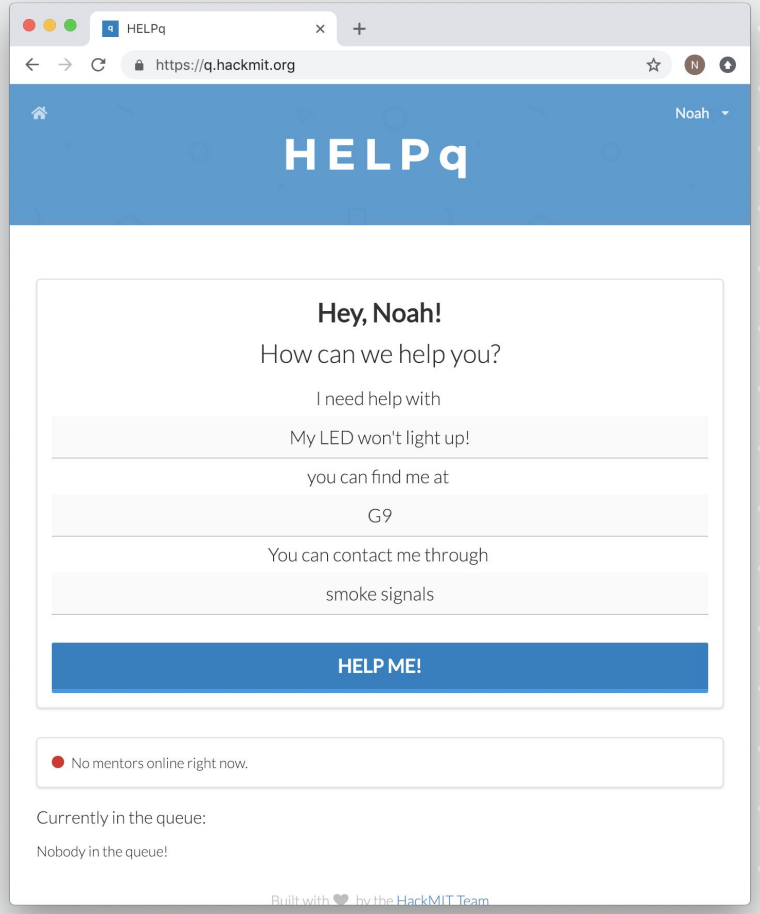
Arduino Track

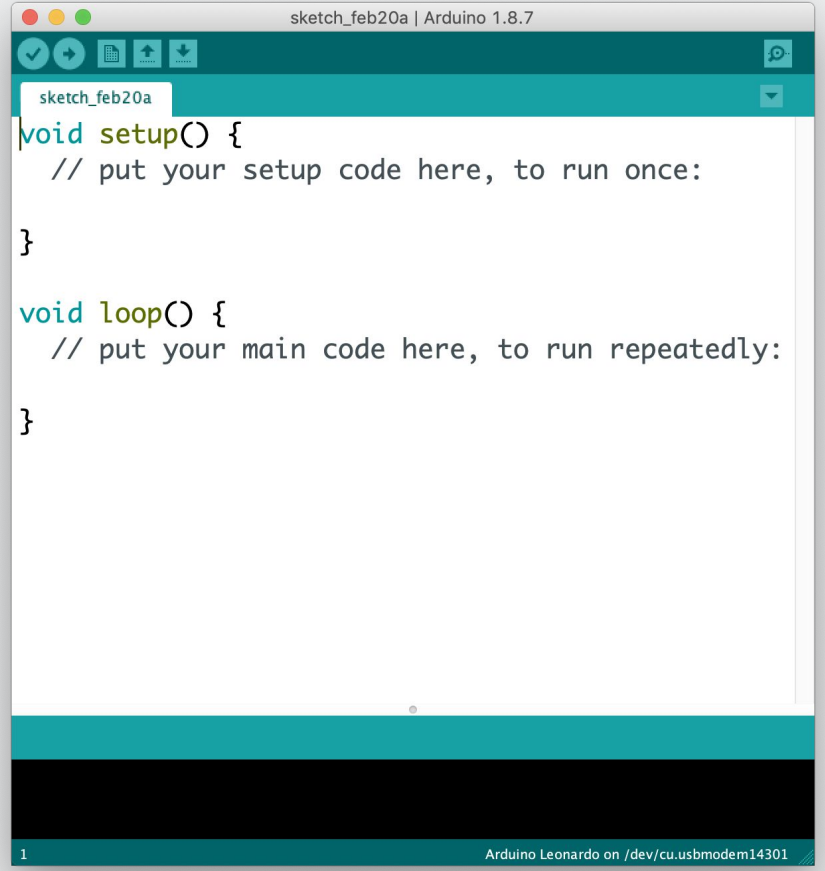
Sit toward the front, two to a kit!

