS 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	ca3eb84092d0ff6d02e42f63a734338e	34274481	SIG
macOS 64-bit installer	Mac OS X	for OS X 10.9 and later	ae0717a02efea3b0eb34aad680dc498	27651276	SIG
Windows help file	Windows		46562af86c2049d0cc7680348180dca	8547689	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64	cb8b4f0d979a36258f73ed541def10a5	6946082	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64	531c3fc821ce0a4107b6d2c6a129be3e	26262280	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64	3cfdaf4c8d3b0475aaec12ba402d04d2	1327160	SIG
Windows x86 embeddable zip file	Windows		ed9a1c028c1e99f5323b9c20723d7d6f	6395982	SIG
Windows x86 executable installer	Windows		ebb6444c284c1447e902e87381afeff0	25506832	SIG
Windows x86 web-based installer	Windows		779c4085464eb3ee5b1a4fffd0eabca4	1298280	SIG

再來至 pycharm 上設置環境 (setting python3.7 in pycharm) :

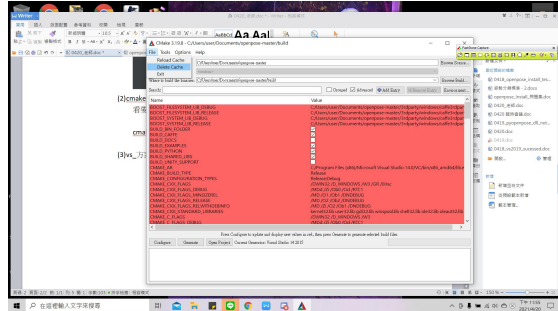


設置 python3.7 的 project

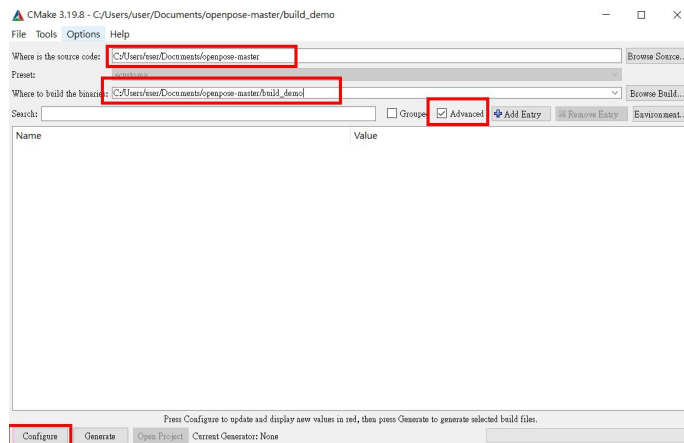


(2)cmake [rebuild]重建：

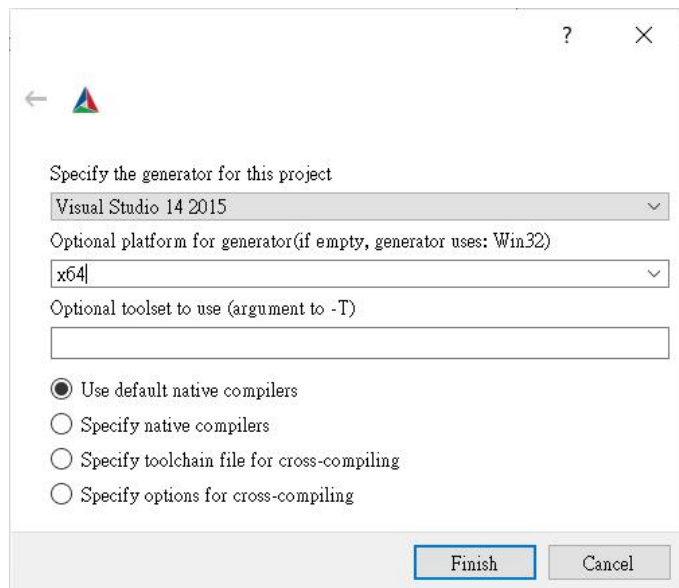
看要不要把 build 幹掉，如果不幹掉，再創一個新的 build2
然後 delete_Cache



把 source_code 跟 build the binaries 的路徑放好(insert your path)
-> advanced[check]勾起來 -> configures



選好你的版本 跟 位元組 choose your version



build_python 先 configure 1 次 (once time)

