



Introduction to PSOC for Arduino and Motor Control

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AGENDA

01 Motor Control

02 What is PSOC?

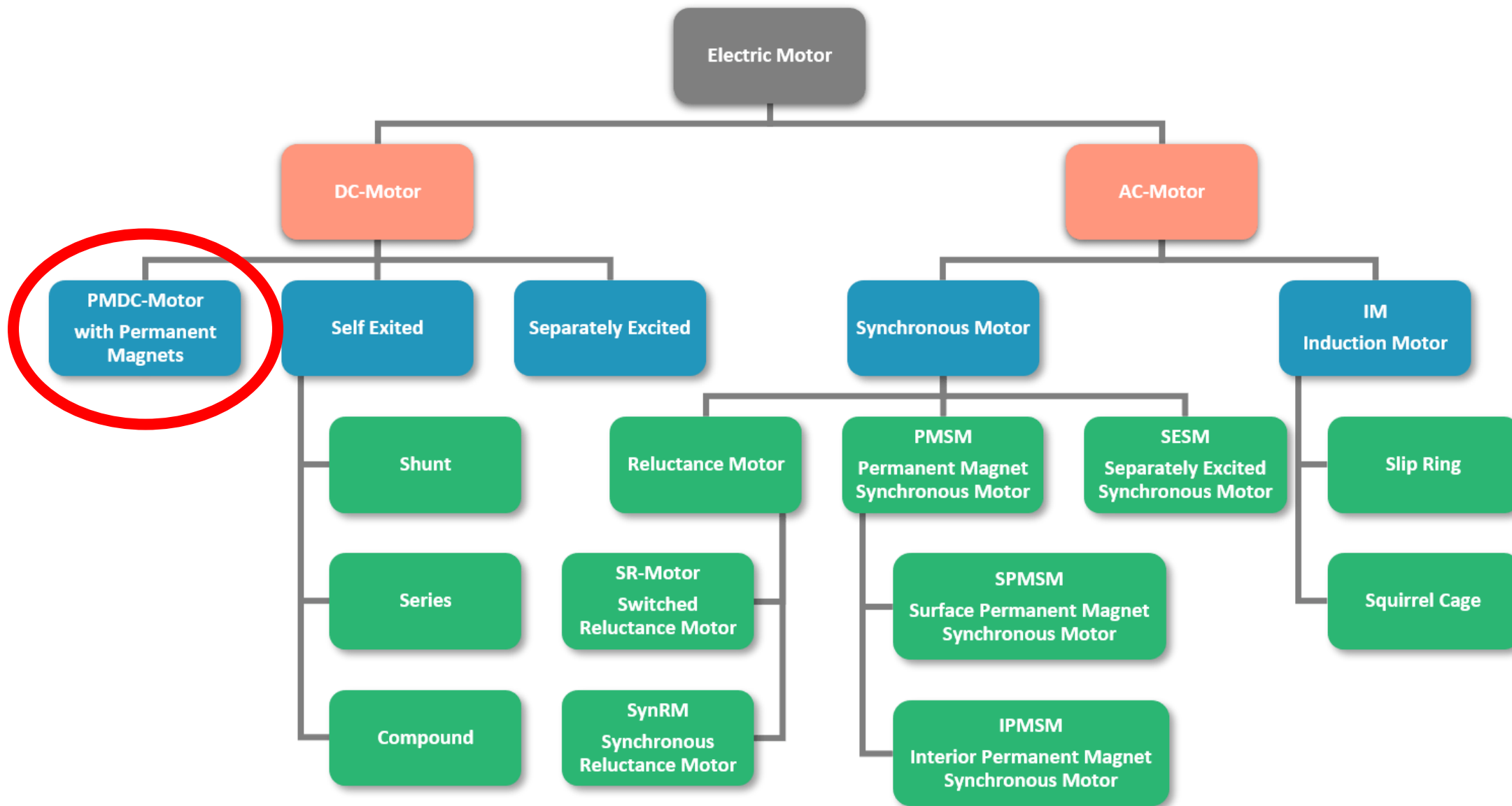


