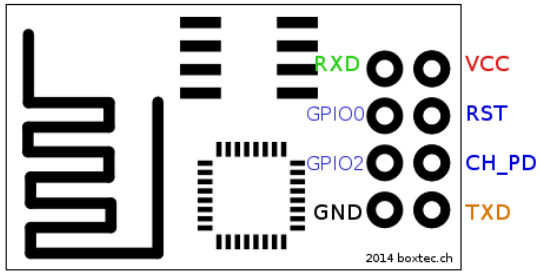
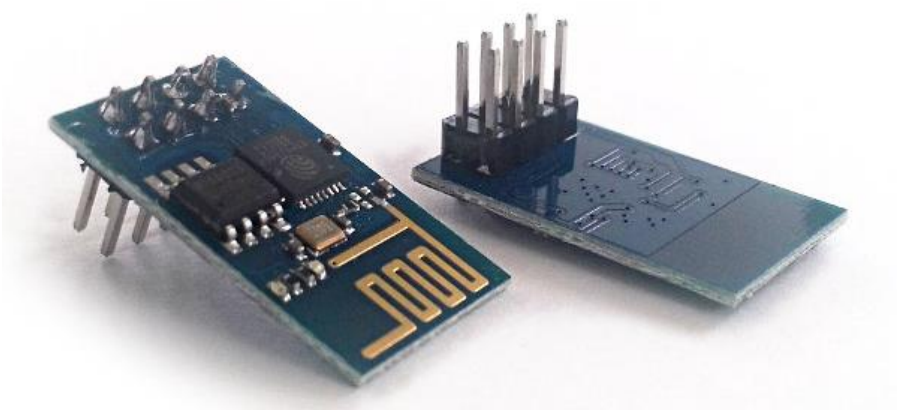
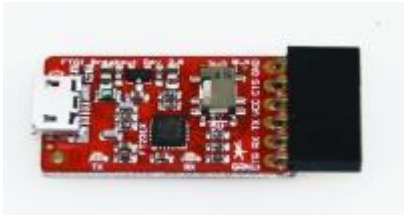
Programming ESP8266-01



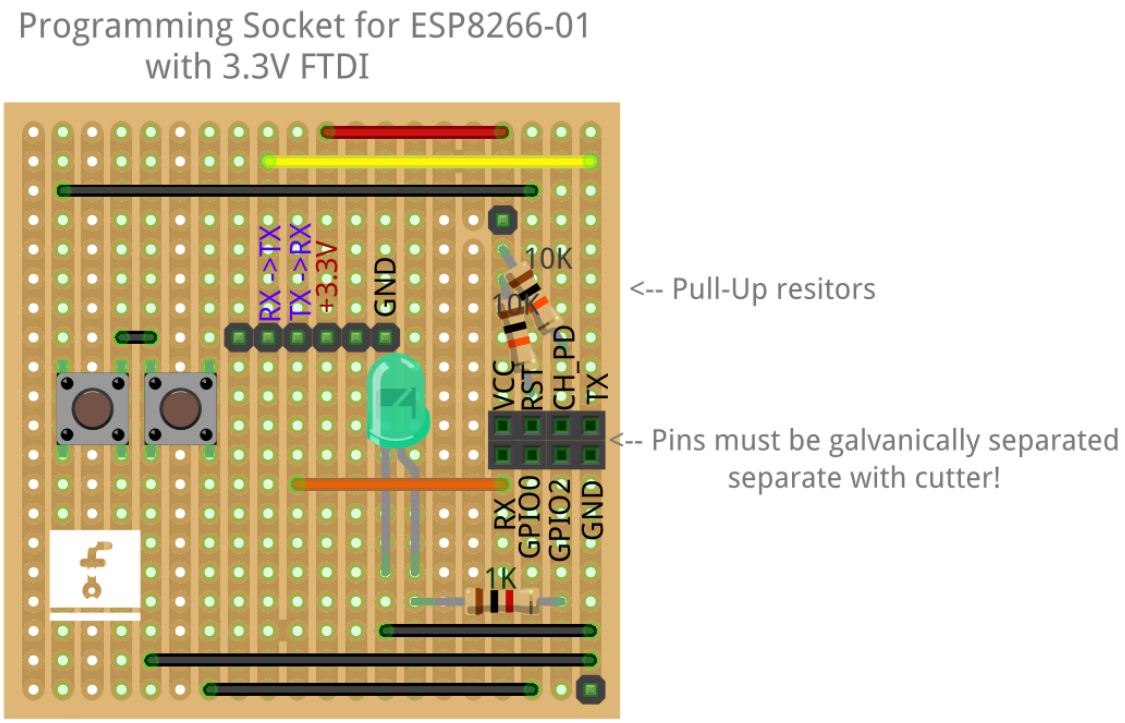


Using

https://www.watterott.com/de/FTDI-Breakout-Reloaded-V2



Using such a prototype board makes uploading a bit easier:



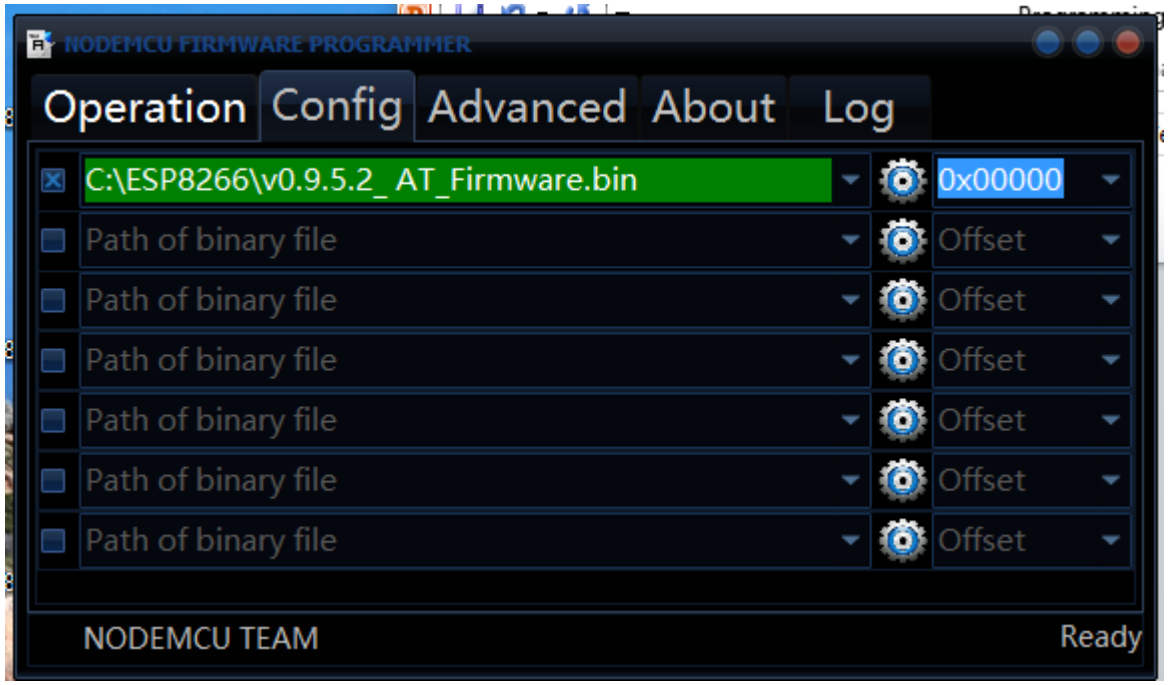
Update Firmware: Nodemcu-flasher

- https://github.com/nodemcu/nodemcu-flasher
- →ESP8266Flasher.exe

Get latest firmware and update!

https://github.com/JhonControl/ESP8266-Flasher/tree/master/Firmware%20ESP8266/Firmware%20ESP8266%20V0.9.5.2_AT

