# GoogleTest

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This page explains how to install the Google Test framework on Ubuntu.

## Install dependencies and tools

First, install GCC, GNU Make and Git if you haven't already.

```
$ sudo apt update
$ sudo apt install gcc g++ make git
```

#### Download, build and install

```
#!/usr/bin/env bash
    # Script to download and install GoogleTest
    set -ex
    version="release-1.10.0" # Release tag on GitHub builddir="/tmp"
    prefix="$HOME/.local"
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    cd /tmp
    git clone --single-branch --depth=1 --branch $version \
https://github.com/google/googletest.git
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    mkdir googletest/build && cd $_
     # Configure
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    cmake .. -DCMAKE_INSTALL_PREFIX=$HOME/.local -DCMAKE_BUILD_TYPE=Release
# Build
    make -j$(nproc)
# Install
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    make install
```

## Usage

To use GoogleTest in your project, you can use the following CMake snippet:

```
enable_testing()
find_package(GTest REQUIRED)
include(GoogleTest)

add_executable(test-exe test.cpp)
target_link_libraries(test-exe PUBLIC GTest::gtest_main)

if(NOT CMAKE_CROSSCOMPILING)
gtest_discover_tests(test-exe)
endif()
```

CMake has to find GoogleTest, so you need to make sure that \$HOME/.local is in its search paths. See Installing Locally.

### Tested on

• Ubuntu 19.10 - GoogleTest 1.10.0