03 Why PSOC4 Arduino?

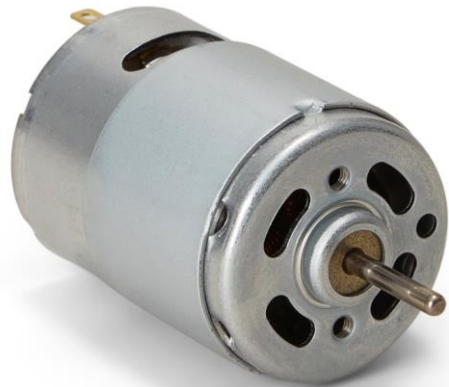
04 Installation



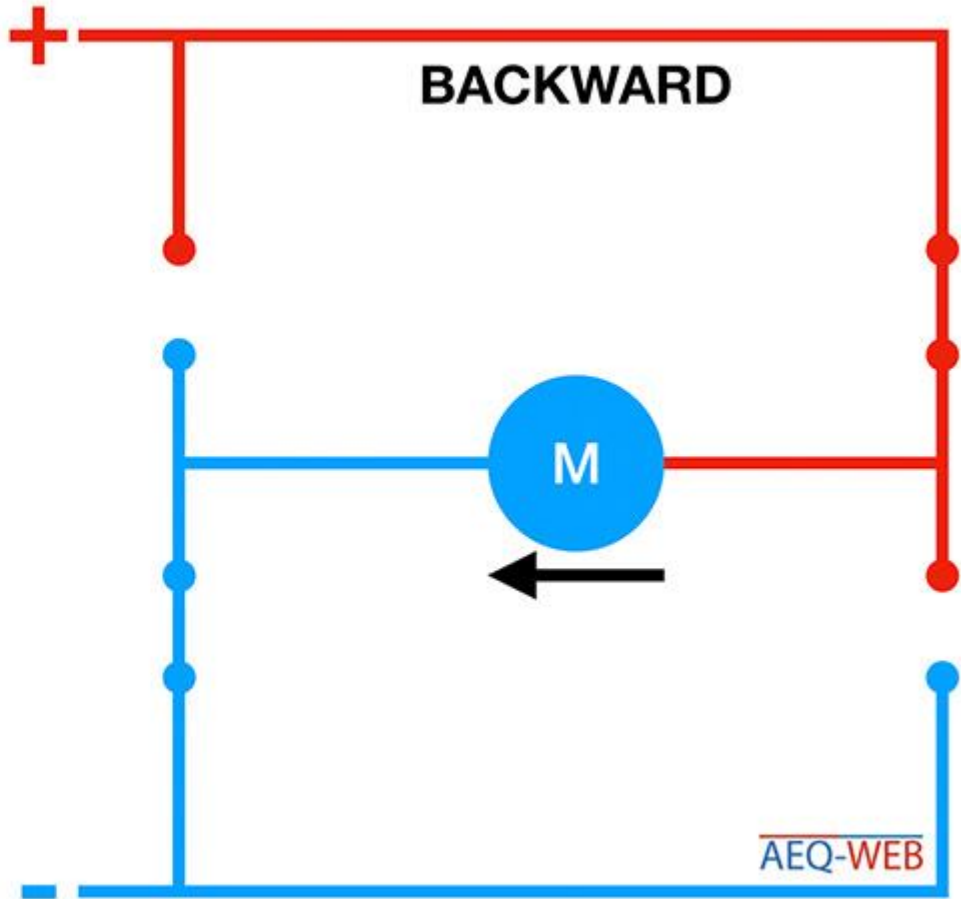
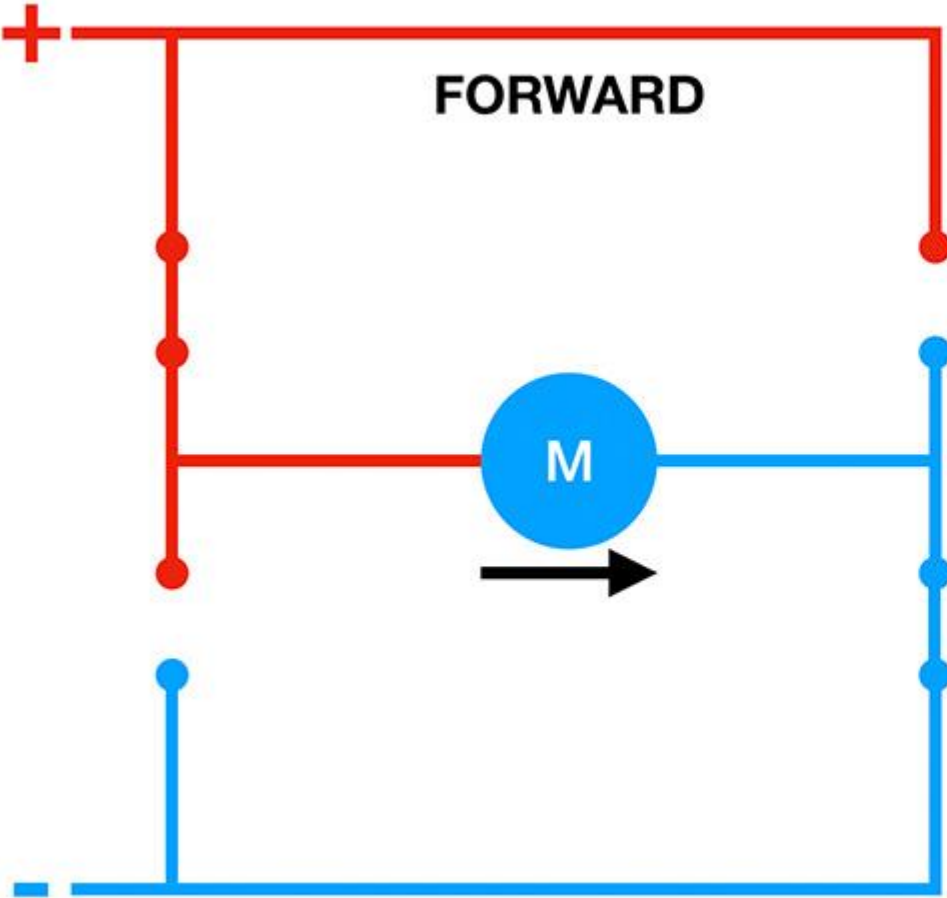
Motor Control