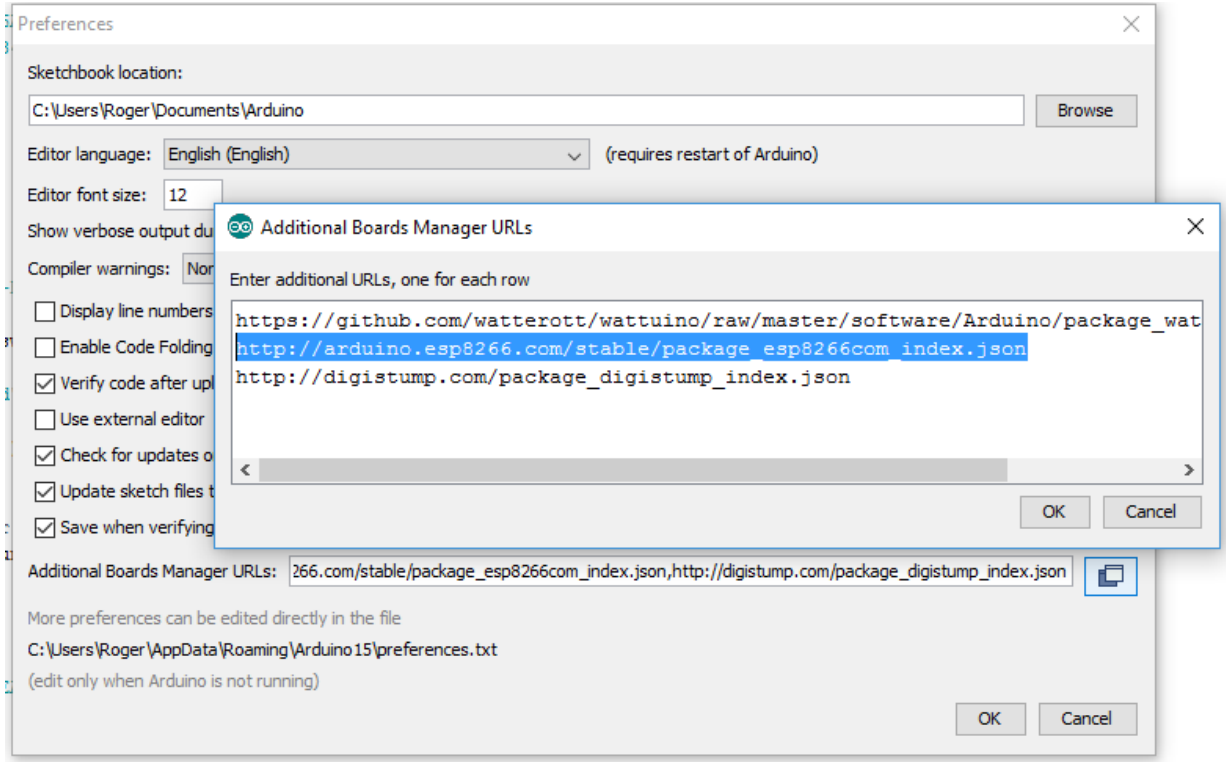
- C:\ESP8266\v0.9.5.2_AT_Firmware.bin



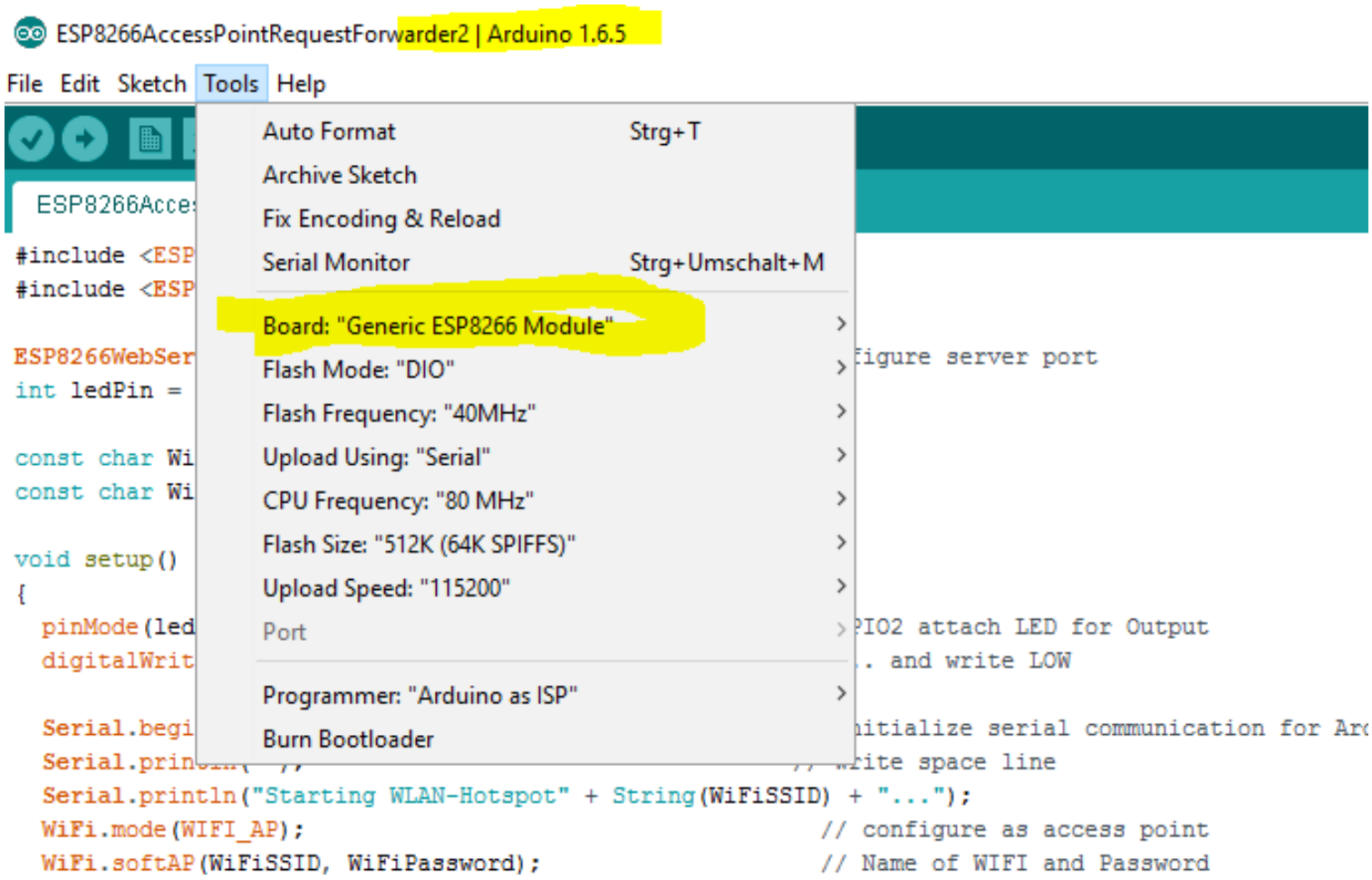
Arduino DIE 1.6.5

- Make sure you have the packages for ESP8266 support installed

http://arduino.esp8266.com/stable/package_esp8266com_index.json

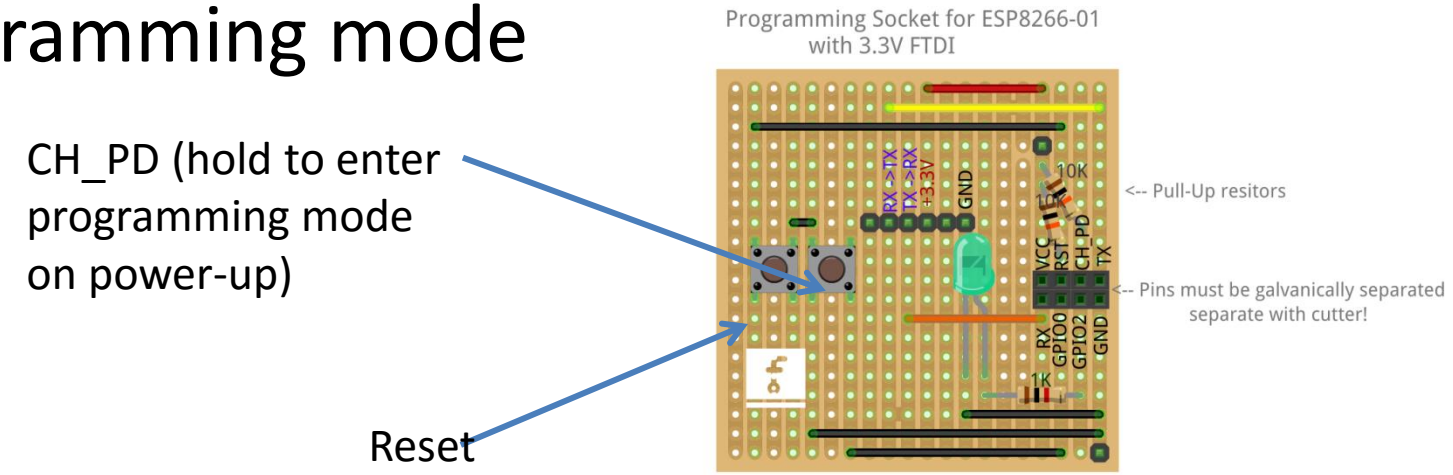


Use Arduino IDE 1.6.5 (not higher)



Start Upload in Arduiono IDE via FTDI

- If you are using this board press the left button (RST) and the right button (CH_PD) at the same time, then release RST first and then CH_PD → The ESP8266 is now in programming mode



Pressing RESET while holding CH_PD makes it easy to enter programming mode…

With the correct firmware on…

You should be able to use the following baud-rate (115200) and you can now send all kind of AT-Commands such as:

AT

AT+GMR

AT+CWMODE?

