setup arduino IDE for ESP8266

- 1. download the latest Arduino IDE and unpack it.
- 2. create a subdirectory called portable
- 3. start your arduino IDE and go to File→preferences and add this to *Additional Boards Manger URLs*: http://arduino.esp8266.com/stable/package esp8266com index.json
- 4. select OK and go to Tools-Boards...-Boards Manager... and enter ESP into the search. now install the esp8266 module and close that window.
- 5. for generic ESP boards verify your settings under Tools are like these:

```
Board: "Generic ESP8266 Module" <<<!!!!
Flash Mode: "DOUT" <<<!!!!
Flash Size: "1M (no SPIFFS)" <<<!!!!
Debug Port: "Disabled"
Debug Level: "None"
LwIP Variant: "v1.4 Prebuilt" <<<!!!
Reset Method: "ck"
Crystal Frequency: "26 MHz"
Flash Frequency: "40MHz"
Upload Using: "Serial"
CPU Frequency: "80 MHz"
Upload Speed: "115200"
Port: Your COM port connected to sonoff
```

6. for the Wimos D1 mini boards I used these settings (despite mine was called D1 mini and there is also a board setting for the mini, but it didn't upload the sketch when it got bigger than a very small size):

```
Board: "Wemos D1 R2"
Flash Size: "4M (1M SPIFFS)"
```

leave the rest to the defaults

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