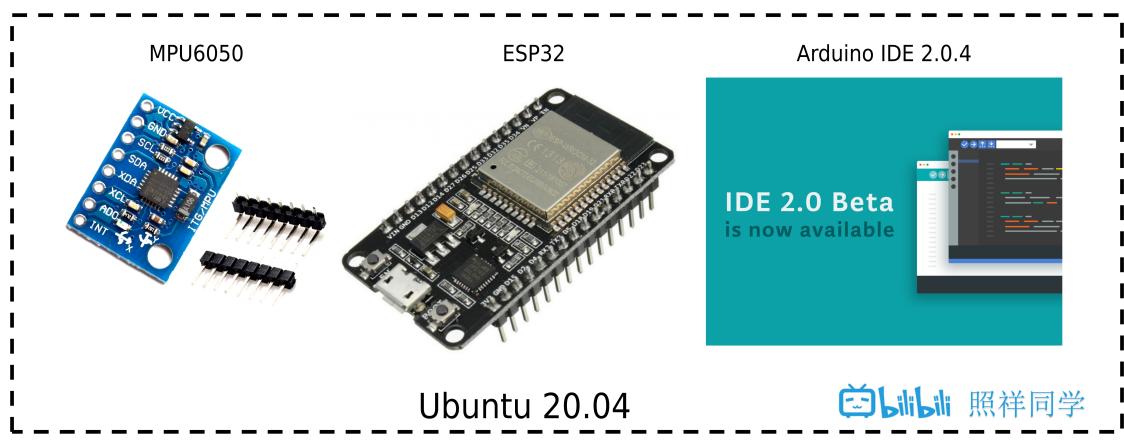


Chapter 5 ESP32_MPU6050_Module



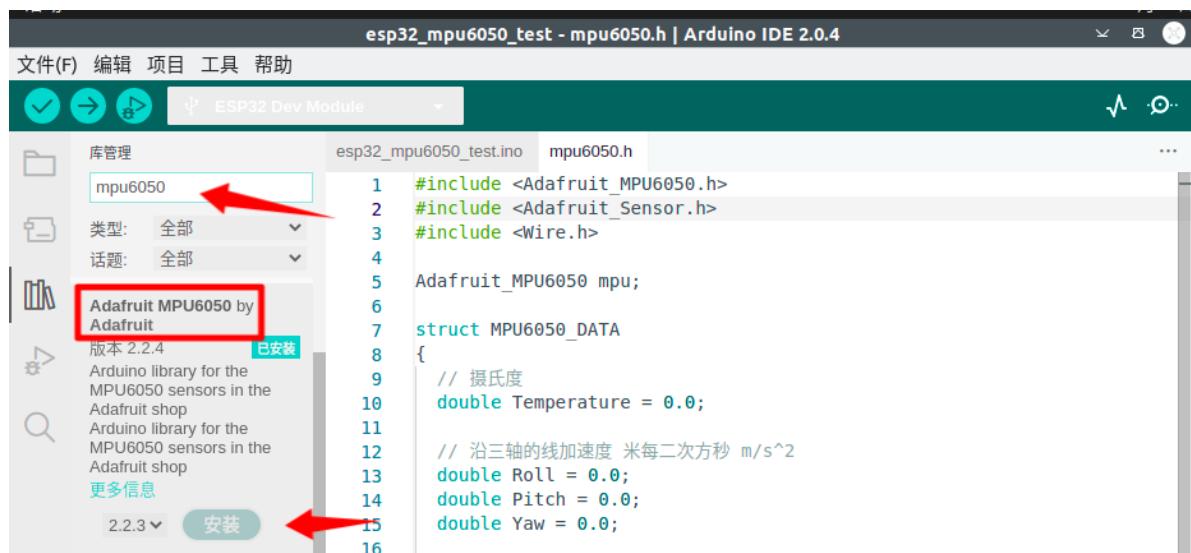
bilibili 照祥同学

05-ESP32_MPU6050_Module

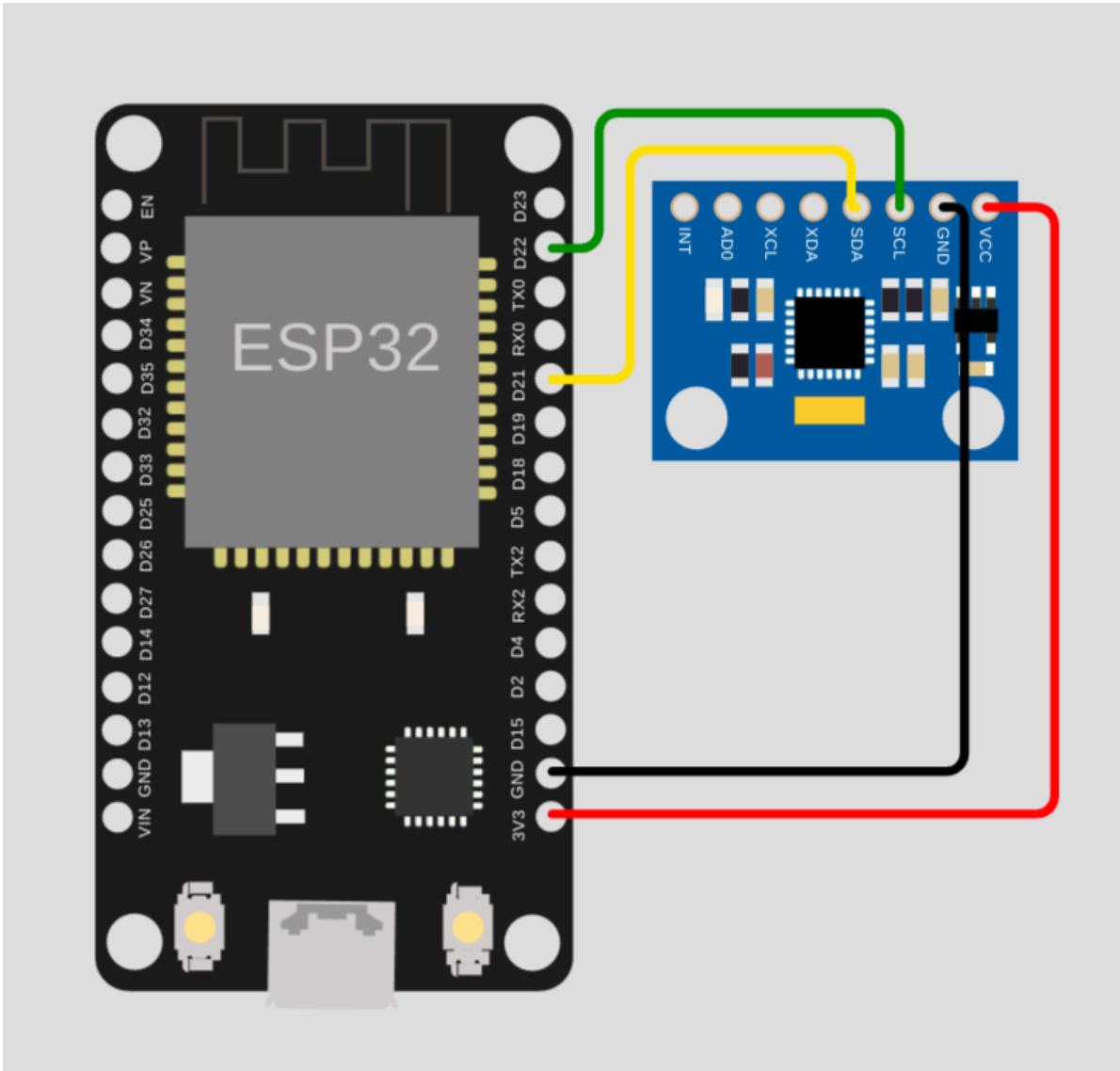
URL: https://github.com/ZhaoXiangBox/esp32_ros2_robot

Videos from Bilibili 照祥同学:

First : Install Adafruit_mpu6050 library



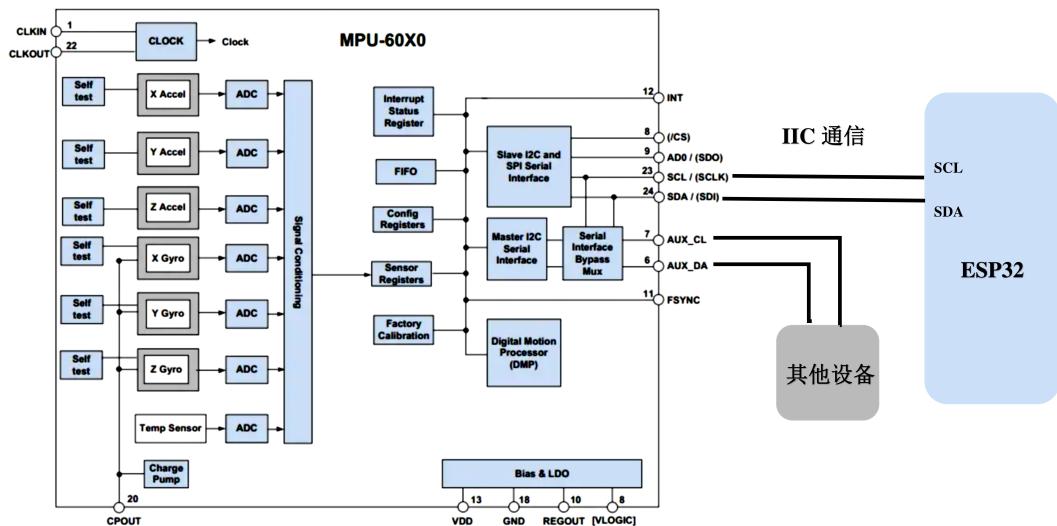
Second : Connect MPU6050 Module with ESP32



接线说明:

MPU6050 正极 + (红色)	<----->	ESP32_Vin (3.3V)
MPU6050 负极 - (黑色)	<----->	ESP32_Gnd (0V)
数据引脚 SCL (绿色)	<----->	ESP32_GPIO22 (Output)
数据引脚 SDA (黄色)	<----->	ESP32_GPIO21 (Input)

·MPU6050 IIC 通讯示意图



·ROS Imu Msg

```

std_msgs/Header header
uint32 seq
time stamp // 时间戳
string frame_id
geometry_msgs/Quaternion orientation // 姿态
float64 x
float64 y
float64 z
float64 w
float64[9] orientation_covariance // 姿态协方差
geometry_msgs/Vector3 angular_velocity // 角速度
float64 x
float64 y
float64 z
float64 angular_velocity_covariance // 角速度协方差
geometry_msgs/Vector3 linear_acceleration // 线加速度
float64 x
float64 y
float64 z
float64[9] linear_acceleration_covariance // 线加速度协方差

```