Motor Control



Motor Control



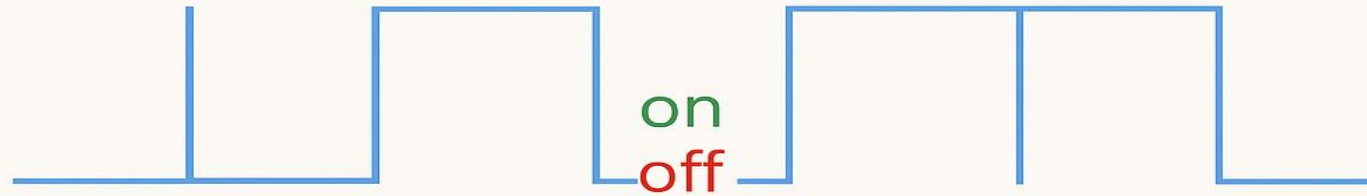
AEQ-WEB

Motor Control

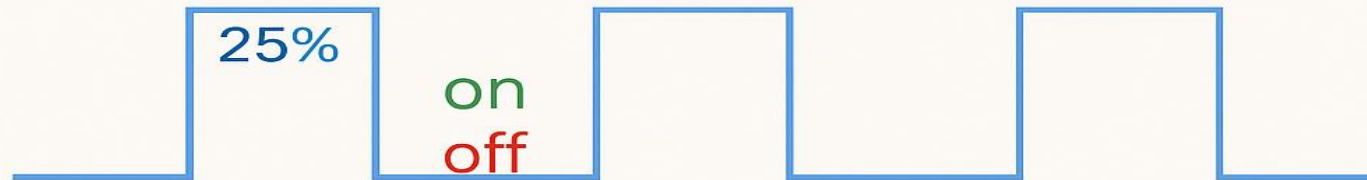
50% duty cycle



75% duty cycle



25% duty cycle



What is PSOC

- PSOC = Programmable System on Chip
- Microcontroller
- Functions:
- PWM
- ADC
- communication protocols (UART, CAN, SPI, I2C)



Why PSoC for Arduino?

