Under 2\$ Arduino Mini Monster...

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Yesterday assembled this Development Environment,

You only need the Serial-to-USB adapter for programming.

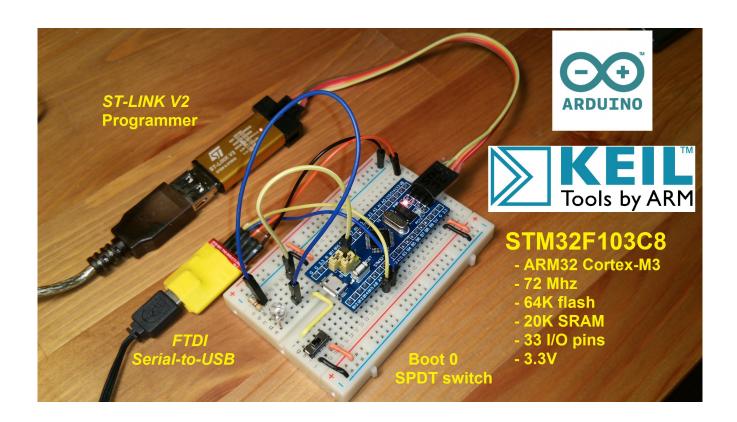
I am using the ST-Link programmer and the Serial USB port for debugging using a Serial terminal like **Tera Term VT** or **PuTTY**...

You can use the Arduino IDE or for a more professional results you can use the free version of **KEIL uVision**...

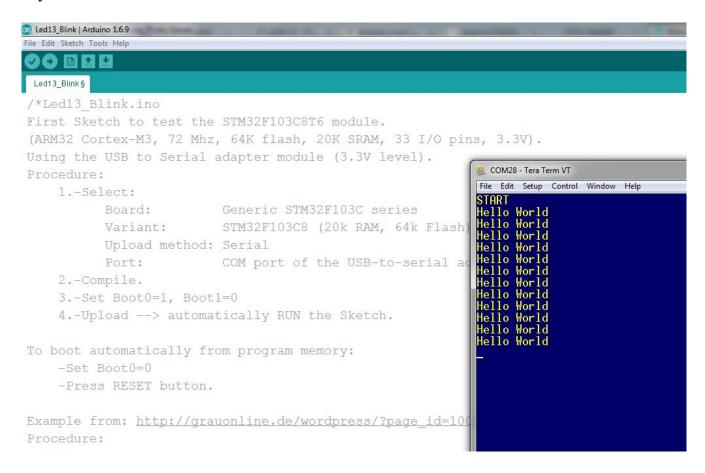
Added an SPDT switch to avoid moving the Boot0 Jumper.

Reset with Boot0=1 to run the Bootloader. (programming)

Reset with Boot0=0 for normal use.



My first Skecth:



STM32F103C8T6 ARM STM32 Minimum System Development Board Module For Arduino.

Free Shipping STM32F103C8T6 ARM STM32 Minimum System Development Board Module For Arduino.

US \$1.76 (Aliexpress)

https://www.aliexpress.com/item/Free-Shipping-STM32F103C8T6-ARM-STM32-Minimum-System-Development-Board-Module-For-arduino/32555258029.html?spm=2114.13010608.0.0.JB95Ub

Microcontroller Model: STM32F103C8T6.

ARM 32 Cortex-M3 CPU. (32 bits CPU instead 8 bits Arduino UNO)

72MHz work frequency. (4.5 times Arduino UNO) 64K flash memory (twice Arduino UNO) 20K SRAM (ten times Arduino UNO)

Powerfull instructions like Single-Cycle multiplication and division...

You will also need a Serial-to-USB adapter or a ST-Link V2 Programmer (\$ 2.60 Free Shipping, Aliexpress)

https://www.aliexpress.com/item/ST-Link-V2-Programming-Unit-mini-STM8-STM32-Emulator-Downloader-M89-New/32631496848.html?

spm=2114.01010208.3.2.YFWMm9&ws_ab_test=searchweb0_0,searchweb201602_1_116_10065_117_10068_114_115_113_10000009_10084_10083_10080_10082_10081_10060_10062_10056_10055_1_0037_10054_10033_10059_10032_10099_10078_10079_10077_426_10103_10073_10102_10096_10_052_10053_10107_10050_10106_10051-

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Let's see what can be done whit it...