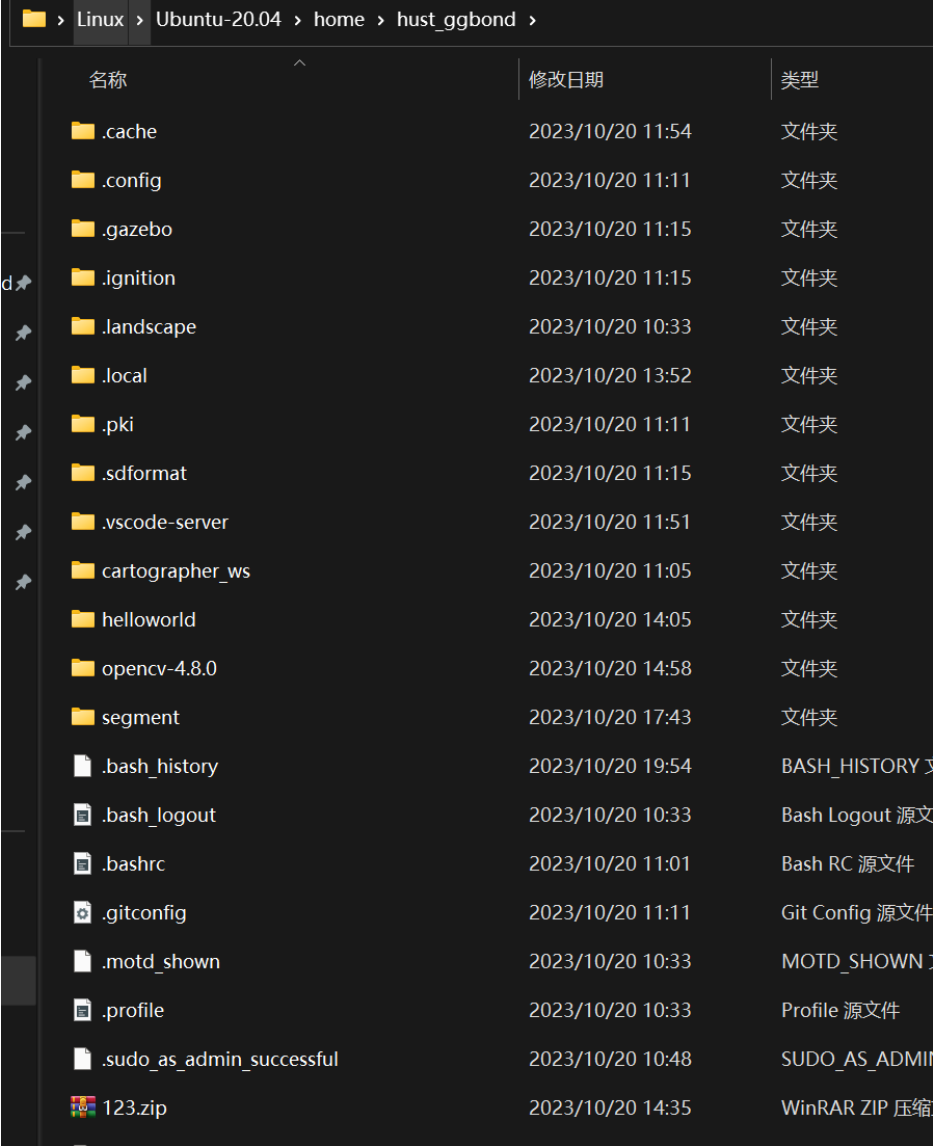


# cmak学习提交文档

## 任务一：安装linux系统

由于双系统安装后一直出现键盘无法连接的问题，所以最后安装了WSL2 的Linux子系统，版本为Ubuntu 20.04.6LTS,同时安装了ros noetic版本和相应功能包



## 任务三，用GCC编译hello world代码

以下是我用来测试编译的helloworld文件代码

```
#include<stdio.h>
#include<iostream>
using namespace std;
int main(){

cout<<"helloworld"<<endl;

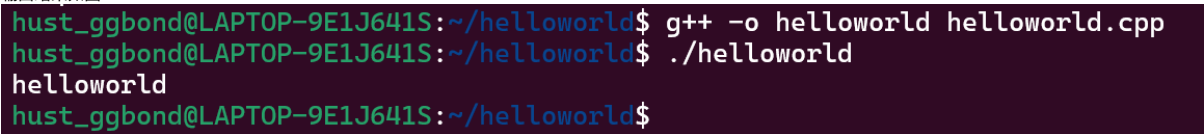
return 0;

}
```

进行gcc编译时输入的指令

```
g++ -o helloworld helloworld.cpp
```

输出结果如图



## 任务四 cmake的简单使用

以下是我编写的CMakeLists.txt源码

```
cmake_minimum_required(VERSION 3.16.3)
project(haha)
add_executable(heihei helloworld.cpp)
set(CMAKE_CXX_STANDARD 11)
```

以下是实现结果

```
hust_ggbond@LAPTOP-9E1J641S:~/helloworld$ mkdir build
hust_ggbond@LAPTOP-9E1J641S:~/helloworld$ cd build
hust_ggbond@LAPTOP-9E1J641S:~/helloworld/build$ cmake ..
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Configuring done
-- Generating done
-- Build files have been written to: /home/hust_ggbond/helloworld/build
hust_ggbond@LAPTOP-9E1J641S:~/helloworld/build$ make
Scanning dependencies of target heihei
[ 50%] Building CXX object CMakeFiles/heihei.dir/helloworld.cpp.o
[100%] Linking CXX executable heihei
[100%] Built target heihei
hust_ggbond@LAPTOP-9E1J641S:~/helloworld/build$ ./heihei
helloworld
hust_ggbond@LAPTOP-9E1J641S:~/helloworld/build$
```

## 任务六 cmake实践

以下是我补充编写的CMakeLists.txt文件源码

```
cmake_minimum_required(VERSION 2.8)
project(segmentation)
set(CMAKE_CXX_STANDARD 11)

find_package(OpenCV 4 REQUIRED)
include_directories(${CMAKE_CURRENT_SOURCE_DIR}/include)
include_directories(${OPENCV_INCLUDE_DIRS})
set(SOURCE_FILES src/main.cpp src/segment.cpp )

add_executable(segmentation ${SOURCE_FILES})
target_link_libraries(segmentation ${OpenCV_LIBS})
```

此外，还更改了main文件中关于图片的地址。