

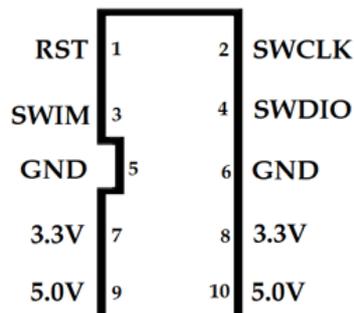
## ST-LINK V2 (STM8 & STM32 PROGRAMMER)



### DESCRIPTION

ST-Link-Compatible Programmer & Emulator / Debugging dongle. This little USB stick contains a microcontroller with the code for ST's classic programmer/emulator for STM8 and STM32 bit processors. Since STM's are so common, this tool will come in handy whenever you encounter them. This programmer also got 5V and regulated 3.3V power supply mode. Comes with one USB stick and a couple pieces of female-female jumpers. Tested & work great with Arduino IDE & STM32 ST-LINK Utility software.

### Pinout Diagram



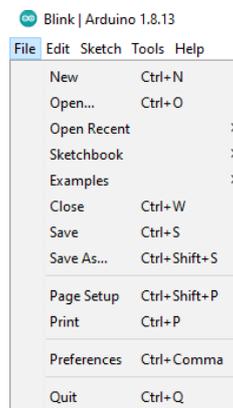
## Programming STM32 (STM32F103C8T6) using ST-LINK V2

### A. Preparation

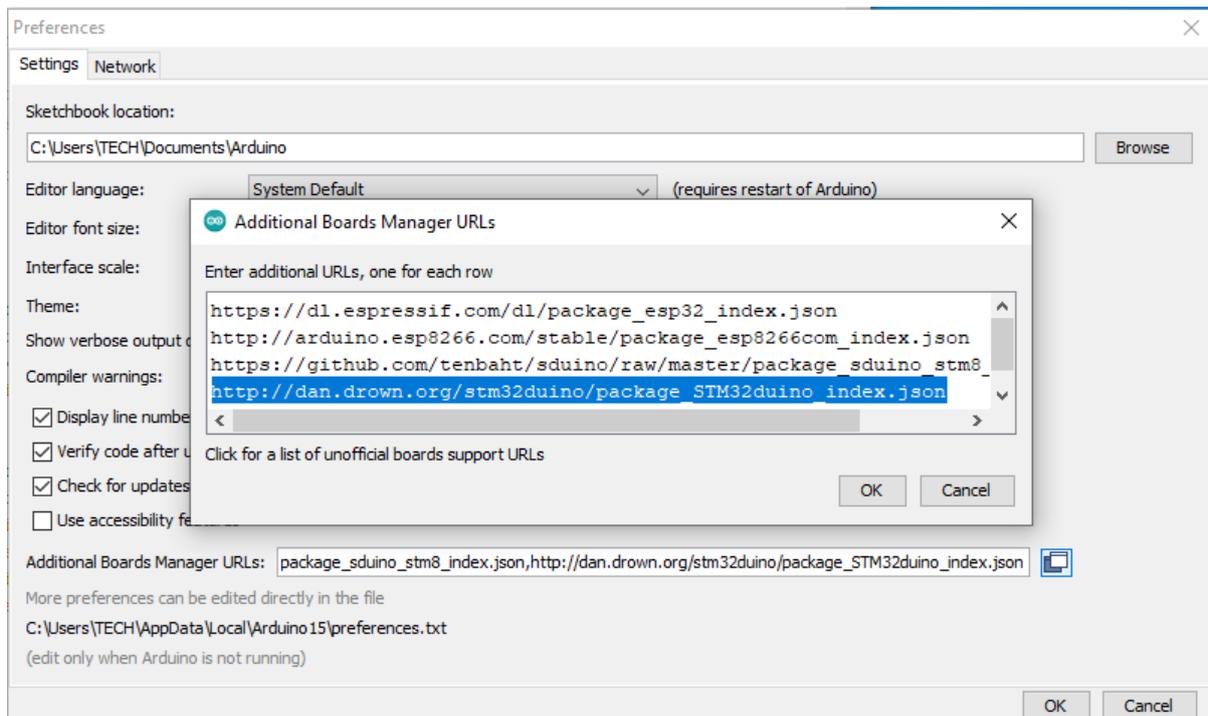
1. ST-LINK V2
2. STM board (STM32 / STM8 Series Compatible)
3. Jumper Wire (Female to Female)
4. Arduino IDE (Software)
5. LED (Optional for testing User can use Built-in LED on MCU)

