

“Hello world!”

Install C++ compiler and make, so we can build and run C++ programs.

Install compiler and make

During the course “csd2b / C++” we need a compiler and linker to convert C++ code into executable programs. Furthermore, we will use the *make* utility to support the build process. We will start with the GNU C++ compiler (g++) and later on you can choose other build systems.

Linux

Open the terminal and type:

```
sudo apt install g++ make
```

If C++ and/or make were already installed, *apt* will just do nothing.

N.B: when using apt (or apt-get etc.) always look at the line that shows something like this:

```
0 upgraded, 0 newly installed, 0 to remove and 31 not upgraded
```

and make sure that the number for 'remove' is 0. If not, be very careful not to accidentally delete installed packages.

MacOS

Open the terminal and type:

```
xcode-select --install
```

After this either the installation process of the command line tools will be started or you will be notified that the command line tools are already installed.

Run your Hello World

Create, build and run a basic C++ program that only prints a piece of text (usually "Hello World!") to the console, a.k.a. the terminal.