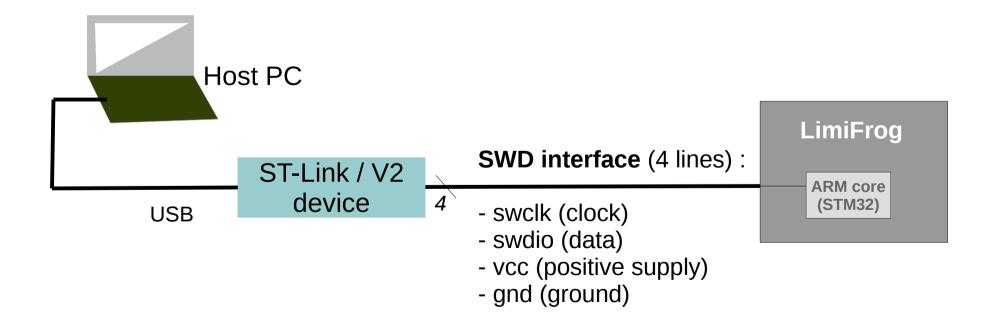




Connecting your ST-Link device to LimiFrog

Reminder: Principle

- > An ST-Link/V2 device acts as a 'bridge' between a host PC and LimiFrog. It enables downloading (and debuggging) code from the host PC into LimiFrog.
- > It connects to the host PC via USB and to LimiFrog via a specialized 'SWD' interface (4 wires).
- > The SWD port provides access to the STM32 micro-controller.

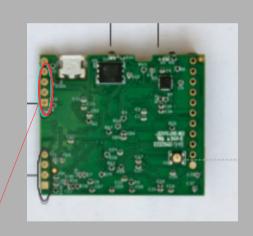


SWD port location on board

TOP VIEW



BOTTOM VIEW

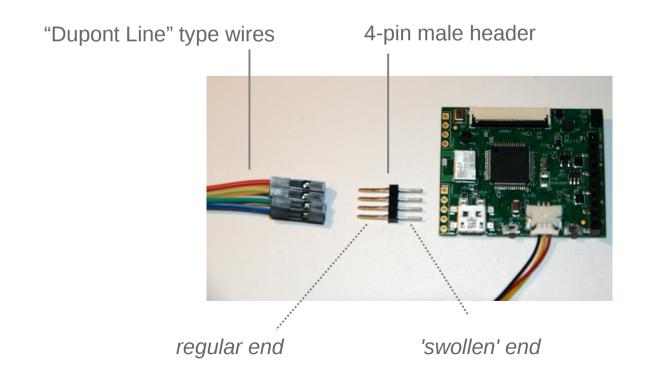




STM32 SWD interface (4 pins)

Header and wires for connecting to LimiFrog's SWD port

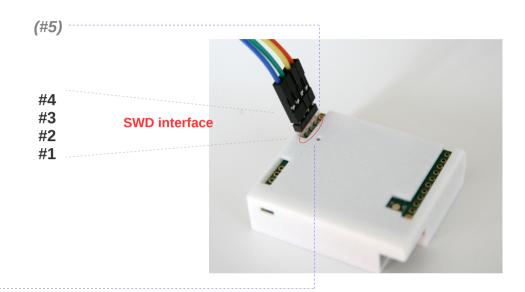
- > LimiFrog comes with a removable 4-pin male header that can be plugged into the SWD port of LimiFrog.
- > One end of this 4-pin header is slightly 'swollen': this end goes into the holes of the SWD port. The swelling facilitates mechanical contact, hence good electrical connection.
 - The other end plugs into the wires of e.g. four "Dupont Line" wires (provided).



Connecting to LimiFrog

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( Pin 5, not part of SDW interface )
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Pin 4 = SWDIO (data)
Pin 3 = SWCLK (clock)
Pin 2 = GND (ground reference)
Pin 1 = VCC (positive supply, typ. 3V)
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Pin 1 indicator on plastic package

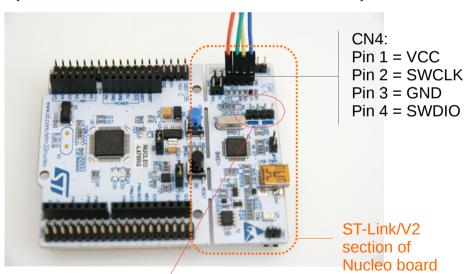
- Recommended installation when programming the board :
 - The module weights on the 4-pin header so electrical contact is facilitated.
 - If proper contact is not established, press slightly downwards.



Other side of the wires: ST-Link/V2 device (examples)

- > Identify the following signals on your ST-Link/V2 device : SWIDIO, SWCLK, GND, VCC/VDD
- > Connect them to the relevant wires
- > Next are a few examples :

Nucleo Board used as ST-Link/V2 device (refer to STM32 Nucleo User Manual)



- Connector CONN2 must be removed to use Nucleo as stand-alone ST-Link/V2
- LimiFrog must be ON to provide 3V on Nucleo ST-Link/V2 VCC pin

Low-cost ST-Link/V2 compatible dongle