Name	Value
BOOST_FILESYSTEM_LIB_DEBUG	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/boost_filesystem-vc141-mt-gd-x64-1_69.lib
BOOST_FILESYSTEM_LIB_RELEASE	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/boost_filesystem-vc141-mt-x64-1_69.lib
BOOST_SYSTEM_LIB_DEBUG	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/boost_system-vc141-mt-gd-x64-1_69.lib
BOOST_SYSTEM_LIB_RELEASE	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/boost_system-vc141-mt-x64-1_69.lib
BUILD_BIN_FOLDER	<input checked="" type="checkbox"/>
BUILD_CAFFE	<input checked="" type="checkbox"/>
BUILD_DOCS	<input type="checkbox"/>
BUILD_EXAMPLES	<input checked="" type="checkbox"/>
BUILD_PYTHON	<input checked="" type="checkbox"/>
BUILD_SHARED_LIBS	<input checked="" type="checkbox"/>
BUILD_UNITY_SUPPORT	<input type="checkbox"/>
CMAKE_BUILD_TYPE	Release
CMAKE_CONFIGURATION_TYPES	Release;Debug
CMAKE_INSTALL_PREFIX	C:/Program Files/OpenPose
CUDA_ARCH	Auto
CUDA_HOST_COMPILER	\$(VCInstallDir)bin
CUDA_SDK_ROOT_DIR	CUDA_SDK_ROOT_DIR-NOTFOUND
CUDA_TOOLKIT_ROOT_DIR	C:/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v10.1
CUDA_USE_STATIC_CUDA_RUNTIME	<input checked="" type="checkbox"/>
Caffe_INCLUDE_DIRS	3rdparty/windows/caffe/include;3rdparty/windows/caffe/include2
Caffe_LIB	E:/openposeC++V2/3rdparty/windows/caffe/lib/caffe.lib
Caffe_Proto_LIB	E:/openposeC++V2/3rdparty/windows/caffe/lib/caffeproto.lib
DL_FRAMEWORK	CAFFE
DOWNLOAD_BODY_25_MODEL	<input checked="" type="checkbox"/>
DOWNLOAD_BODY_COCO_MODEL	<input checked="" type="checkbox"/>
DOWNLOAD_BODY_MPI_MODEL	<input checked="" type="checkbox"/>
DOWNLOAD_FACE_MODEL	<input checked="" type="checkbox"/>
DOWNLOAD_HAND_MODEL	<input checked="" type="checkbox"/>
GFLAGS_LIBRARY_DEBUG	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/gflagsd.lib
GFLAGS_LIBRARY_RELEASE	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/gflags.lib
GLOG_LIBRARY_DEBUG	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/glogd.lib
GLOG_LIBRARY_RELEASE	E:/openposeC++V2/3rdparty/windows/caffe3rdparty/lib/glog.lib
GPU_MODE	CUDA
INSTRUCTION_SET	NONE
OpenCV_LIBS	E:/openposeC++V2/3rdparty/windows/opencv/x64/vc15/lib/opencv_world411.lib
PROFILER_ENABLED	<input type="checkbox"/>
PYBIND11_CPP_STANDARD	/std:c++14
PYBIND11_INSTALL	<input type="checkbox"/>
PYBIND11_PYTHON_VERSION	

Press Configure to update and display new values

Configure Generate Open Project Current Generator: Visual Studio 14 2015 Win64

更改 python3.7 路徑 (change python_executable path to python3.7)

CMake 3.19.8 - C:/Users/user/Documents/openpose-master/build_demo

File Tools Options Help

Where is the source code: C:/Users/user/Documents/openpose-master Browse Source

Presets: <custom>

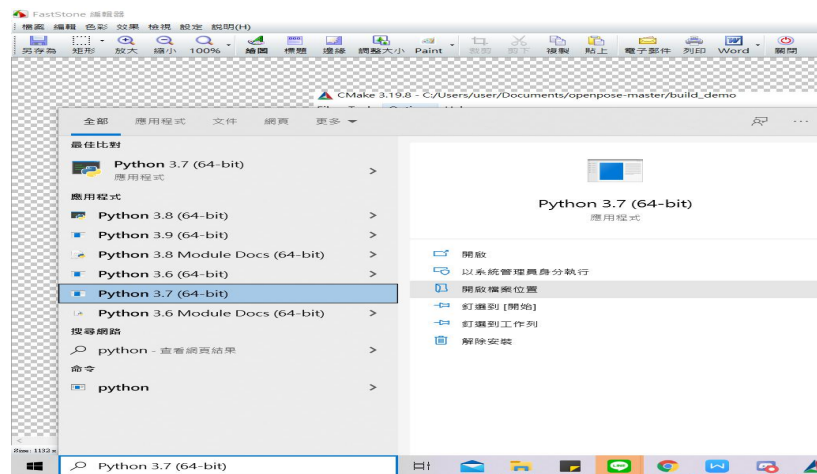
Where to build the binaries: C:/Users/user/Documents/openpose-master/build_demo Browse Build

