Modern C++for Computer Vision and Image Processing Institute of Geodesy and Geoinformation Page 1



## Homework. 1: Bash and Build System

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Handout: 20.04.2020

Handin: 08.05.2020 at 23:59:59 (CET)

To do this homework you will need to download the files from e-Campus. All the needed files are in the homework\_1.zip file.

Once you have forked https://gitlab.igg.uni-bonn.de/teaching/cpp-homeworks and cloned your own repository extract the homework\_1.zip archive into cpp-homework/homework\_1 folder:

```
$ git clone https://gitlab.igg.uni-bonn.de/<YOUR_USER_NAME>/cpp-homeworks
$ cd cpp-homeworks/homework_1
$ mv ~/Downloads/homework_1.zip . # or replace ~/Downloads with your path
$ unzip homework_1.zip && rm homework_1.zip
```

Once you successfuly extracted the files, your working directory should look like the following:

## A Using the terminal (4 points)

This exercise focuses on using the terminal efficiently.

Every question in this exercise must be answered with a command on a single line. You should save each of these lines into the file homework\_1/task\_1/commands.sh.

Make sure all commands run from within homework\_1/task\_1/ folder correctly.

- 1. (1 points) Count how many lines are there in "data.dat".
- 2. (1 points) Count how many lines of those contain "dolor" or "dalor"?
- 3. (1 points) Count how many words are there in "data.dat"?
- 4. (1 points) Count how many of those start with "mol"?

Hint: you might want to use wc command.

## B Build System (6 points)

All the documentation for this exercise is in the cpp-homeworks/homework\_1/task\_2/README.md file. You should cd into the task directory, open a text editor, and start working.

Basically the output of your exercise should be:

- 5. (2 points) A build script, build.sh, that allows to build the library and the example program within the exercise directory. So, basically leave this script on cpp-homeworks/homework\_1/task\_2/build.sh
- 6. (2 points) The same holds true for the installation script install.sh
- 7. (2 points) And the CMakeLists.txt files

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