How to get help

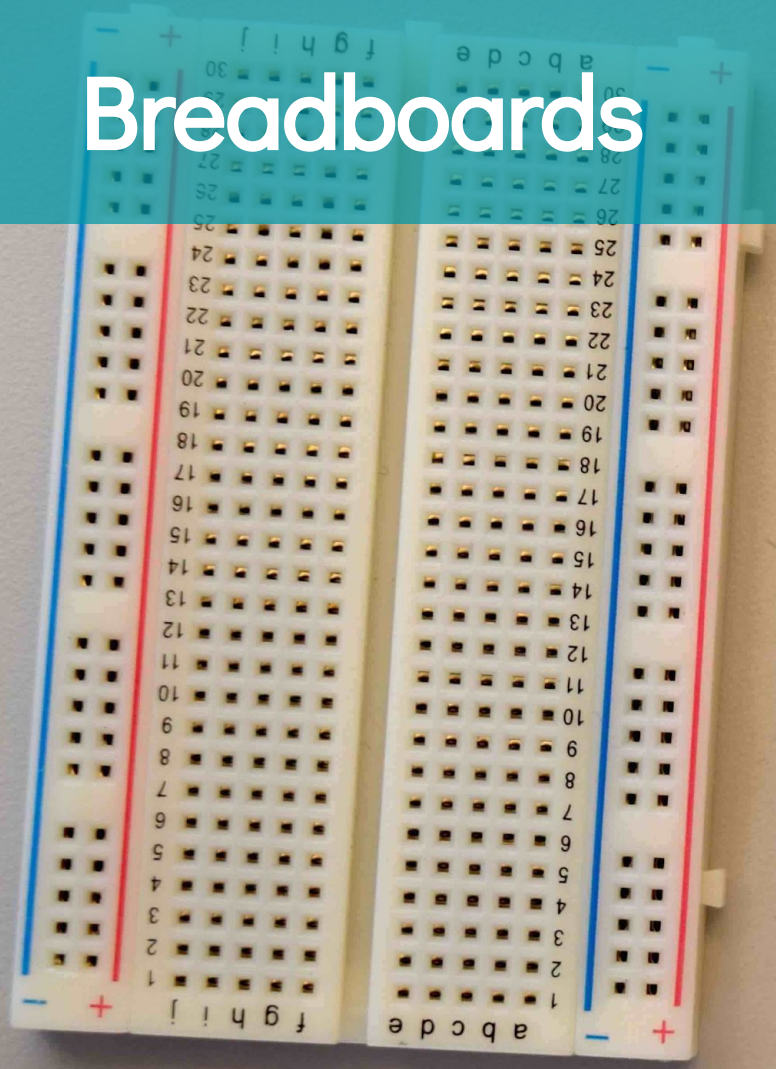
- ➔ Sign in with GitHub at q.hackmit.org
- ➔ Create an account at github.com if you don't have one



go.hackmit.org/arduino



Breadboards



Part 1 Over!

- ➔ Pack up hardware and take it with you
- ➔ See you back here at 1 pm!