Arduino ecosystem = simple, popular, numerous libraries

PSoC = powerful, flexible

Through integration, you can:

- Still develop easily in Arduino style

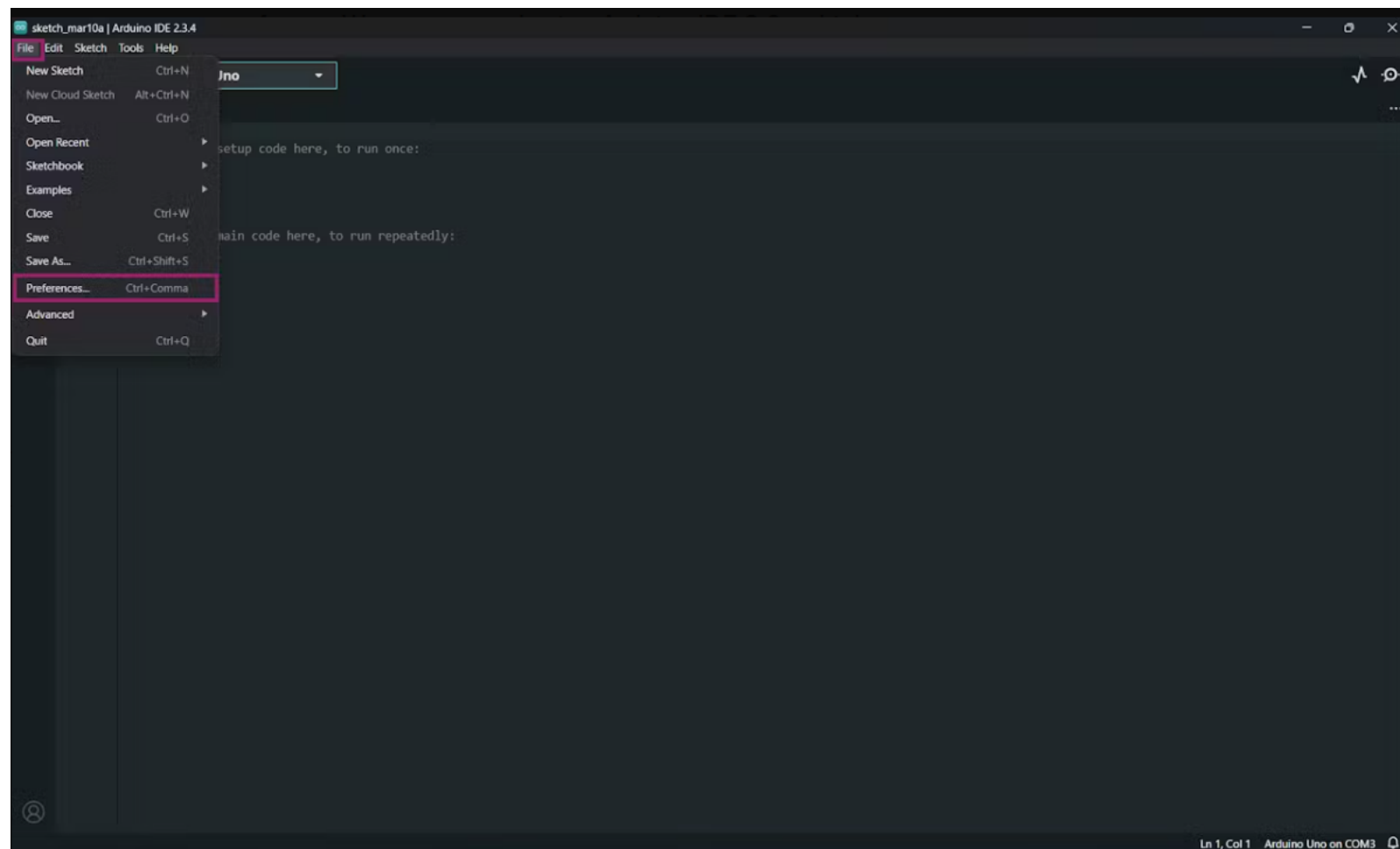
