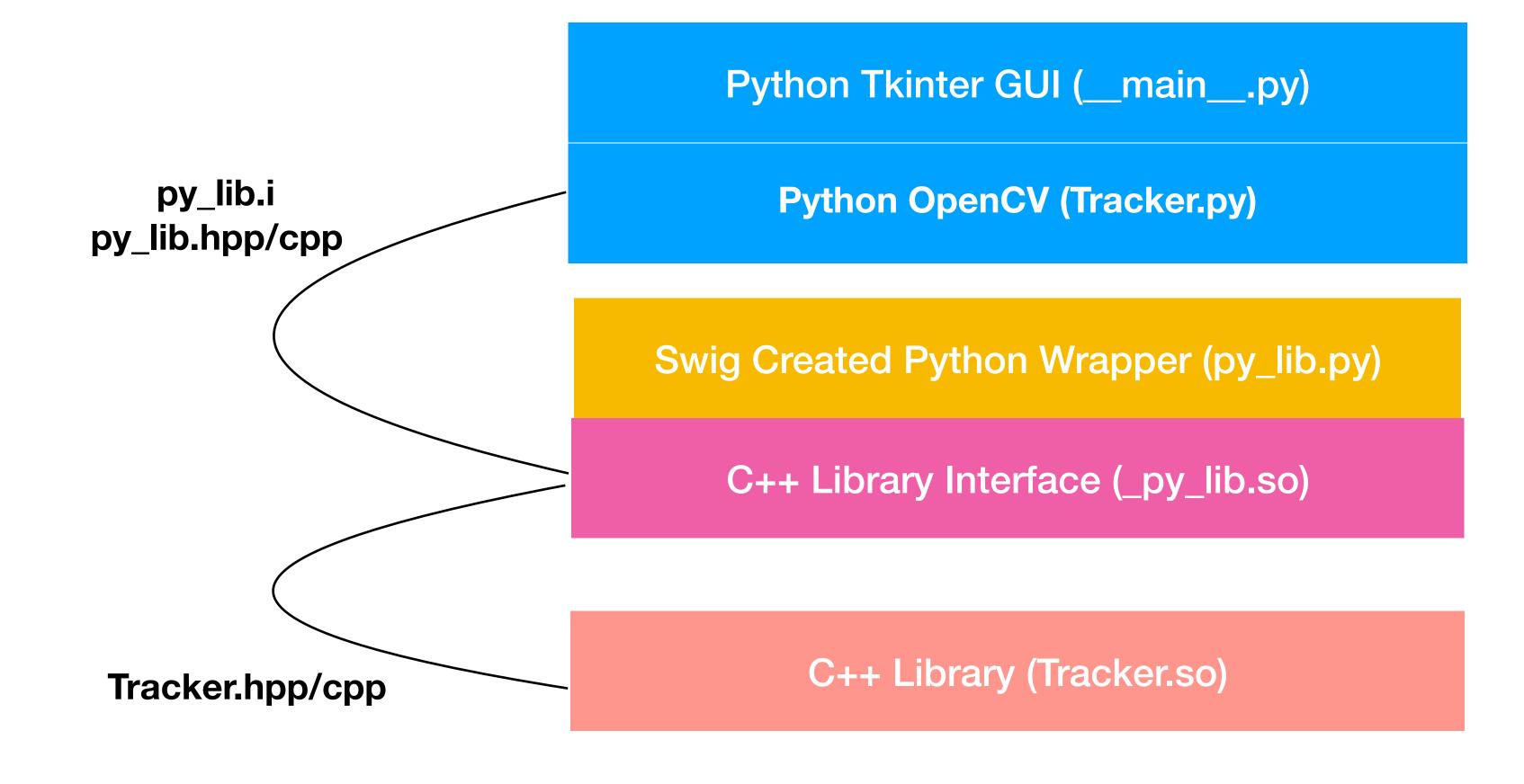
Swig



Install OpenCV

```
git clone <a href="https://github.com/opencv/opencv.git">https://github.com/opencv/opencv.git</a>
cd opencv
git clone <a href="https://github.com/opencv/opencv_contrib.git">https://github.com/opencv/opencv_contrib.git</a>
```

mkdir release cd release

```
cmake .. -DCMAKE_BUILD_TYPE=Release -DBUILD_EXAMPLES=ON -DOPENCV_GENERATE_PKGCONFIG=ON -DCMAKE_INSTALL_PREFIX=/usr/local -DOPENCV_EXTRA_MODULES_PATH=../opencv_contrib/modules
```

make -j7 sudo make install

Install OpenCV-Swig

git clone https://github.com/renatoGarcia/opencv-swig.git cd opencv-swig

mkdir build cd build

cmake .. -DCMAKE_INSTALL_PREFIX=/usr/local make install

Build Module (py_lib as example)

create a project with py_lib.i, py_lib.hpp/cpp

swig -l/usr/local/include/opencv4 -l/usr/local/share/swig/any -python -c++ py_lib.i

g++ -fPIC -c py_lib_wrap.cxx py_lib.cpp \$(python3-config --include) \$(pkg-config opencv4 --cflags) -std=c++11

g++ -shared -rpath /usr/local/lib/ py_lib_wrap.o py_lib.o -o _py_lib.so -L/Library/ Frameworks/Python.framework/Versions/3.8/lib -lpython3.8 `pkg-config opencv4—libs`

Makefile

write py_lib.i
 write py_lib.hpp/cpp
 swig to generate py_lib_wrap.cxx & py_lib.py
 g++ to genearte py_lib.o py_lib_wrap.o
 g++ to generate _py_lib.so

```
all: _py_lib.so

_py_lib.so: py_lib_wrap.o py_lib.o

    $(MAKE) -C libs
    $(CXX) -shared -rpath ${RPATH} $^ ${LIBS} ${PROJLIBS} -o $@

py_lib_wrap.o: py_lib_wrap.cxx
    $(CXX) ${CXXFLAGS} -c $? -o $@

py_lib.o: py_lib.cpp
    $(CXX) ${CXXFLAGS} -c $? -o $@

py_lib_wrap.cxx : py_lib.i py_lib.hpp

swig ${SWIGINC} -python -c++ py_lib.i
```