Search: [] ☐ Grouped ☒ Advanced ☒ Add Entry ☒ Remove Entry Environment

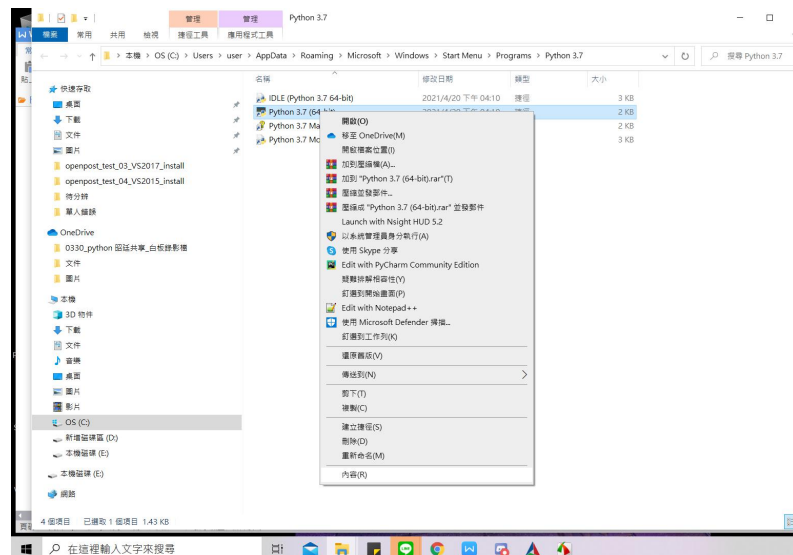
Name	Value
CMAKE_INSTALL_LIBDIR	lib
CMAKE_INSTALL_LIBEXECDIR	libexec
CMAKE_INSTALL_LOCALDIR	
CMAKE_INSTALL_LOCALSTATEDIR	var
CMAKE_INSTALL_MANDIR	
CMAKE_INSTALL_OLDINCLUDEDIR	/usr/include
CMAKE_INSTALL_RUNSTATEDIR	
CMAKE_INSTALL_SBINDIR	sbin
CMAKE_INSTALL_SHAREDSTATEDIR	com
CMAKE_INSTALL_SYSCONFDIR	etc
PYBIND11_FINDPYTHON	<input type="checkbox"/>
PYBIND11_INSTALL	<input type="checkbox"/>
PYBIND11_NOPYTHON	<input type="checkbox"/>
PYBIND11_PYTHON_VERSION	
PYTHON_EXECUTABLE	C:/Program Files/WindowsApps/PythonSoftwareFoundation.Python.3.9.1264.0_x64_qbz5n2kfra8p0/python3.9.exe
BOOST_FILESYSTEM_LIB_DEBUG	C:/Users/user/Documents/openpose-master/3rdparty/windows/caffe3rdparty/lib/boost_filesystem-vc142-mt-gd-x64-1_74.lib
BOOST_FILESYSTEM_LIB_RELEASE	C:/Users/user/Documents/openpose-master/3rdparty/windows/caffe3rdparty/lib/boost_filesystem-vc142-mt-gd-x64-1_74.lib
BOOST_SYSTEM_LIB_DEBUG	C:/Users/user/Documents/openpose-master/3rdparty/windows/caffe3rdparty/lib/boost_system-vc142-mt-gd-x64-1_74.lib
BOOST_SYSTEM_LIB_RELEASE	C:/Users/user/Documents/openpose-master/3rdparty/windows/caffe3rdparty/lib/boost_system-vc142-mt-gd-x64-1_74.lib
BUILD_BIN_FOLDER	<input checked="" type="checkbox"/>
BUILD_CAFFE	<input checked="" type="checkbox"/>
BUILD_DOCS	<input type="checkbox"/>

python3.7 的路徑如果找不到，可以到這邊，開啟檔案位置

If you don't find the path, you could use windows serf to find python3.7, then open start position, then copy it.

