

NODE MCU

- → IoT development board like Arduino Uno
- → Can be programmed via Arduino IDE
- → Has a built-in WiFi chip
- → Has less pins than the Arduino Uno (10 GPIO General Purpose Input/Output Pins)

2.5

 VIA
 VIA
 VIB
 High Side
 2.5

 VIA
 PWM
 High Side / Low Side
 2.5

 VIA
 PWM
 High Side / Low Side
 2.5

 PV
 PWM
 High Side / Low Side
 5.0

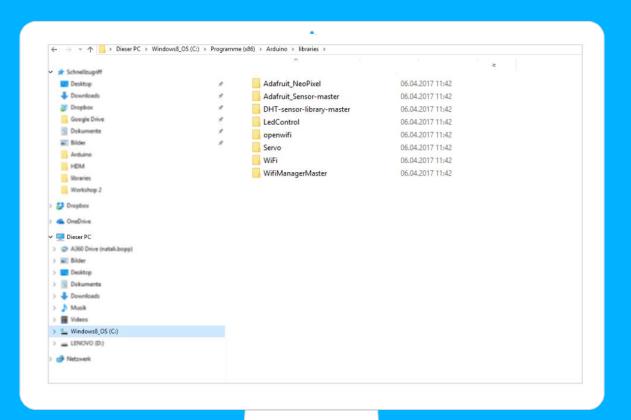
 PW
 PWM
 High Side / Low Side
 2.5

High Side / Low Side

DIA DIAM

DID YOU INSTALL THE LIBRARIES?

http://www.arduino.cc/en/Guide/Libraries







Changing LED color

- Implement a color change for the led strip.
- With each button push color changes.
- → The light strip serves as output.
- → Hint: make a switch case or random on button press





Changing LED color

→ The solution can be found on Slack!



THE BINARY **COUNTER**

- Implement a binary counter.
- With each button push the number goes up.
- The light strip serves as output.
- Example: $6 \Rightarrow 0110$













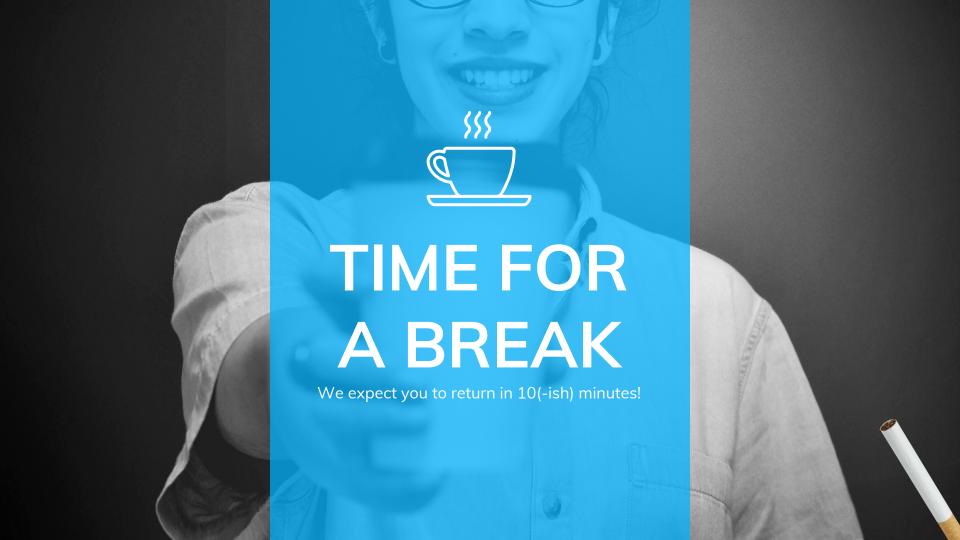






THE BINARY COUNTER

→ The solution can be found on Slack!





THE WEB OF BOXES

- → Connect your box to other boxes!
- → Look at the web interface and see the results!



THE WEB OF BOXES

→ The solution can be found on Slack!

