JavaScript on Microcontrollers



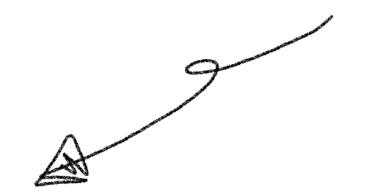
JavaScript on Microcontrollers



I am Niels Leenheer



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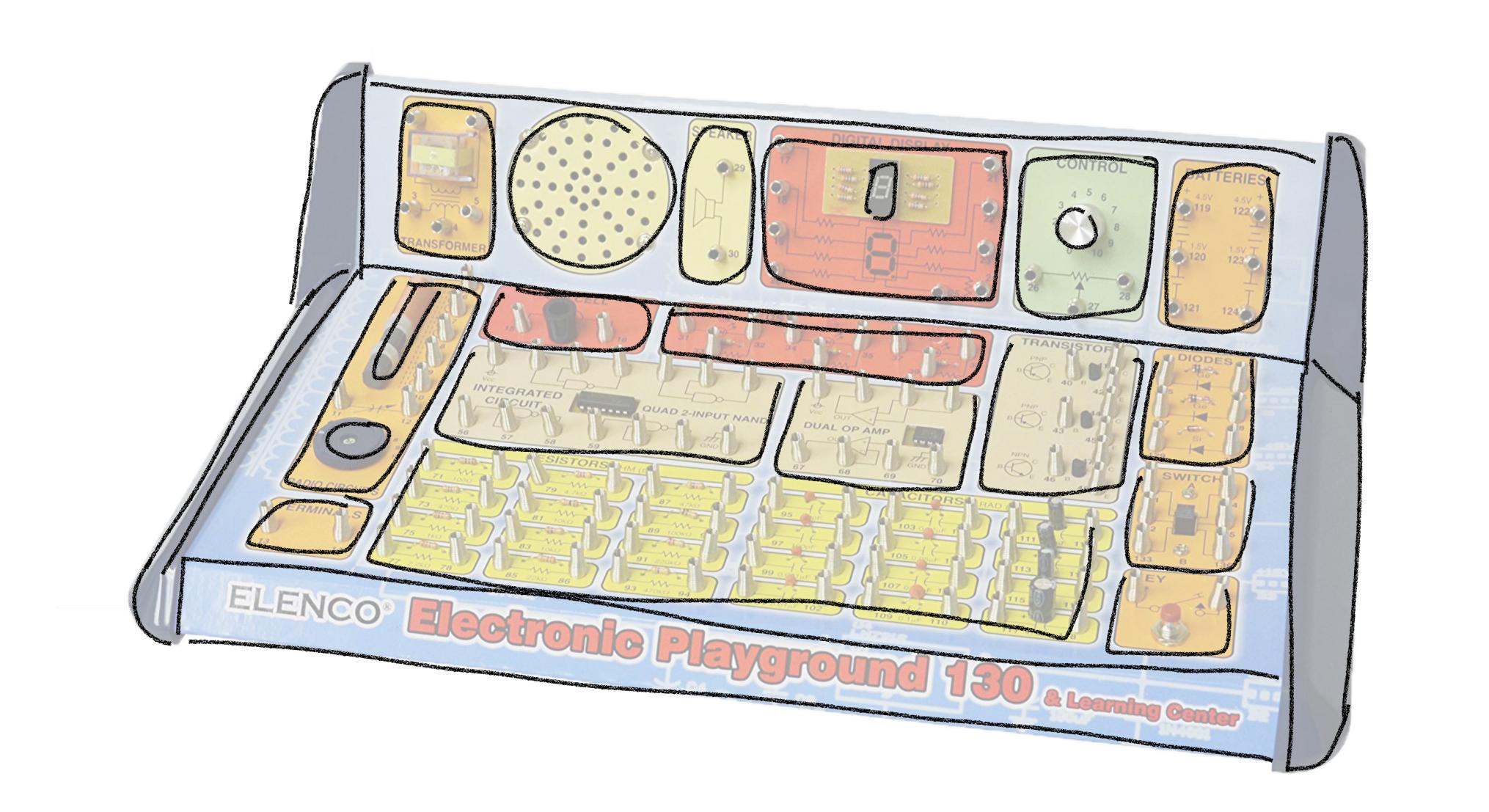


