Lesson 0

A very brief history of C++

- C++ was developed in 1979 in Bell Labs, New Jersey, by Bjarne Stroustrup.
- C++ is an enhancement to the C language and was originally called C with Classes.
- The named was changed to C++ in 1983.
- Almost any C program will work as a C++ program.

Bell Labs

- Bell Labs is an American research and scientific development company.
- Eight Nobel Prizes have been awarded for work completed at Bell Laboratories.
- Transistors were invented in Bell Labs of which there are many billions in your computer.
- The operating system Unix was invented here as well as the languages C and C++.

History of Programming Languages

- Ada Lovelace is credited with creating the first computer programming language in 1843.
- In 1939, in Bletchley Park, Alan Turing designed a machine to decipher German Enigma-machine-encrypted secret messages during World War II.
- Various programming languages were written over the years but the oldest languages still widely used today are Fortran(1957), Lisp(1958), and Cobol(1959).
- Currently the most popular languages are (in chronological order):
    - C(1972) used in system programming and computer game development
    - C++(1983) used in commercial application development and video games
    - Objective C(1983) used primarily by Apple
    - Java (1995) used for a wide range of applications and Android OS
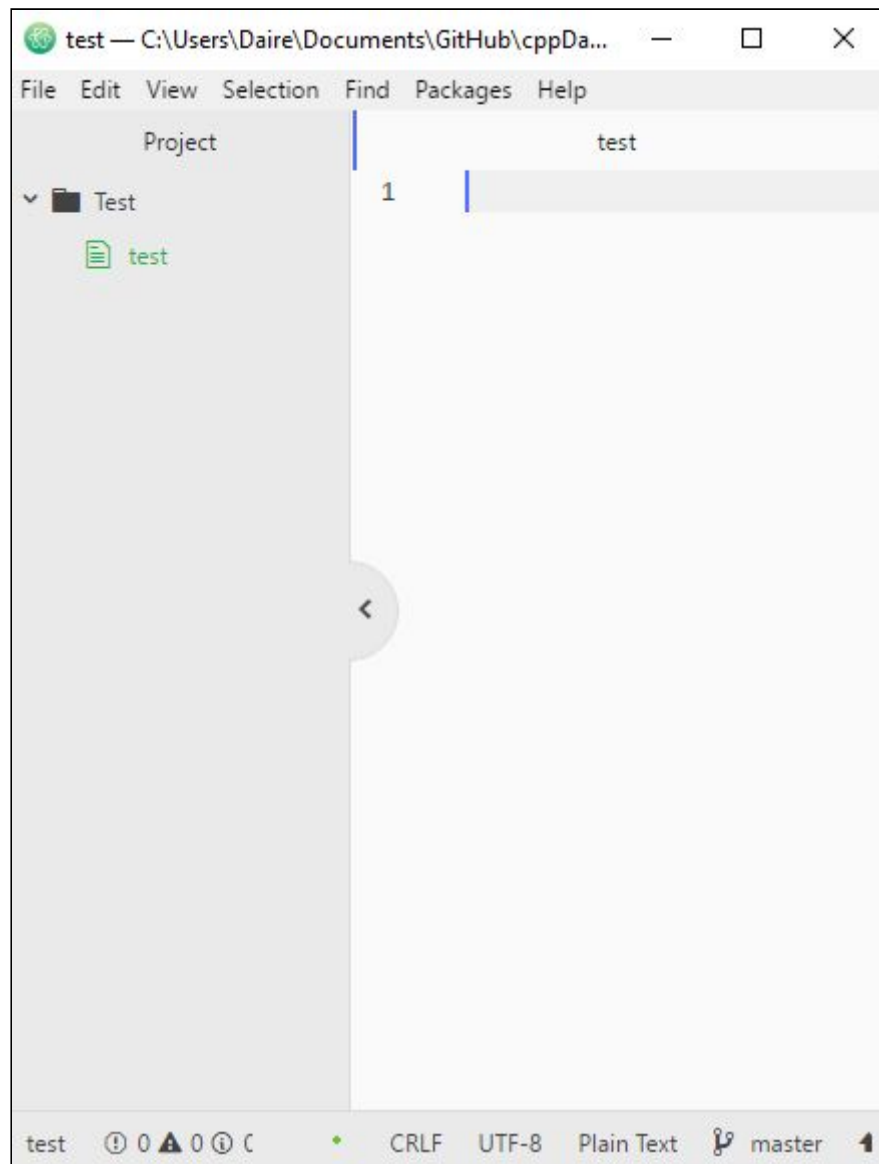   - C# (2000) used primarily by Microsoft

Atom

Atom is a text editor developed by Github. We will be using it to write our code today. The icon for the desktop app is to the right or you can search for it.

Open Atom and a blank page will appear (if any other tabs appear you can x out of them).

Save this page to an appropriate place with the extension .cpp. Once you have the file saved a pane will appear on the left of the editor.

Right clicking in this pane will bring up a list of options. Select "Open Terminal at Root". This will open the console in the directory your file is saved in.