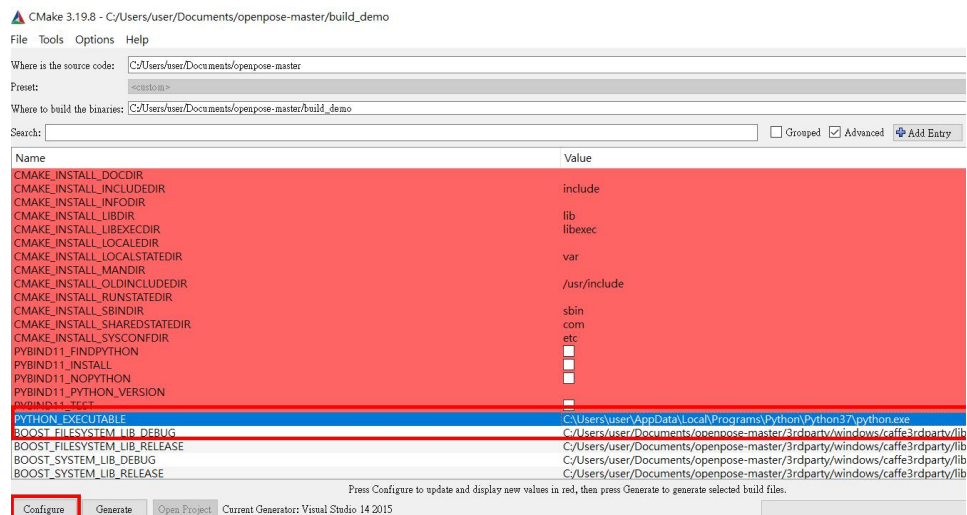


內容 -> 複製路徑 (copy_path)