### B. Installing STM Development Board into Arduino IDE

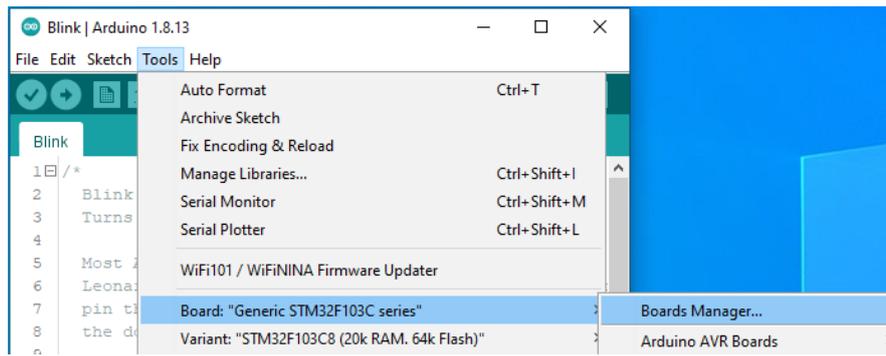
1. Open the Arduino IDE **Preferences** menu. (File>Preferences).



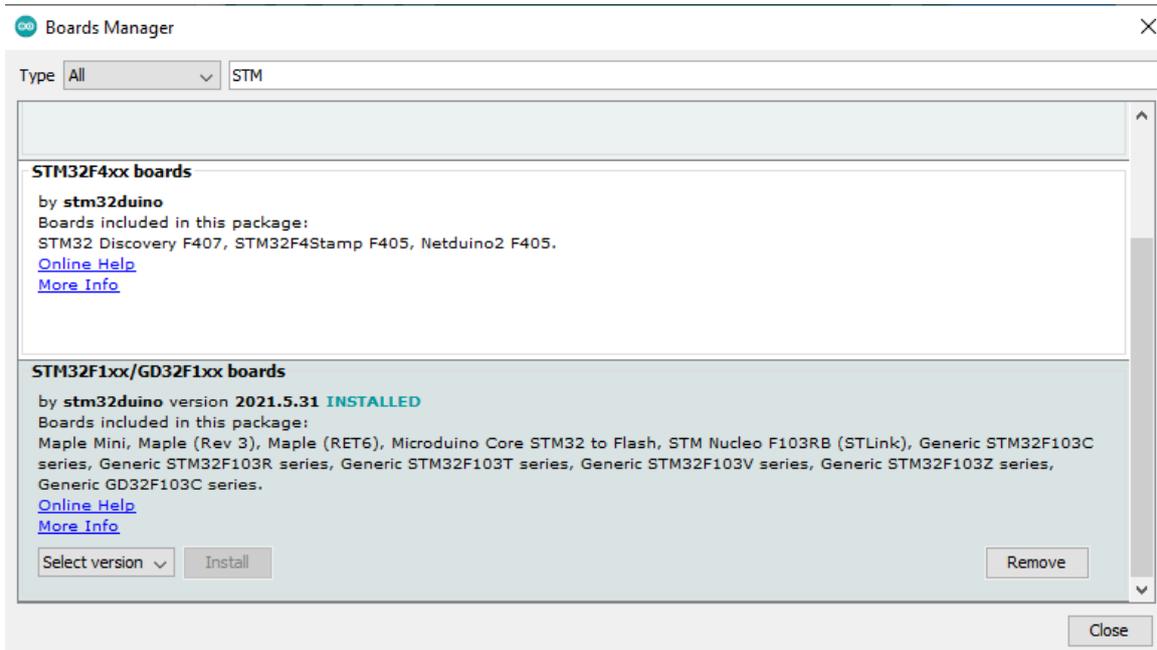
2. Add the following line/link into **Additional Boards Manager URLs** box.  
([http://dan.drown.org/stm32duino/package\\_STM32duino\\_index.json](http://dan.drown.org/stm32duino/package_STM32duino_index.json))



