

Hello world

We're going to upload our first piece of embedded software to our microcontroller.

Step 1 - Connect the microcontroller

Plug the board into the computer's USB port.

Step 2 - Open the "sketch" file containing the code

Open "Blink-hello_world.ino" from the Finder.



```
// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000); // wait for a second
  digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
  delay(1000); // wait for a second
}
```

```
void loop() {
  digitalWrite(LED_BUILTIN, HIGH);
  delay(1000);
  digitalWrite(LED_BUILTIN, LOW);
  delay(1000);
}
```

Step 3 - Edit the code (if you want).

Choose how long you'd like the light to be off and on for by changing the number in the lines: "delay(1000);" 1000 = 1000 milliseconds (1 second).

Step 4 - Upload the code to the microcontroller

Ensure the correct port is selected, then compile and upload your code to the microcontroller by pressing the right arrow icon at the top right of the code window.