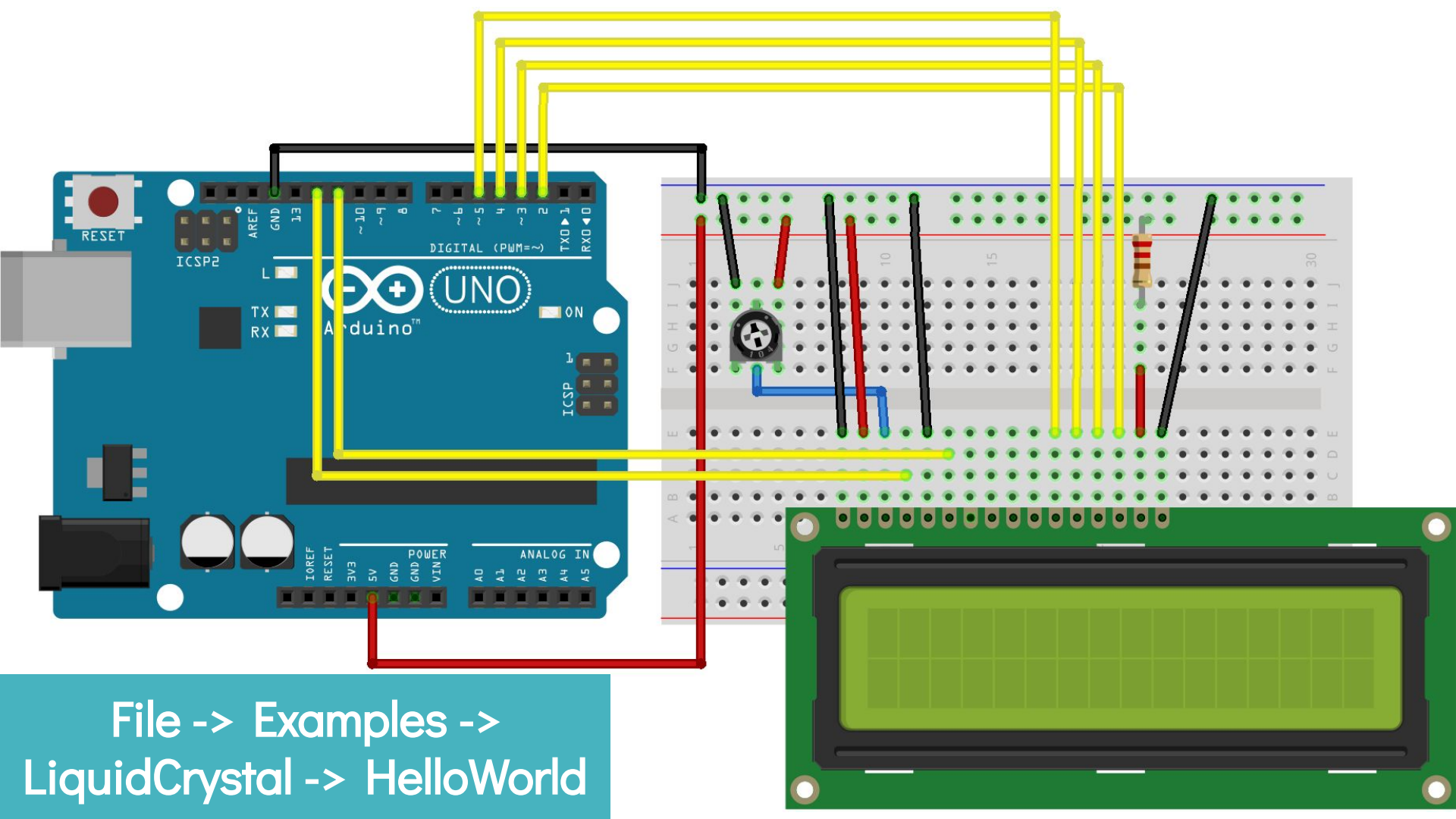
Arduino Track - Part 2

Return to your seat!