I tweet at @html5test

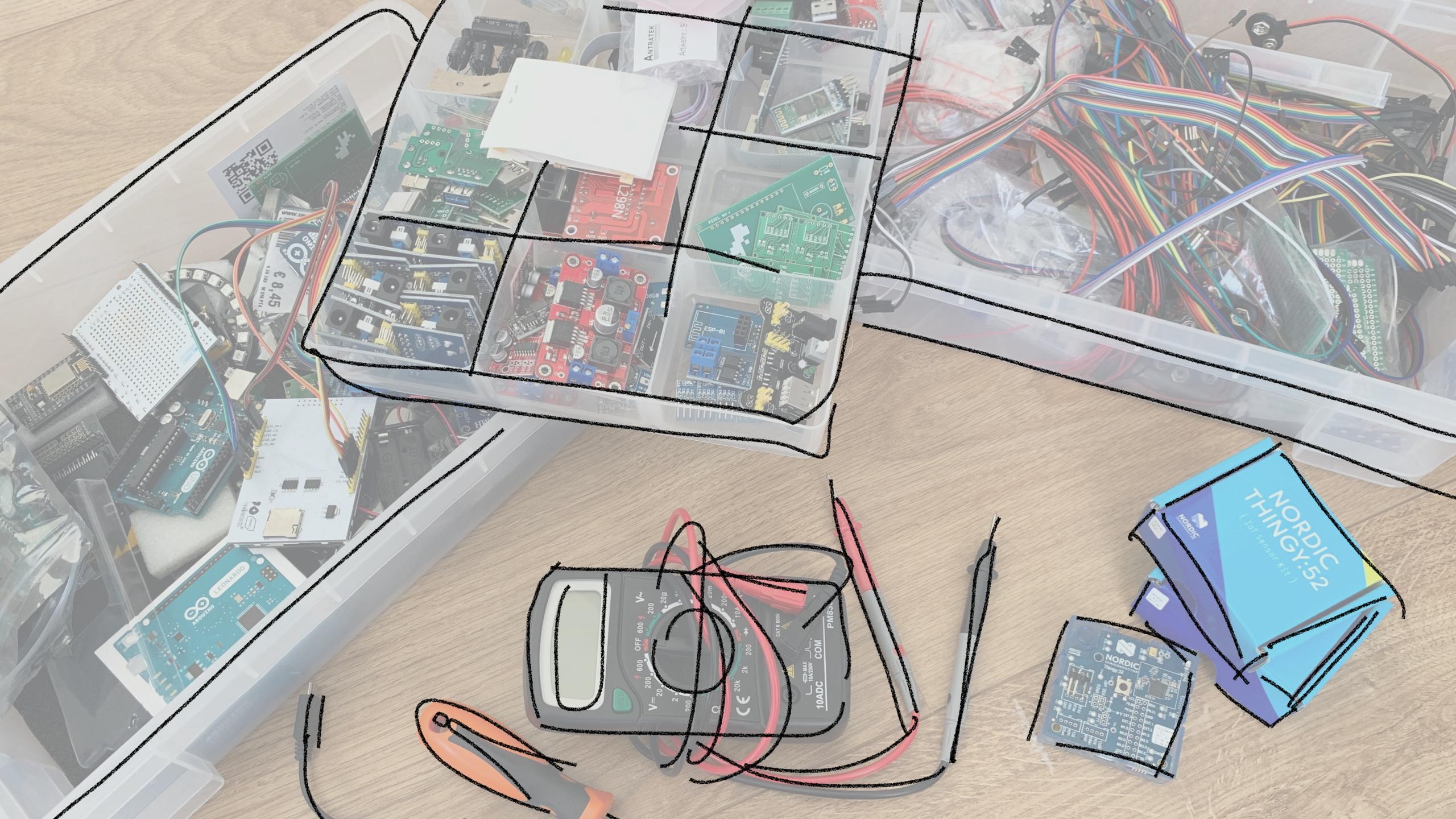


I electronics









JavaScript on Microcontrollers



but

Microcontrollers are slow.



Microcontrollers are slow.