路徑改成 python3.7 後，再 configure 一次

change the path to python37, then configure



確認沒有紅紅的區塊，再 generate
confirm non area is red, then generate

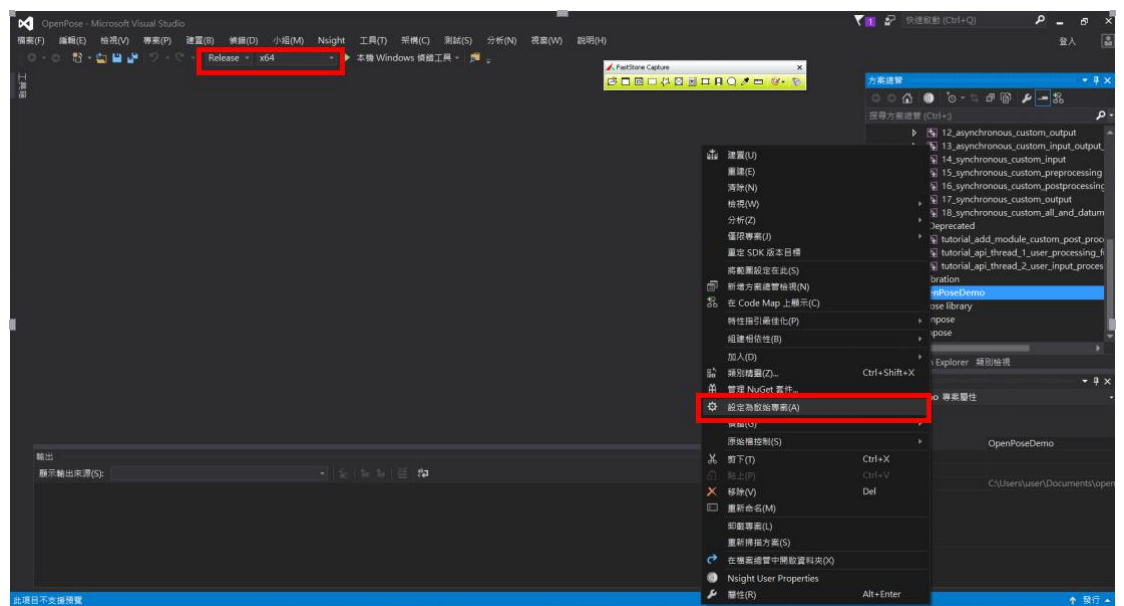


再 then open project

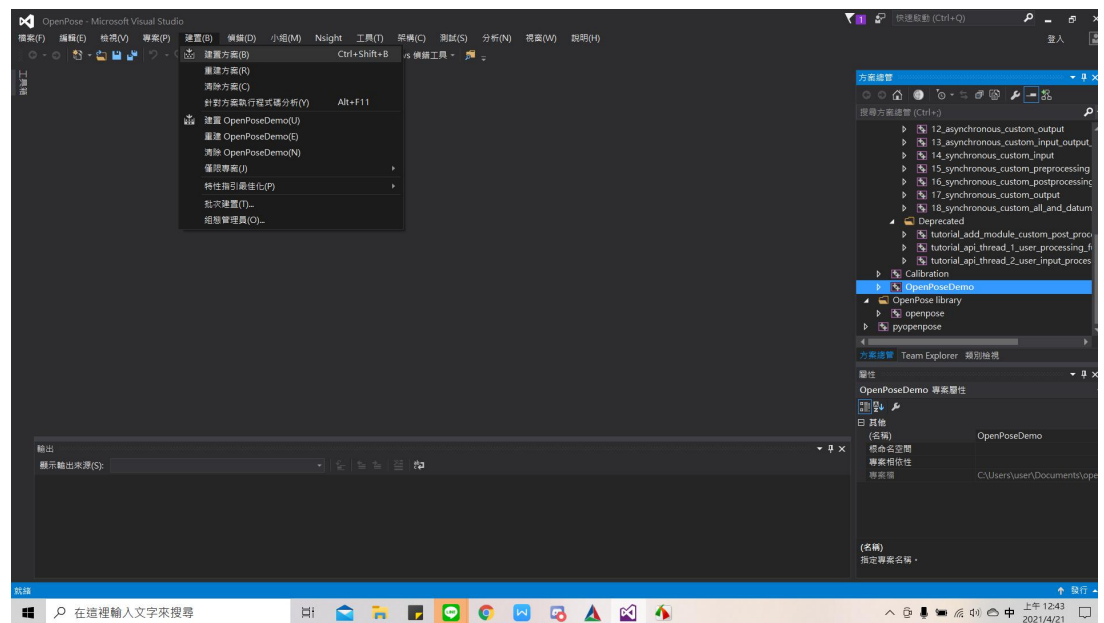
(3)vs_方案重建 Build_Project

將 Debug 換成 release (first change Debug to release)

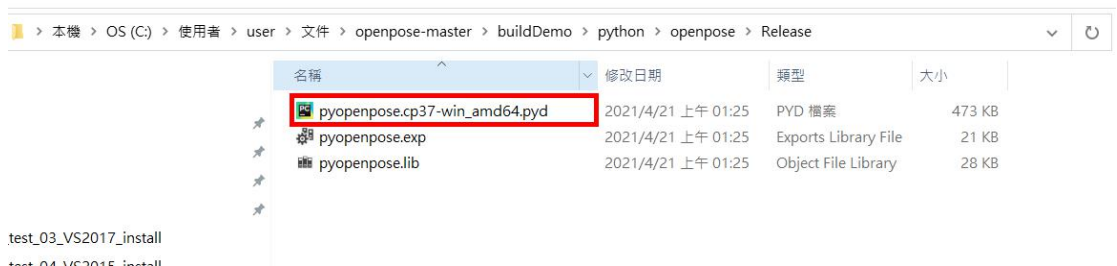
將 openposeDemo 設為啟動專案 (second default start project is openposeDemo)



建置方案 build_project

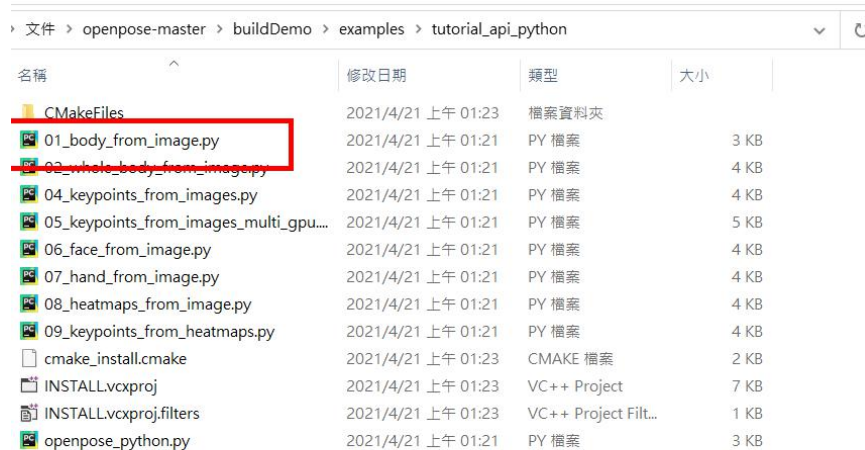


去 `openpose-master\buildDemo\python\openpose\Release`
查看有沒有生成 `pyd` 檔 (check the file .pyd)