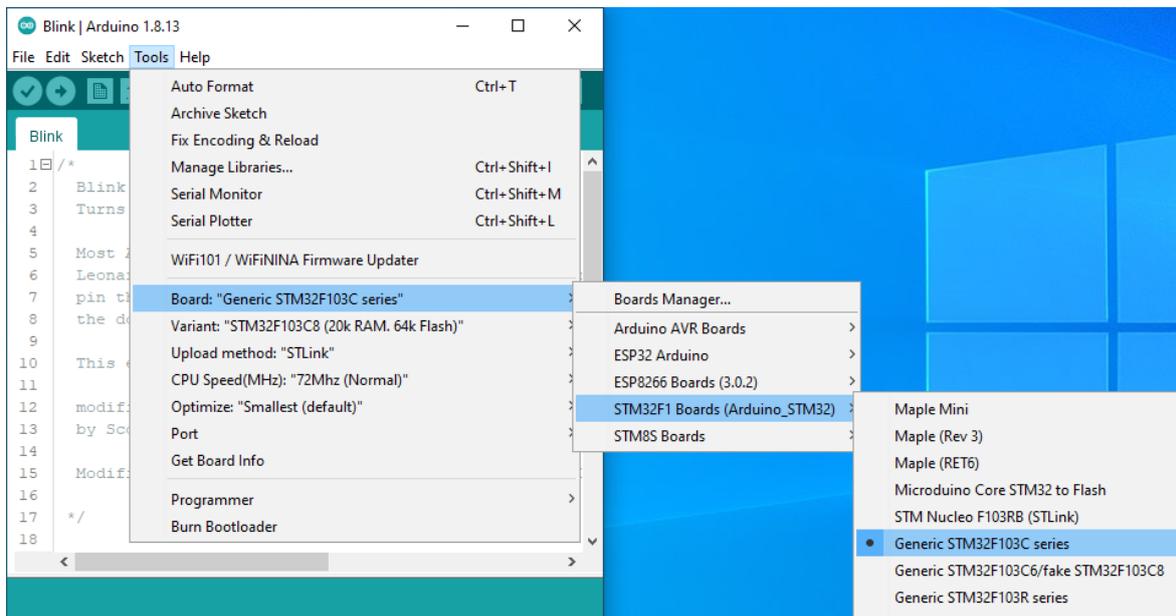
**3. Open Boards Manager to download the STM board.**



