CMake Hello World Tutorial (Written Using [CMake Documentation](#))
Part 1: Install [CMake](#)

Part 2: Create *tutorial.cpp* and *CMakeLists.txt*

Basic setup for CMakeLists.txt

```
cmake_minimum_required(VERSION 3.0)

project(Tutorial)

add_executable(
        Tutorial
        tutorial.cpp
)
```

cmake_minimum_required(VERSION 3.0)
  - Sets the minimum required version to use this CMake for this project
project(Tutorial)
  - Sets the project name
add_executable(…)
  - Setting the executable file name (Tutorial) and the source files to compile the executable with (tutorial.cpp)

Part 3: Add a version number to your project
Updating line 3 of our CMakeLists.txt, we may add a version number to our project, in this case specifying version 1.0

```
cmake_minimum_required(VERSION 3.0)

project(Tutorial VERSION 1.0)

add_executable(
        Tutorial
        tutorial.cpp
)
```

Part 4: Compiling and creating our build path

After writing your hello world program, we may compile our project.

Create a build directory called *build*. And run the command: *cmake -S ./ -B ./build -G "MinGW Makefiles"*
- -S ./
    - The path to our source, and where CMakeLists.txt is located
- -B ./build
    - Building to the directory build. It's optional to not create a build directory, however your project will be very clustered without one
- -G "MinGW Makefiles"
    - Making our project using MinGW Makefiles, not nmake which is the CMake default