## Swig

Python TKInger GUI (\_\_main\_\_.py)

Python OpenCV (Tracker.py)

Swig Created Python Wrapper (PyLib.py)

Swig Created C++ Wrapper (\_PyLib.so)

C++ Library Interface (PyLib.cpp)

C++ Library (Tracker.cpp)

## Makefile

write py\_lib.i
 write py\_lib.hpp/cpp
 swig to generate py\_lib\_wrap.cxx
 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
```