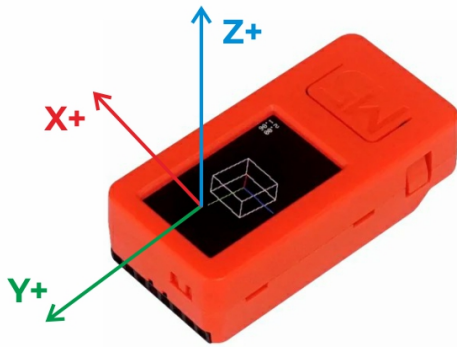


StickC-Plus IMU

| Example

```
1  #include <M5StickCPlus.h>
2
3  float accX = 0.0F;
4  float accY = 0.0F;
5  float accZ = 0.0F;
6
7  float gyroX = 0.0F;
8  float gyroY = 0.0F;
9  float gyroZ = 0.0F;
10
11 float pitch = 0.0F;
12 float roll  = 0.0F;
13 float yaw   = 0.0F;
14
15 void setup() {
16     M5.begin();           // Init M5StickC Plus
17     M5.Imu.Init();        // Init IMU
18     M5.Lcd.setRotation(3); // Rotate the screen
19     M5.Lcd.fillScreen(BLACK);
20     M5.Lcd.setTextSize(1);
21     M5.Lcd.setCursor(80, 15); // Set the cursor location
22     M5.Lcd.println("IMU TEST");
23     M5.Lcd.setCursor(30, 30);
24     M5.Lcd.println("  X      Y      Z");
25     M5.Lcd.setCursor(30, 70);
26     M5.Lcd.println("  Pitch  Roll   Yaw");
27 }
28
29
30 void loop() {
31     static float temp = 0;
32     M5.IMU.getGyroData(&gyroX, &gyroY, &gyroZ);
33     M5.IMU.getAccelData(&accX, &accY, &accZ);
34     M5.IMU.getAhrsData(&pitch, &roll, &yaw);
35     M5.IMU.getTempData(&temp);
36     M5.Lcd.setCursor(30, 40);
37     M5.Lcd.printf("%6.2f %6.2f %6.2f      ", gyroX, gyroY, gyroZ);
38     M5.Lcd.setCursor(170, 40);
39     M5.Lcd.print("o/s");
40     M5.Lcd.setCursor(30, 50);
41     M5.Lcd.printf(" %5.2f %5.2f %5.2f  ", accX, accY, accZ);
42     M5.Lcd.setCursor(170, 50);
43     M5.Lcd.print("G");
44     M5.Lcd.setCursor(30, 80);
45     M5.Lcd.printf(" %5.2f %5.2f %5.2f  ", pitch, roll, yaw);
46
47     M5.Lcd.setCursor(30, 95);
48     M5.Lcd.printf("Temperature : %.2f C", temp);
49     delay(100);
50 }
```

IMU Triaxial Direction Schematic Diagram



IMU ORIENTATION OF AXES