- Benefit from existing Arduino code

- Big community



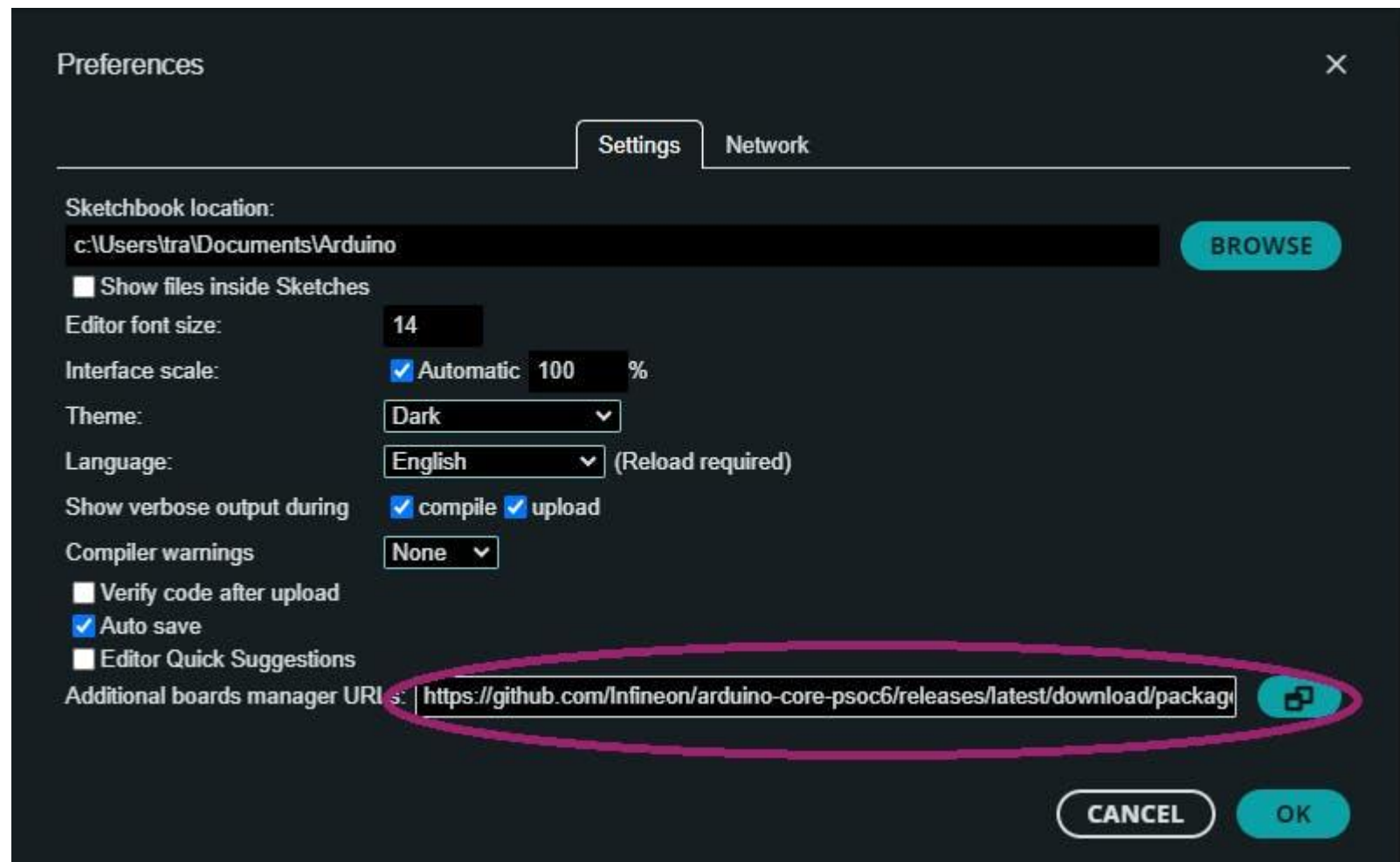
Installation

- 1. Download Arduino
- <https://www.arduino.cc/en/software/>
- Open Arduino
 - File → Preferences