Part 2 Over!

➔ 10 minute break, then back to it

Arduino Track - Part 3



File -> Examples ->
LiquidCrystal -> HelloWorld

Part 3 Over!

- ➔ Last hour will be **free time** to work on whatever you want: start brainstorming!
- ➔ Some ideas:
  - Theremin (buzzer, photoresistor)
  - Bop-it game (buttons, potentiometer, tilt switch, etc)
  - Burglar alarm (ultrasonic sensor, buzzer, LEDs)

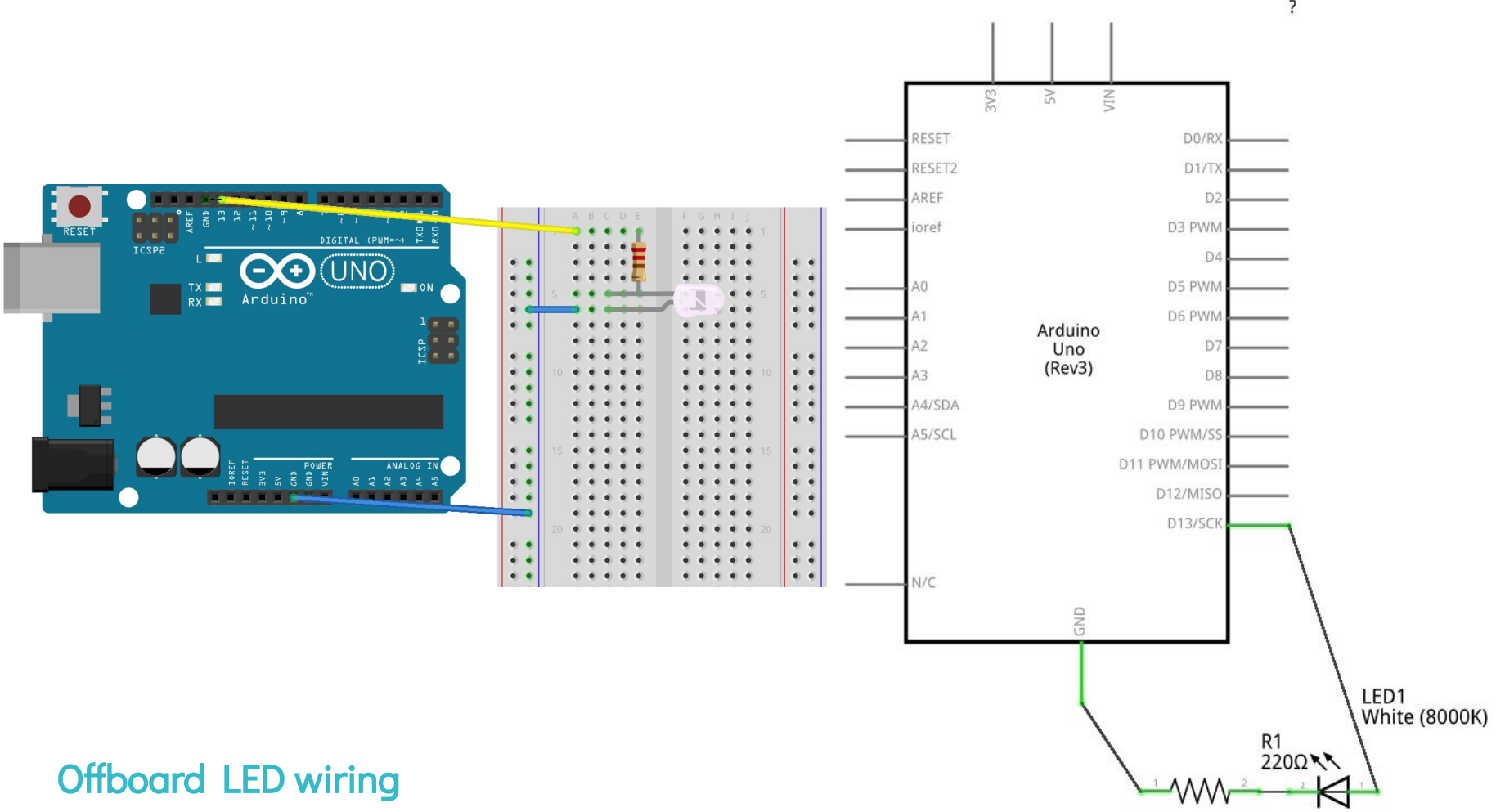
Arduino Track - Part 4