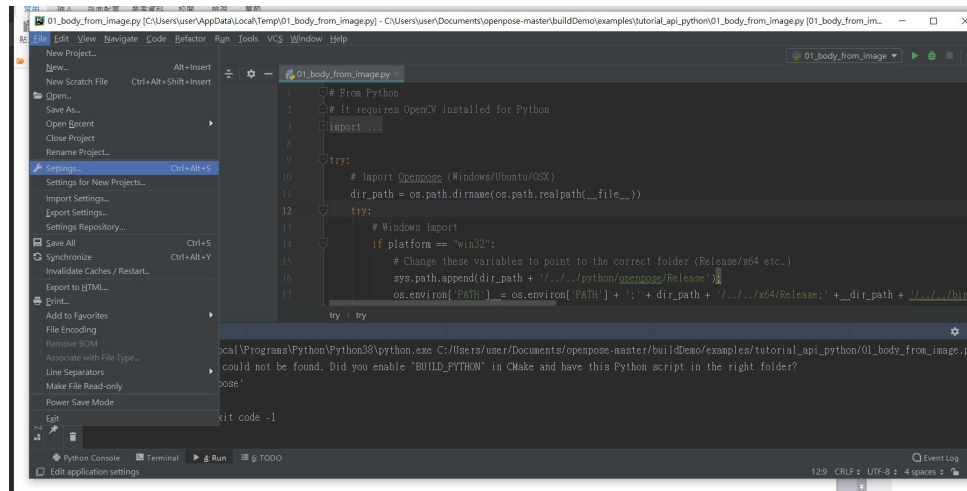


test_03_VS2017_install
test_04_VS2015_install

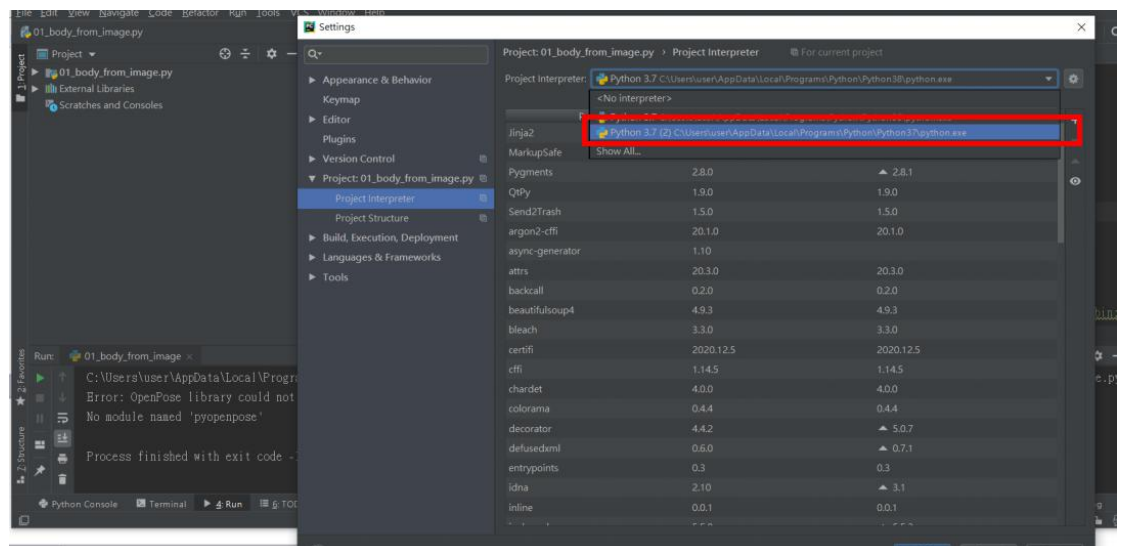
再去 `openpose-master\buildDemo\examples\tutorial_api_python`
找一個 `py` 檔打開執行 `python` (open anyone .py file)



