

StackChan Output Image

Example program for StackChan to output image files from the microSD card.

| Build Requirements

- M5Stack board manager version $\geq 3.2.2$
- Board option = M5CoreS3
- M5Unified library version $\geq 0.2.8$
- M5GFX library version $\geq 0.2.11$

```
1  #include <Arduino.h>
2  #include <SPI.h>
3  #include <SD.h>
4  #include <M5Unified.h>
5  #include <M5GFX.h>
6
7  #define SD_SPI_CS_PIN 4
8  #define SD_SPI_SCK_PIN 36
9  #define SD_SPI_MISO_PIN 35
10 #define SD_SPI_MOSI_PIN 37
11
12 void setup() {
13     M5.begin();
14
15     M5.Display.setTextFont(&fonts::Orbitron_Light_24);
16     M5.Display.setTextSize(1);
17
18     // SD Card Initialization
19     SPI.begin(SD_SPI_SCK_PIN, SD_SPI_MISO_PIN, SD_SPI_MOSI_PIN, SD_SPI_CS_PIN);
20     if (!SD.begin(SD_SPI_CS_PIN, SPI, 25000000)) {
21         // Print a message if SD card initialization failed or if the SD card does not exist.
22         M5.Display.print("\n SD card not detected\n");
23         while (1)
24             ;
25     } else {
26         M5.Display.print("\n SD card detected\n");
27     }
28     delay(1000);
29
30     // Write TXT file
31     M5.Display.print("\n SD card write test...\n");
32     auto file = SD.open("/WriteTest.txt", FILE_WRITE, true);
33     if (file) {
34         file.print("Hello, world! \nSD card write success! \n");
35         file.close();
36         M5.Display.print(" SD card write success\n");
37     } else {
38         M5.Display.print(" Failed to create TXT file\n");
39     }
40     delay(1000);
41
42     M5.Display.print("\n SD card read test...\n");
43     if (SD.open("/TestPicture01.png", FILE_READ, false)) {
44         M5.Display.print(" PNG file 01 detected\n");
45     } else {
46         M5.Display.print(" PNG file 01 not detected\n");
47     }
48     if (SD.open("/TestPicture02.png", FILE_READ, false)) {
49         M5.Display.print(" PNG file 02 detected\n");
50     } else {
```

```
51     M5.Display.print(" PNG file 02 not detected\n");
52 }
53 }
54
55 void loop() {
56     // Read PNG file and draw picture
57     M5.Display.drawPngFile(SD, "/TestPicture01.png");
58     delay(1000);
59     M5.Display.drawPngFile(SD, "/TestPicture02.png");
60     delay(1000);
61 }
```