Work on your own project!

- ➔ Kit Guidebook (lots of projects):
  - go.hackmit.org/arduino-guide
  - go.hackmit.org/arduino-code
- ➔ Combine parts in creative ways:
  - Theremin (buzzer, photoresistor)
  - Bop-it game (buttons, potentiometer, tilt switch, etc)
  - Burglar alarm (ultrasonic sensor, buzzer, LEDs)
- ➔ Arduino Reference: https://www.arduino.cc/reference/en/
- ➔ Don't be afraid to talk to mentors and each other 😊

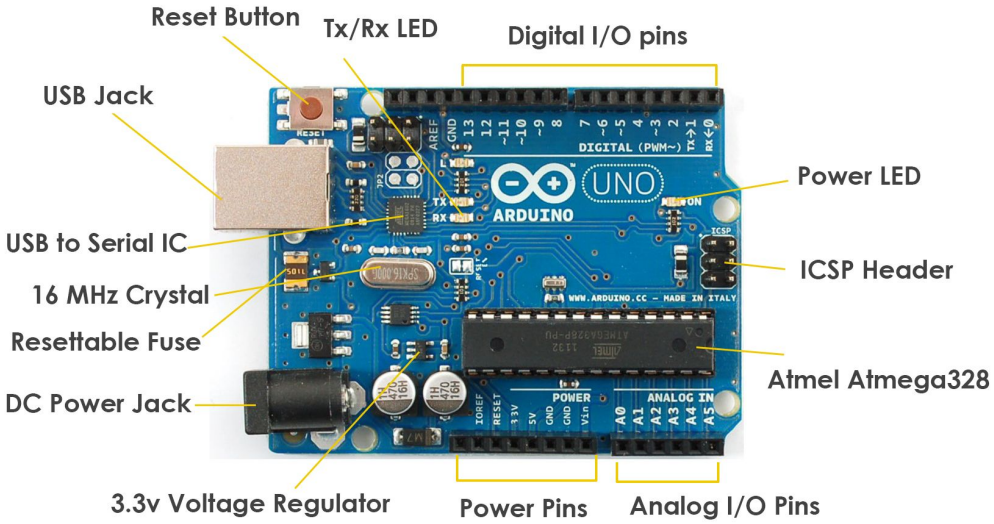
fin.