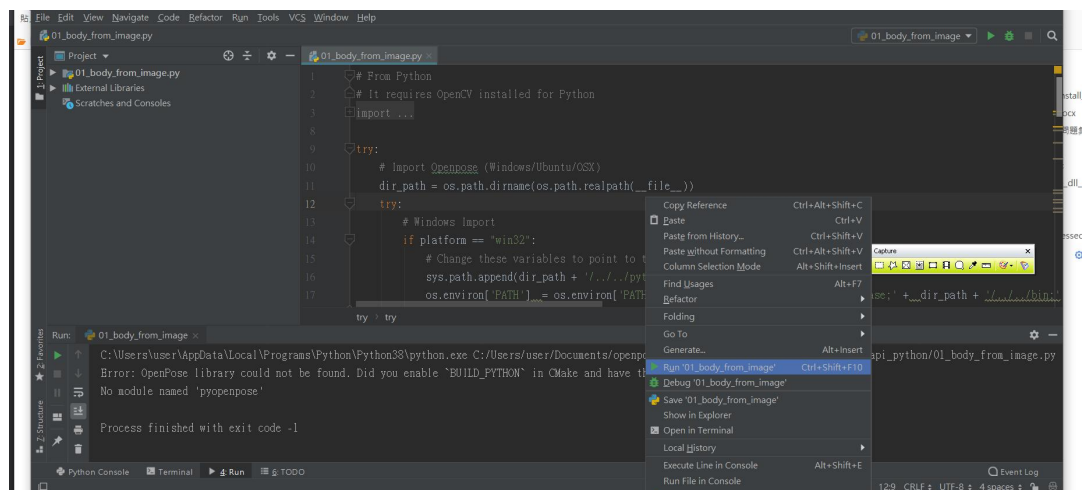
確認 setting 有沒有改到 python37
(make sure that setting is change python37)



