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Unit testing with CMake, GTest and GMock

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README.md

Unit testing with CMake, GTest and GMock

Configuring CMake to use GTest

For default CMake provides a FindGTest.cmake, so just use find_package to locate GTest

```
find_package(GTest REQUIRED)
include_directories(${GTEST_INCLUDE_DIRS})
target_link_libraries(gtest_gmock_cmake_example ${GTEST_BOTH_LIBRARIES})
```

Configuring CMake to use GMock

For default CMake doesn't provide a find for GMock. You can use this one:

<https://github.com/triglav/cmake-findgmock>

Put it under a folder **modules** and append this folder to the list *CMAKE_MODULE_PATH*

```
list(APPEND CMAKE_MODULE_PATH "${CMAKE_CURRENT_SOURCE_DIR}/modules")
```

Now use the find package for GMock as you did with GTest

```
find_package(GMock REQUIRED)
include_directories(${GMOCK_INCLUDE_DIRS})
target_link_libraries(gtest_gmock_cmake_example ${GMOCK_BOTH_LIBRARIES})
```

Creating the test

In the main function, we need to call **InitGoogleMock** before running the tests in order to initialize Google Mock and Google Test.

```
int main(int argc, char** argv)
{
    ::testing::InitGoogleMock(&argc, argv);
    return RUN_ALL_TESTS();
}
```

Using Mocks in Tests

TODO

References

Google test <https://code.google.com/p/googletest/wiki/Primer>

Google mock <https://code.google.com/p/googlemock/wiki/ForDummies>