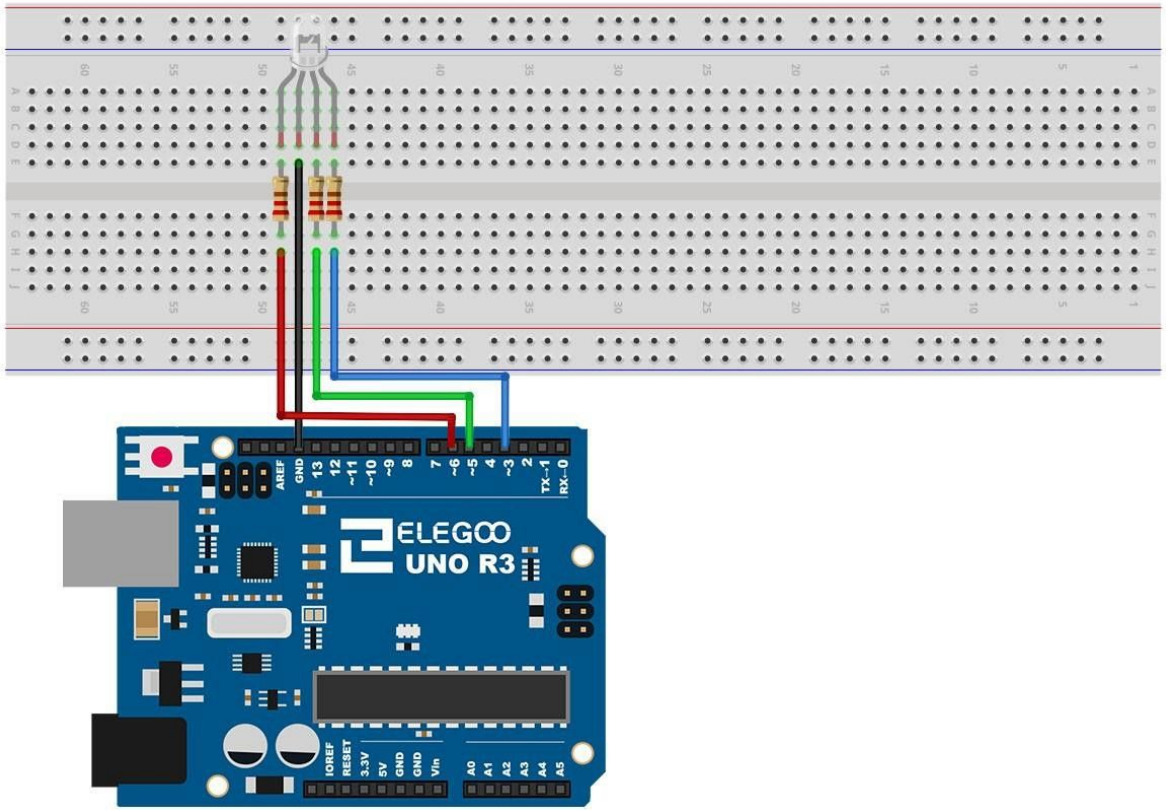
- ➔ Take pictures/videos of your creation, and go ahead and disassemble it
- ➔ Head over to closing talk in 32-123
- ➔ If you're coming to the hackathon, we'll see you tomorrow!



