Bonezegei SSD1306: Arduino Library for 128x64 OLED Display

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Abstract

Bonezegei SSD1306 is an Arduino library that allows users to easily interface with 128x64 OLED displays. The library provides functions for drawing text and some basic shapes. The library supports both I2C communication protocol, and is compatible with various Arduino boards and shields. Bonezegei SSD1306 aims to offer a simple and efficient way to create interactive and dynamic user interfaces for microcontroller based projects. Follow the installation steps at https://bonezegei.com on how to install bonezegei libraries on Arduino IDE (Batutay, 2023).

Disclaimer

1. Hello World

```
/*
  OLED TextHelloWorld
  Author: Bonezegei (Jofel Batutay)
  Date: August 2023
*/

//TextHelloWorld
#include <Bonezegei_SSD1306.h>
Bonezegei_SSD1306 oled(128, 64);

void setup() {
  oled.begin();
  oled.clear();
  oled.drawText(10, 0, "Hello World" , 1, arial_8ptBitmaps, arial_8ptDescriptors);
  oled.draw();  //update the screen
}

void loop() {
  String s = "milis:" ;
  s += millis();

  oled.drawFilledRectangle(0, 20, 127, 30, 0);
  oled.drawText(0, 20, s.c_str(), 1, arial_8ptBitmaps, arial_8ptDescriptors);
  oled.draw();  //update the screen
  delay(100);
}
```

2. Rectangle

```
/*
  OLED Rectangle 128x64 SSD1306 OLED
  Author: Bonezegei (Jofel Batutay)
  Date: August 2023
*/

#include <Bonezegei_SSD1306.h>
Bonezegei_SSD1306 oled(128,64);

void setup() {

  oled.begin();
  oled.clear();

  oled.drawFilledRectangle(20,2,100,15);
  oled.drawFilledRectangle(20,20,100,32);
  oled.draw(); //update the screen
}

void loop() {
}
```

References

Batutay, Jofel. (2023). Library Installation on Arduino IDE. Bonezegei.
https://bonezegei.com/?c=resources/tutorial&&d=resources/tutorial/libraries/install&&nav=1

Website : https://bonezegei.com
Repository URL: https://github.com/bonezegei/Bonezegei_SSD1306

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