

Getting started with C

- The book lists the **C Compiler** as **cc**, which is historically accurate
 - If you run the program `cc` in the COMP211 container, it is an alias of `gcc`
 - The `g` stands for GNU which is an acronym for GNU's Not Unix...
 - GNU is free, open-source software developed as a substitute for proprietary Unix

- For now, to compile examples from the book:

```
learncli$ gcc -g -Wall -std=c11 <filename>.c
```

What *are* those argument flags?

- `-g` - enables debugging symbols
 - `-Wall` - enables all compiler warnings
 - `-std=c11` - compile with the latest C standard expectations
- By default, and historically, this produces an executable binary named `a.out`
 - To *run* `a.out`, you have to prefix it with a `./`:

```
learncli$ ./a.out
```

- The *bash* shell's grammar allows you to conditionally run subsequent commands if the prior command exits successfully:

```
learncli$ <command> && <command>
```

To compile and then run:

```
learncli$ gcc -g -Wall -std=c11 <filename>.c && ./a.out
```

- Infinite loop? Program not responding? Interrupt execution with **Ctrl+C**