Offboard LED wiring

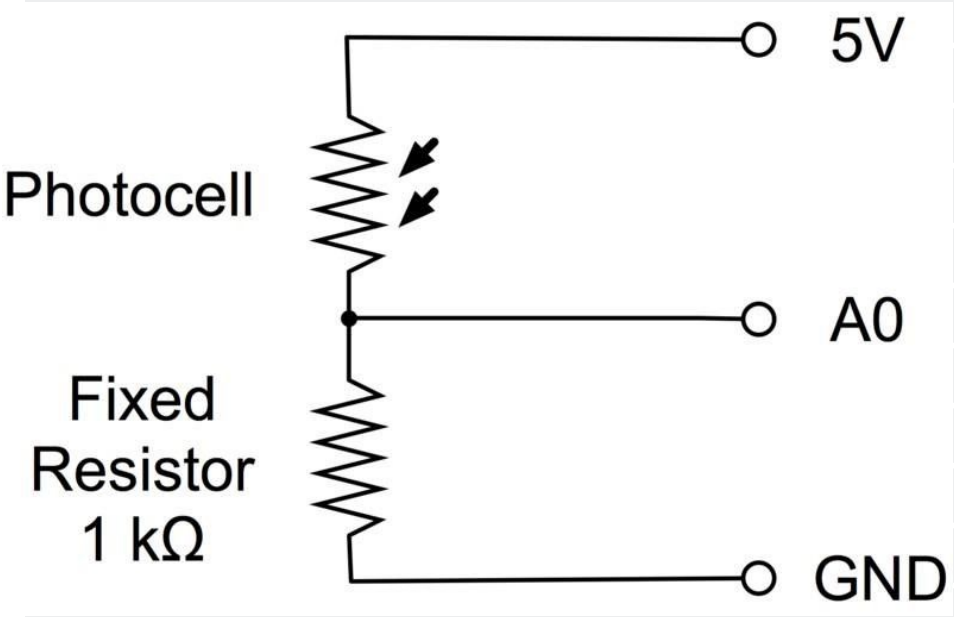
Arduino Board Layout



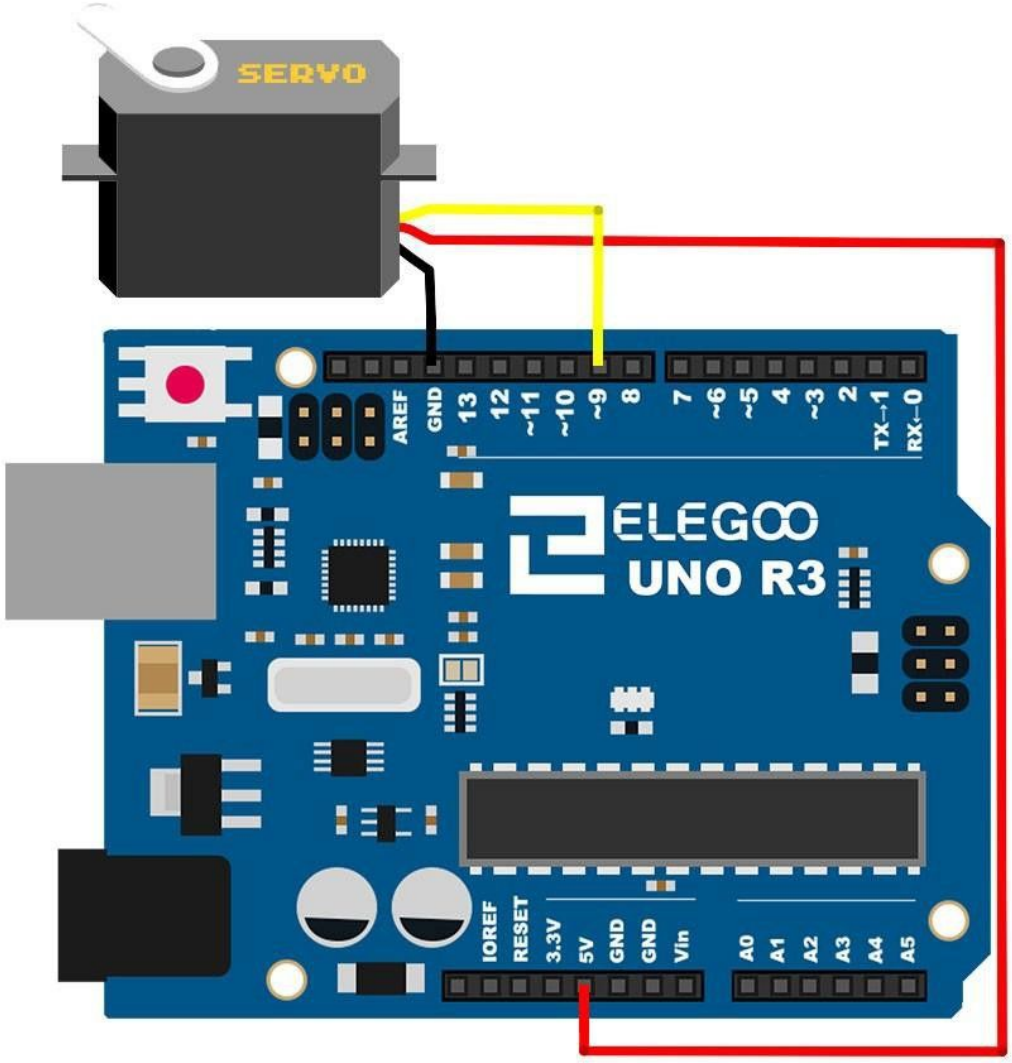