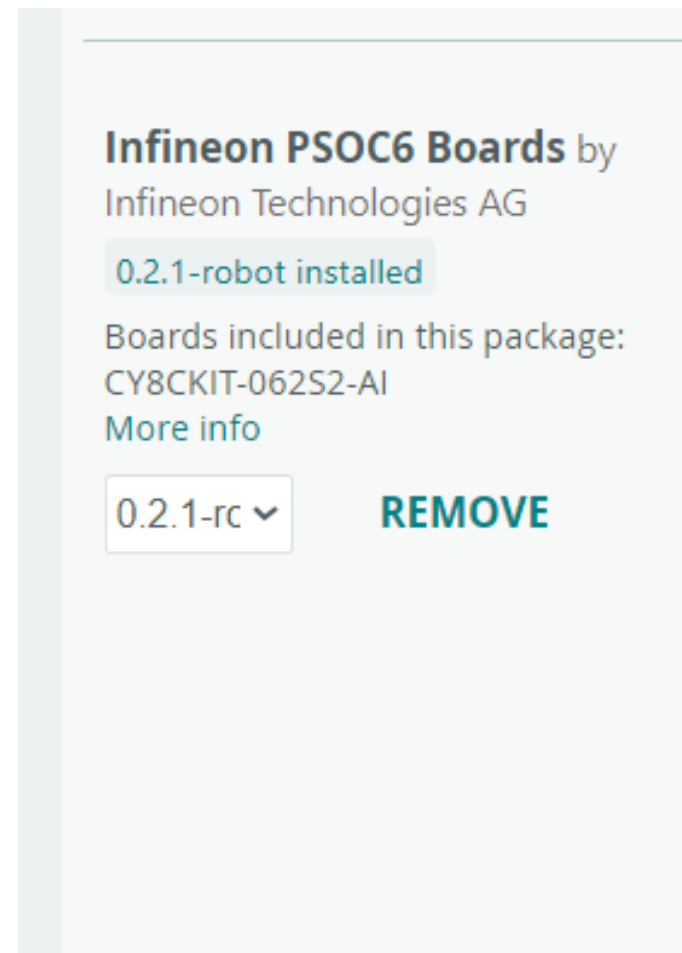
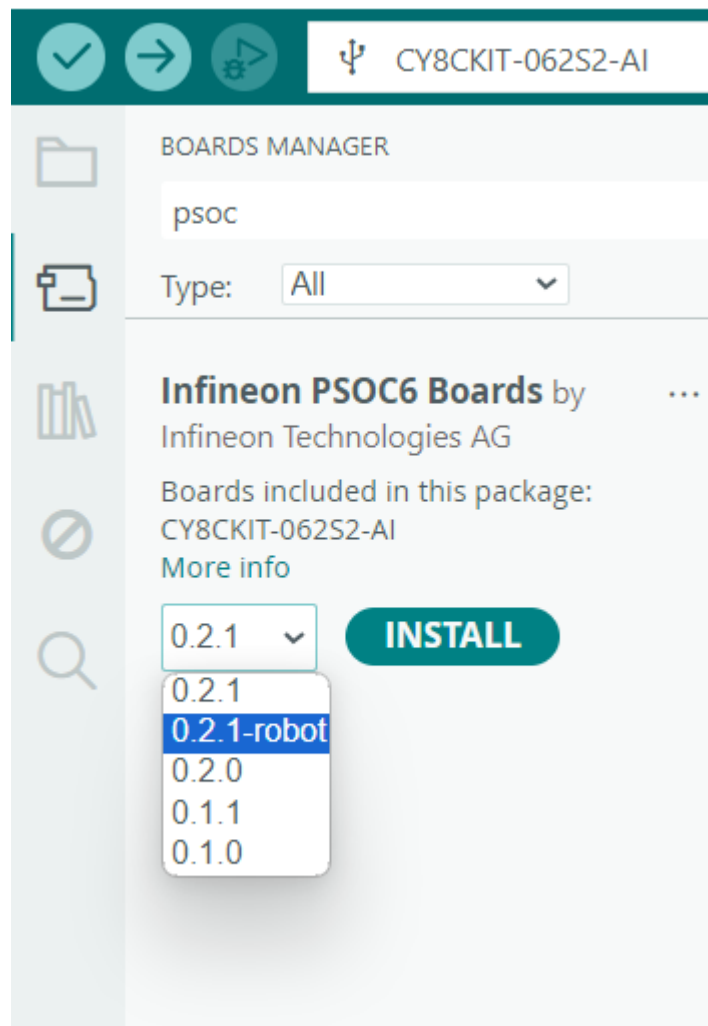
Installation

– Insert Link



Installation

- Select the right version
- we need 0.2.1-robot
- Press install



Installation

Maybe you need it later



