

CMakeLists.txt

Makefile

```
1 cmake_minimum_required(VERSION 2.8)
2
3 project("My little project")
4
5 # Call as cmake -G 'Unix Makefiles' -B"${build directory}" -H"${source directory}"
6 # or with build directory as the working directory
7 # cmake "${source directory}"
8 # then a Makefile will be generated.
9 # Proceed with make && make install
10
11 # add include directories
12 include_directories("/opt/local/include" /usr/local/include "${CMAKE_SOURCE_DIR}" /here/are/my/headers
13
14 # Require C++ 11
15 # DO THIS BEFORE ANY add_executable OR add_library
16 set(CXX_STANDARD_REQUIRED on)
17 set(CXX_STANDARD 11)
18
19
20 # Build foo from foo.cpp and bar from bar.cpp
21 set(programs foo bar)
22 foreach(prog ${programs})
23     add_executable(${prog} ${prog}.cpp)
24 endforeach()
25
26 # build qux using more than one dependency
27 add_executable(qux qux.cpp otherDependency.cpp)
28
29 # build a static library
30 add_library(myIntegrationLibrary STATIC myIntegrationLibrary.cpp)
31
32 # build a dynamic library
33 add_library(myDynamicLib SHARED myDynamicLib.cpp)
34
35 # link executable
36 target_link_libraries(qux MyIntegrationLibrary myDynamicLib)
37
38 # install targets to somewhere
39 install(TARGETS foo bar qux
40     ARCHIVE DESTINATION /path/for/static_libs
41     LIBRARY DESTINATION /path/for/dynamic_libs
42     RUNTIME DESTINATION /path/for/binaries)
43
44 # install other files
45 install(FILES myPrettyHeader.hpp DESTINATION /path/for/includes)
46
47 # build also stuff in subdirectories
48 set_directoriesToProcess(this and that)
49 foreach(dir ${directoriesToProcess})
50     add_subdirectory(${dir})
51 endforeach()
```