改成 python37
change to python37

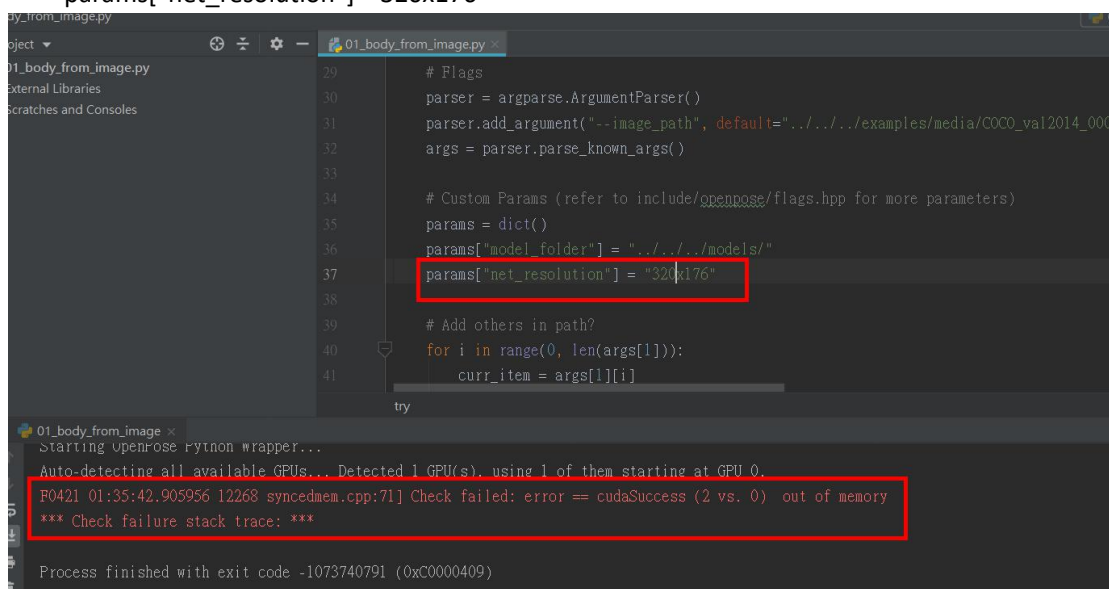


執行 run



如果 Ram 不夠，跳出 out of memory，可以加入指令：

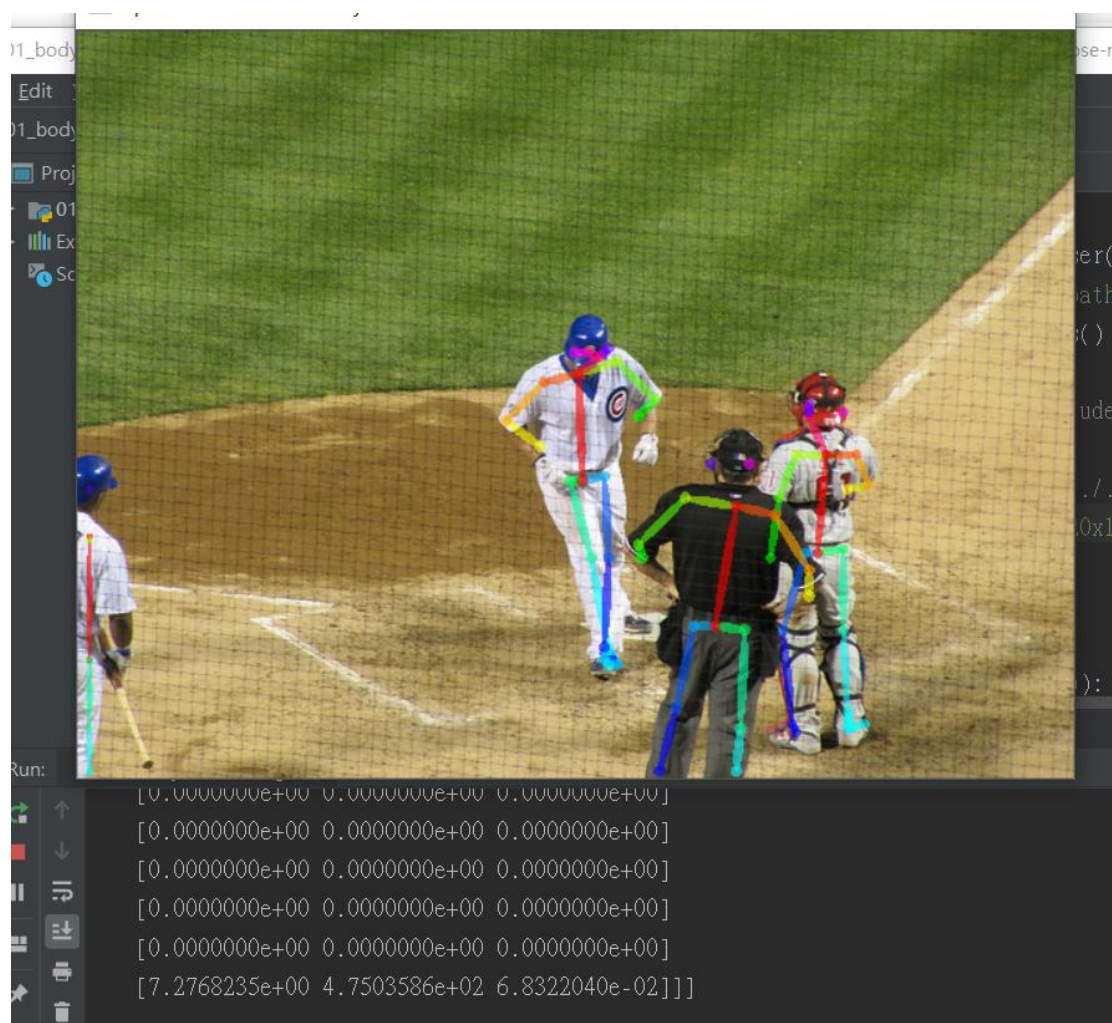
`params["net_resolution"]="320x176"`



```
01_body_from_image.py
29 # Flags
30 parser = argparse.ArgumentParser()
31 parser.add_argument("--image_path", default="../../../examples/media/COCO_val2014_000000000000.jpg")
32 args = parser.parse_known_args()
33
34 # Custom Params (refer to include/openpose/flags.hpp for more parameters)
35 params = dict()
36 params["model_folder"] = "../../../models/"
37 params["net_resolution"] = "320x176"
38
39 # Add others in path?
40 for i in range(0, len(args[1])):
41     curr_item = args[1][i]
```

01_body_from_image ×
Starting OpenPose Python wrapper...
Auto-detecting all available GPUs... Detected 1 GPU(s), using 1 of them starting at GPU 0.
P0421 01:35:42.905956 12268 syncedmem.cpp:71] Check failed: error == cudaSuccess (2 vs. 0) out of memory
*** Check failure stack trace: ***
Process finished with exit code -1073740791 (0xC0000409)

搞定 finish



指令集

params

<https://blog.csdn.net/zziehgf/article/details/84668319>