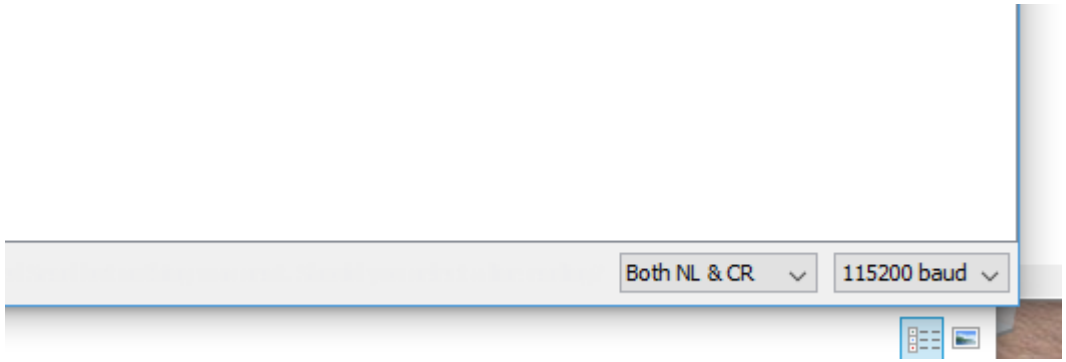
AT+CWMODE=1

(list of access points)
AT+CWLAP

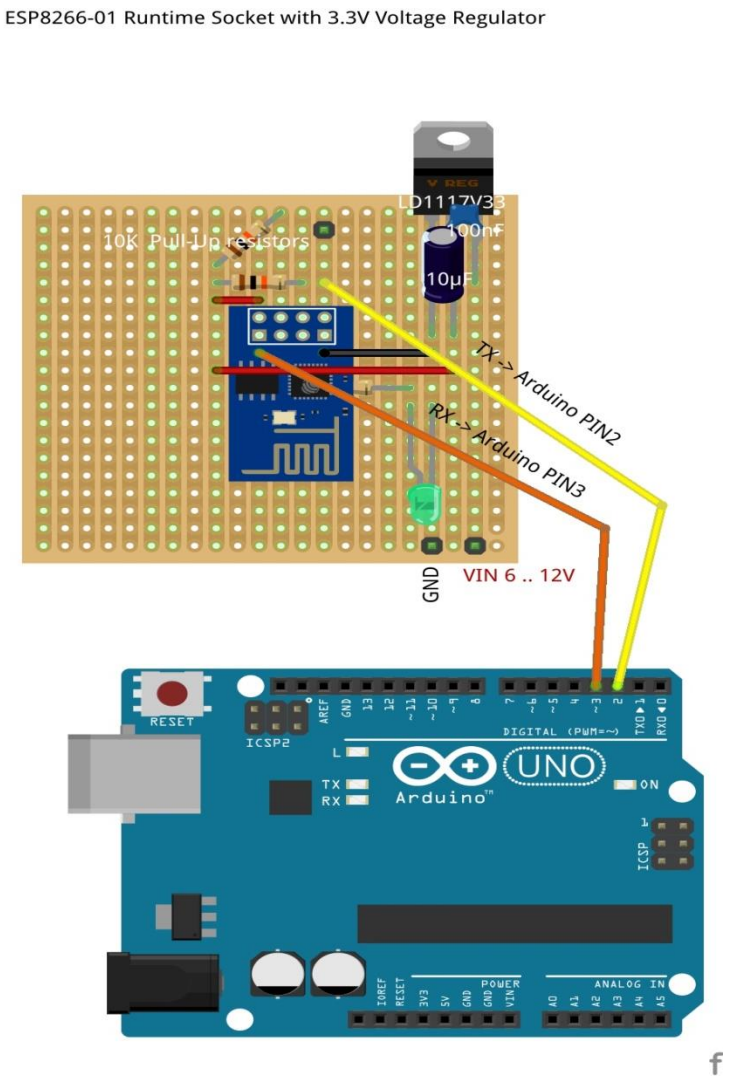
(join network)
AT+CWJAP="YourNetworkSSID", "1234"

