# Software - C++

Written by Mark Webster and ??

**SUMMARY DESCRIPTION**

Learn to write a simple C++ program to blink a light on an Arduino microcontroller.

## Introduction

C++ is a superset of C. It is a compiled language so it will run fast and with smaller amounts of memory.

## Language Basics

Comments

Variable declaration

Branching

Loops

Grouping code into objects

### Exercise 1: Hello World

In a text editor make a program to write “Hello World” to the terminal. Compile and execute

### Exercise 2: Pi Object

Create object which will write out the number of \* corresponding to the 1-10th digit of Pi

### Exercise 3: Blink on Arduino

Open Arduino IDE

Convert C++ Pi object to blink the number of times corresponding to the 1-10th digit of Pi.

Download to Arduino