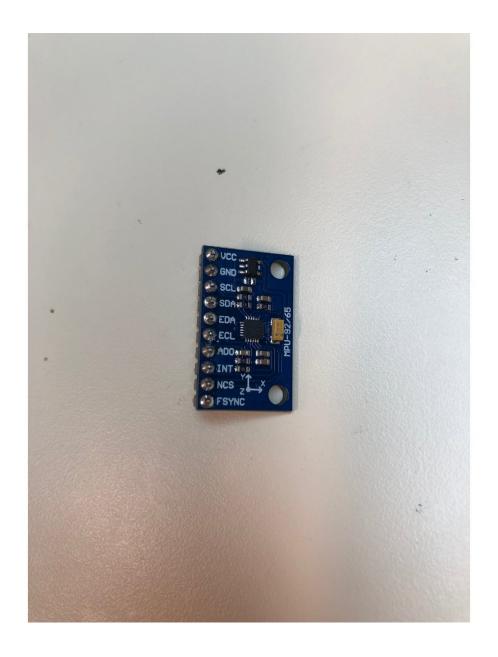
brandeismakerlab

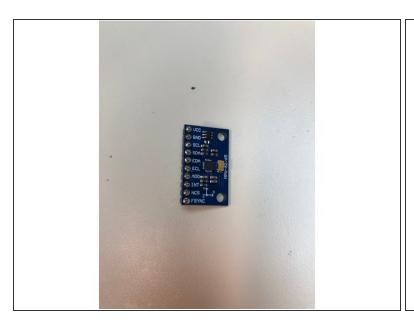
Veni Vidi Vici with the Accelerometer/Gyroscope/Thermometer

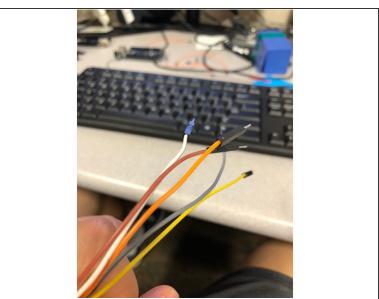
This wise and extensive guide will aid you in the use of a super-Arduino-sensor that outputs acceleration and position in the x,y,z/ and temperature in C.

Written By: Aiden Kunkler-Peck



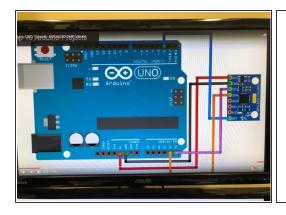
Step 1 — Veni

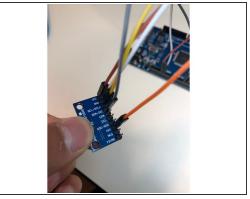


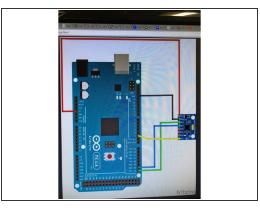


 Acquire the needed Arduino ,MPU6050 (or a variation of this model), and prepare yourself for an adrenaline-fueled coding experience. You will also need 5 male to female jumper wires, a usb to Arduino cord, and an Arduino Uno or Mega.

Step 2 — Vidi (Part 1)

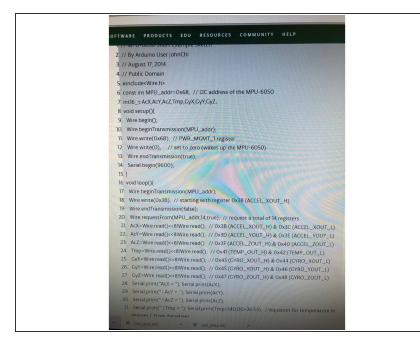






- Wire the super Arduino (MPU6050) to your Mega or Uno using the 5 jumper wires.
- If you're using a mega the wiring is slightly different.
- Both Arduino wiring formats are shown in the pictures.

Step 3 — Vidi (Part 2)

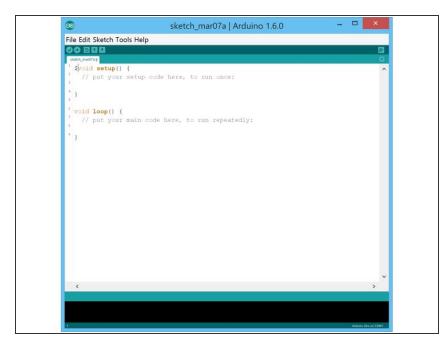


 Click this link and look at the sample code:
https://playground.arduino.cc/Main/M

PU-6...

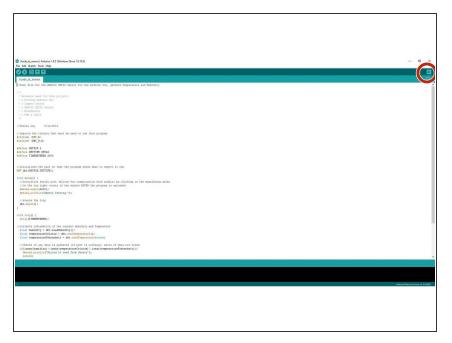
- The code before the "void setup" establishes a connection between the Arduino and Mega, which allows for the values outputted by the Arduino to be received.
- The code within the setup begins the transmission of information from the Arduino to the Mega. Wire. is used to "talk" to the Arduino.
- The "void loop" segment of code is a continuous cycle that has the Aruino read the 7 values it is meant to and then spits out those numbers to the Serial Monitor. Serial.print("blah blah blah") just prints whatever is in quotations.

Step 4 — Vidi (Part 3)



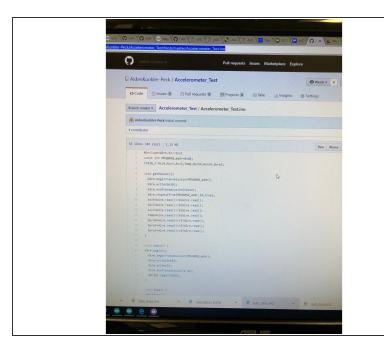
- Now it's your turn to try some coding!
- Follow this link to download Arduino if it is not already on your compuer: https://www.arduino.cc/en/Main/Software
- Once downloaded, open the application and continue to the next step.

Step 5 — Vidi (Part 4)



 Click the serial monitor button to view the data.

Step 6 — VICI!!



- Get some of the source code from the previous link and get started with testing out the part.
- Here is a link to some working code for the Arduino: https://github.com/AidenKunkler-Peck/Acc...
- Congrats! You just coded an Arduino!