(return IP-Address)
AT+CIFSR

-->
+CIFSR:STAIP,"192.168.0.19"
+CIFSR:STAMAC,"18:fe:34:81:16:23"



When software is on your ESP8266



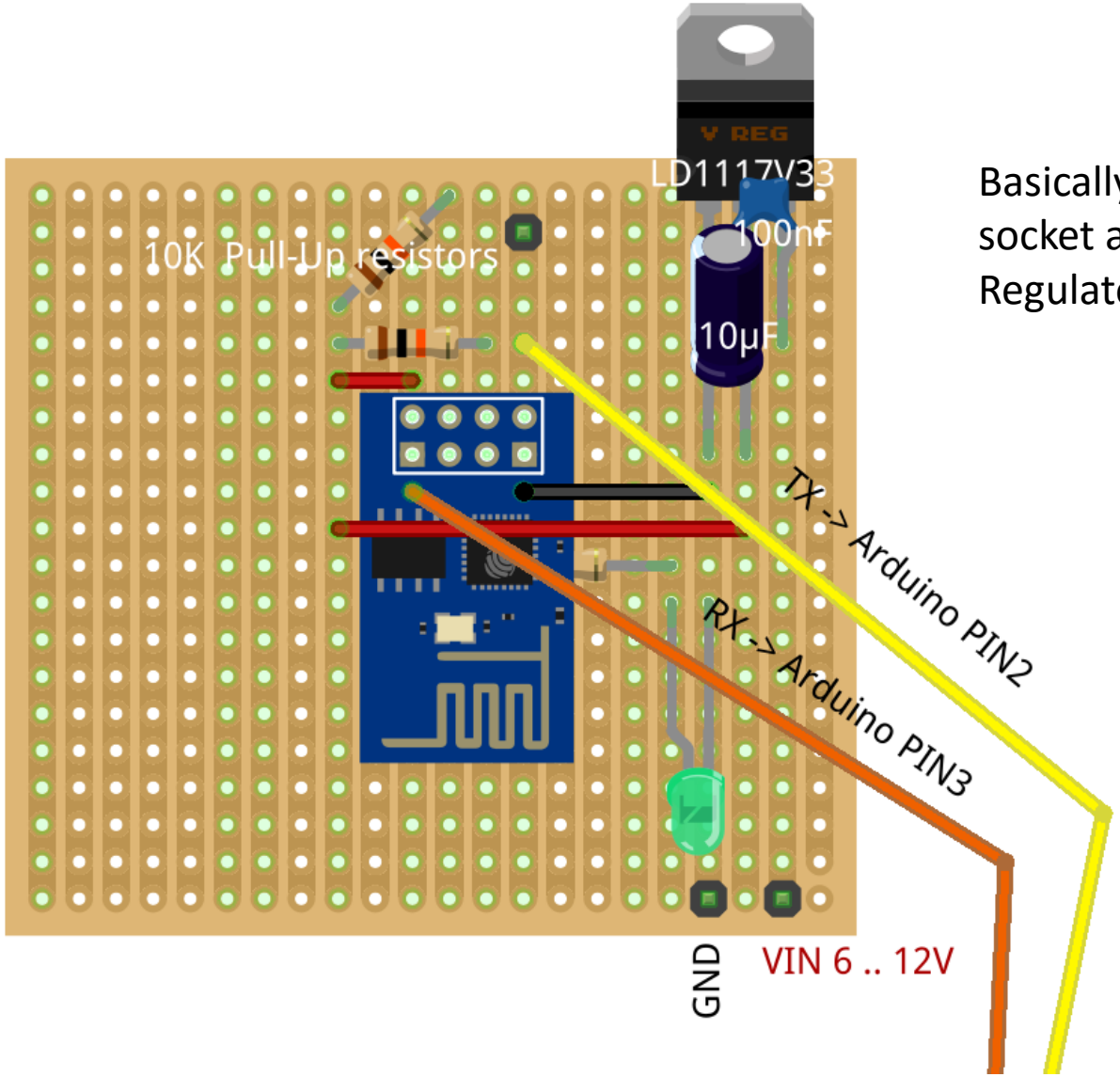
Connect Pin 2 and Pin 3 to TX and RX of ESP8266

Use a Voltage Regulator 3.3 V to power your ESP8266 or any other power-source.

Arduino will not supply such amount of power!!

(it's about 60mA @ 3.3V)

Larger picture of runtime-mode prototype board



Basically this is just a socket and a Voltag-Regulator for 3.3V