M5Stack Tab5 and LVGL

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The Platform IO Project

The Platform IO project is located here:

https://github.com/CrazyUncleBurton/M5Stack-Tab5-LVGL

See the document "VS Code with Source Control.pdf" located in the same directory as this document.

Testing

1. Connect a USB cable from the computer that VS Code is running on to the M5Stack microcontroller.
2. If the microcontroller is not on, press the white button on the side once to turn it on.
3. In VS Code, click the PlatformIO Upload icon ➡ in the bottom toolbar. The hover text will be PlatformIO: Upload.
4. The project will compile. When it's ready to upload, we see lines like "Connecting…" and "Writing…". Wait for the line that says SUCCESS in green text before proceeding.
5. When finished, the microcontroller will reboot.
6. When the microcontroller reboots, watch the display. You should see a touch-controlled slider, a touch-controlled arc slider, and a touch button. Pressing the button increases the other sliders by 10. Sliding one slider makes the other move.

Reference

Tab5 Microcontroller Info: https://docs.m5stack.com/en/core/Tab5

LVGL Docs: https://docs.lvgl.io/master