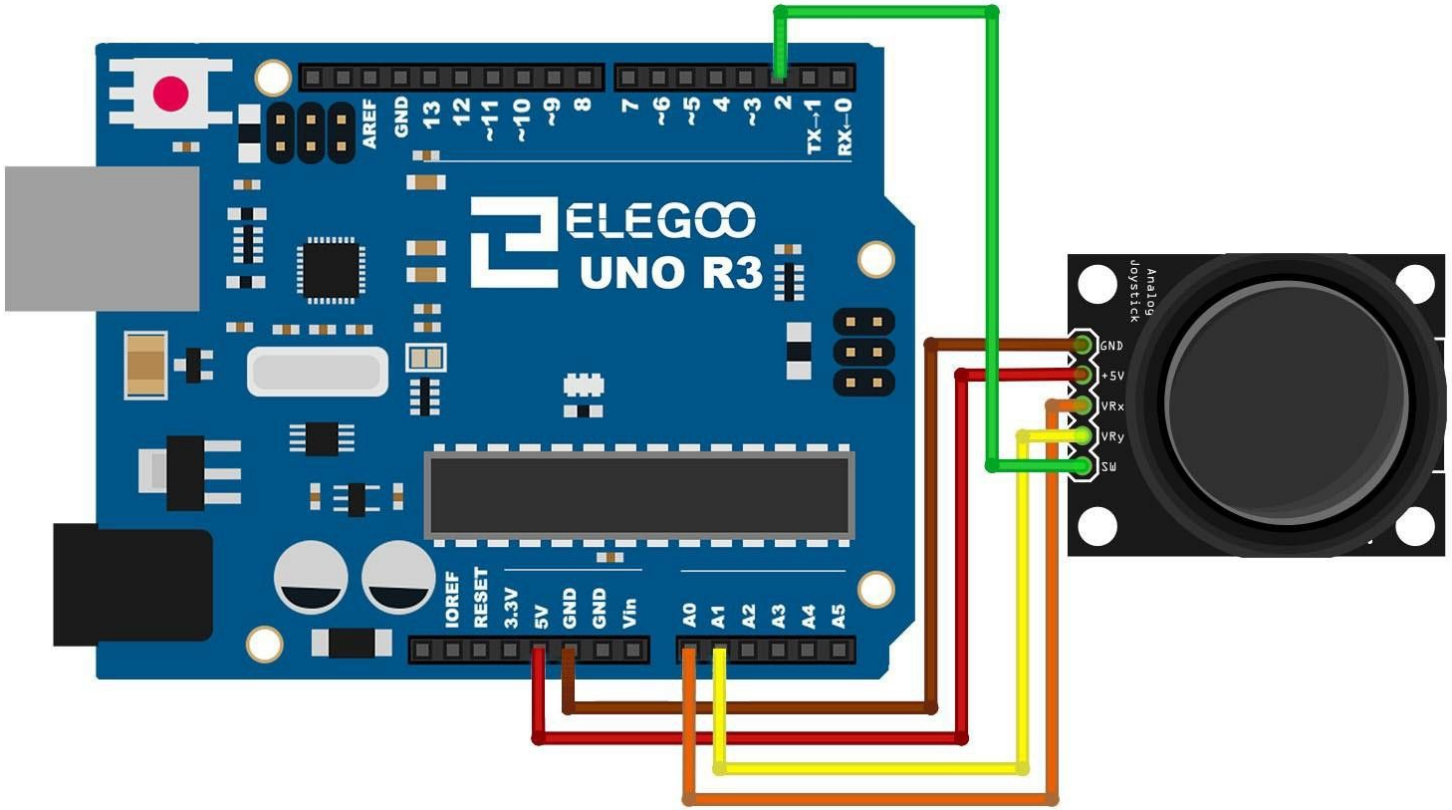
Try to get the RGB LED working if you finish!

Photoresistor wiring



Servo wiring





Full joystick wiring

LCD wiring