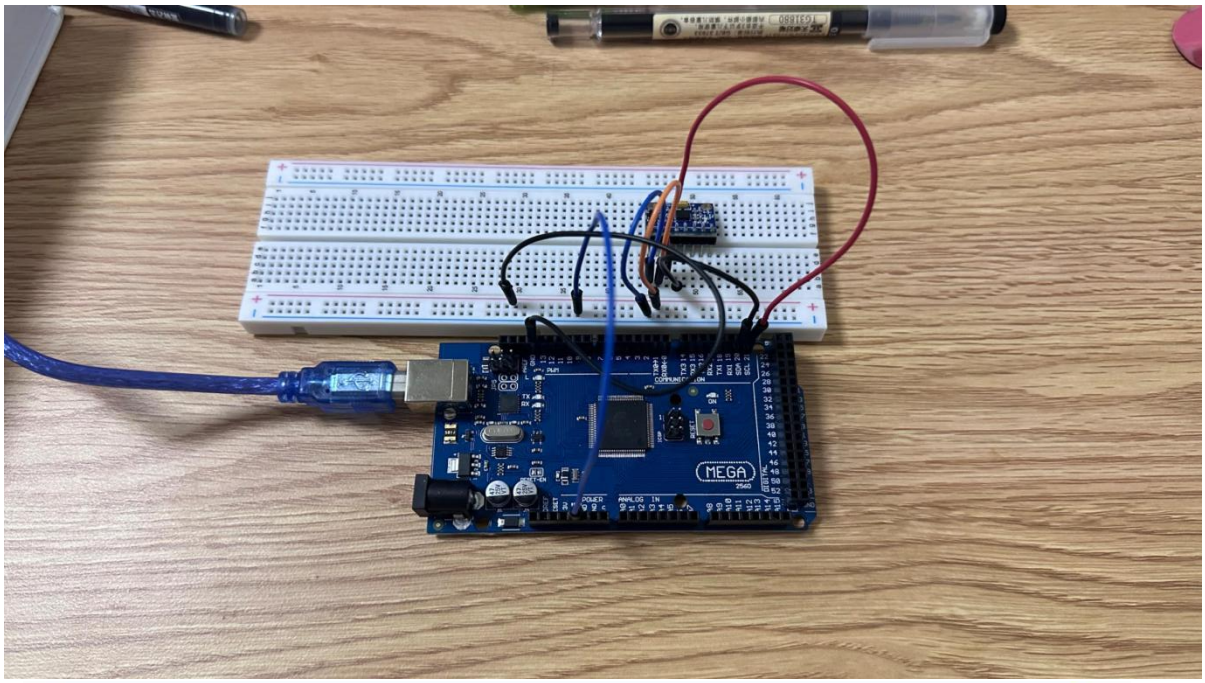
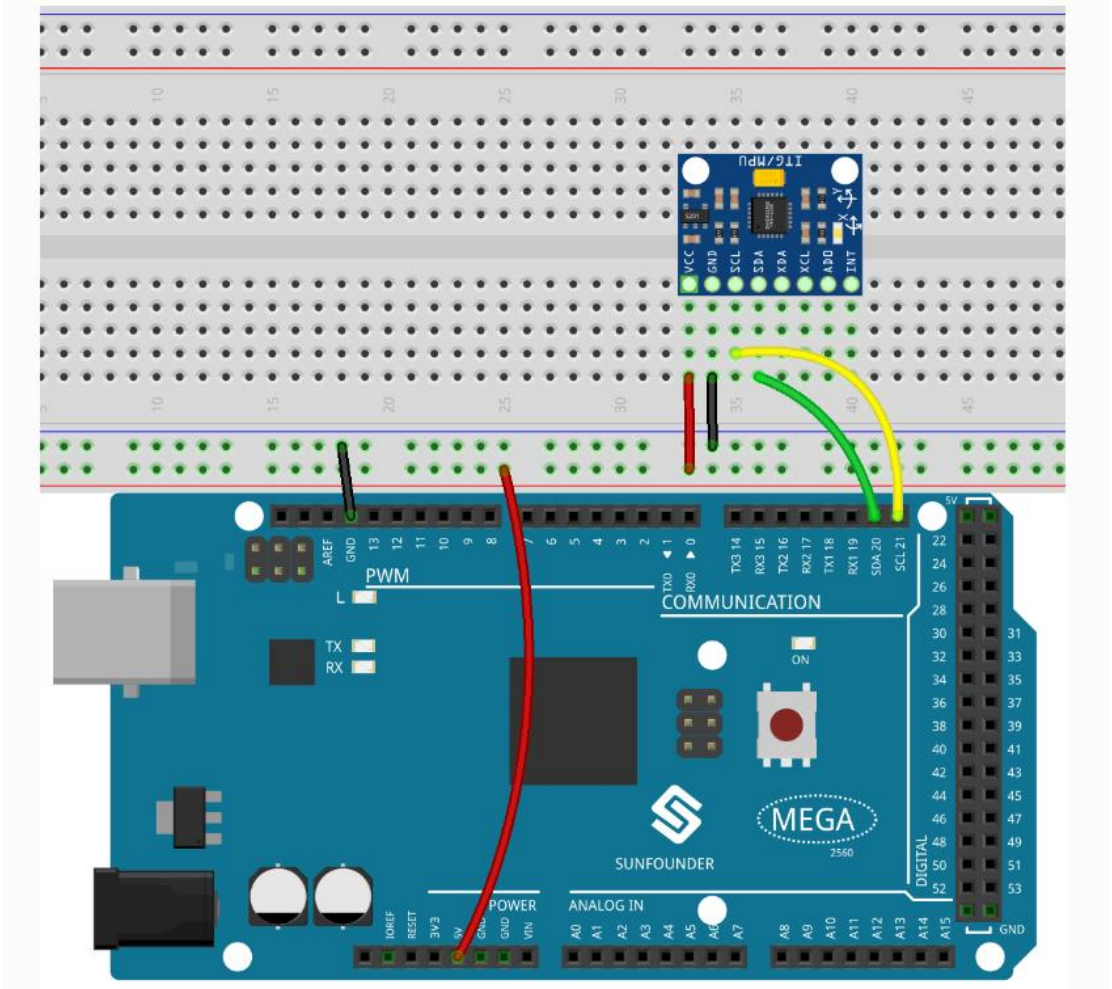
MPU6050 MODULE

Connect the sensor to Arduino:





Sensitivity；

Fix the MPU6050 and the phone together, noting that the x, y, and z axes of the two need to be in the same direction, flat and horizontally fixed to increase accuracy. Accelerate the movement of the system (horizontal or rotational motion), record the data displayed by the Arduino for the corresponding time, and compare it with the actual data displayed on the phone to calculate the sensitivity.

Resolution:

Accuracy:

As mentioned above, the mobile phone and MPU6050 are fixed together, and the measurement value of the sensor is compared with the measurement value of the mobile phone, although there is no guarantee that the value of the mobile phone is the actual value, but the measurement value of the mobile phone is definitely more accurate than the MPU6050. Evaluate the error range of the sensor in the form of percentages.

Drift:

The mobile phone and the MPU6050 are fixed, and the output value of the sensor at different times is recorded while other conditions remain unchanged, so as to obtain drift.