**4. Search for 'STM32F1xx/GD32F1xx' and Install board based on picture below.**

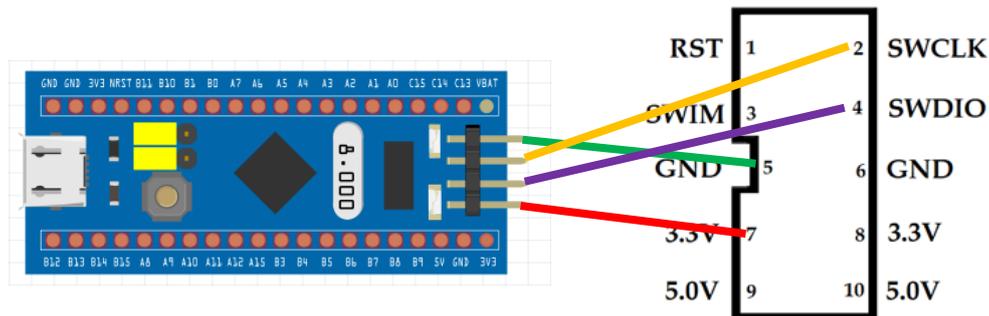


**5. Once Board installed it will display as Picture below.**



### C. Circuit Connection

ST-LINK V2	STM32F103C8T6
RST	-
SWCLK	DCLK
SWIM	-
SWDIO	DIO
GND	GND
3.3V	3.3V
5.0V	-

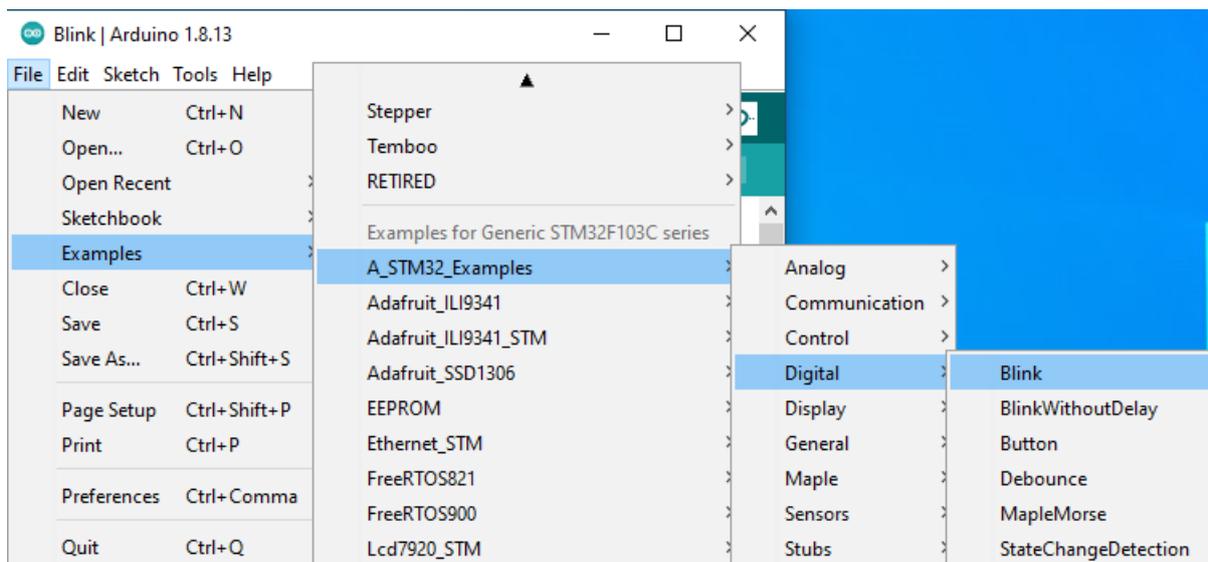


(No need to short Boot0 & Boot1)

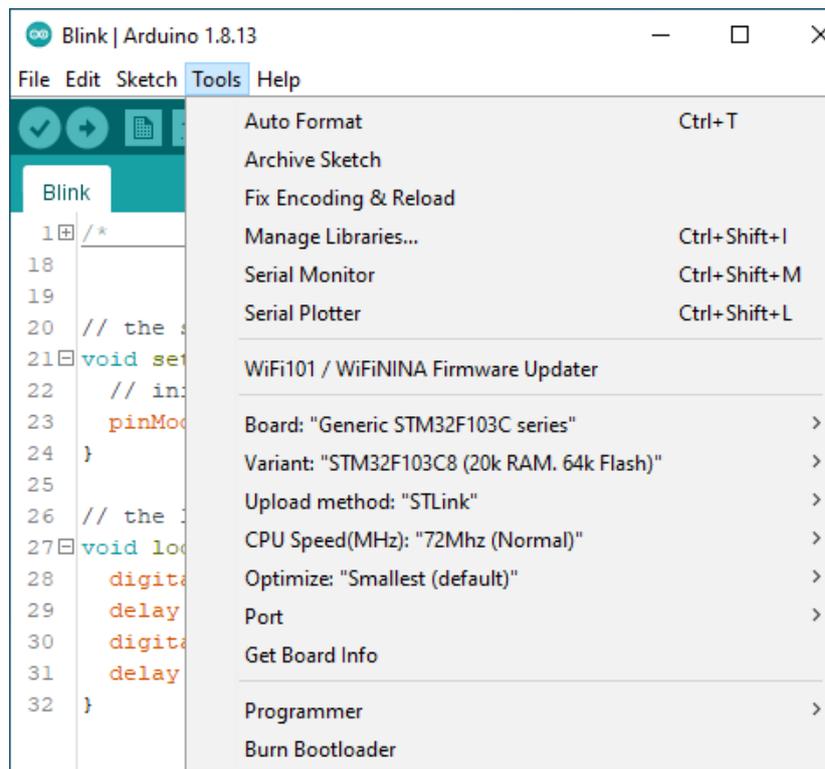
### D. Uploading Code to STM32F103C8T6

1. Open **Blink** code that specially made for STM32 board as below. Note that this Example code will added automatically after board installation earlier.

**(File > A\_STM32\_Examples > Digital > Blink)**



2. Make sure Board types & its other configurations are same as Picture below. (Note that ST-LINK V2 don't use COM Port).



3. Connect ST-LINK V2 to PC, make sure that it was detected on Device Manager.