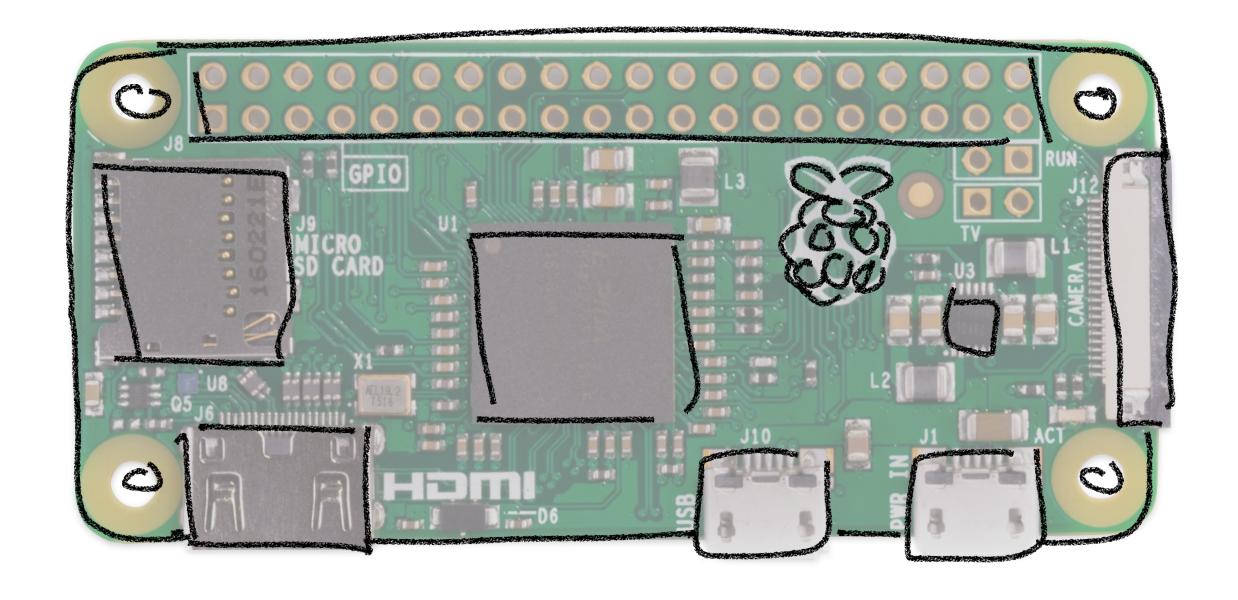




Microcontrollers are slow.



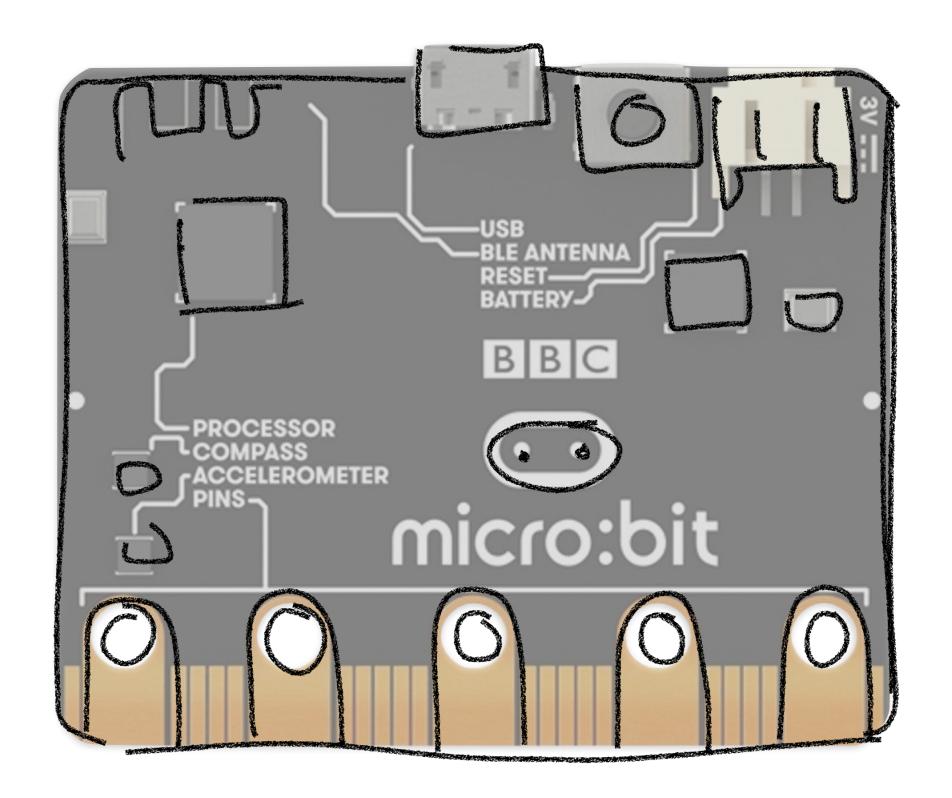




Raspberry Pi Zero W

1 GHz CPU and 512MB RAM

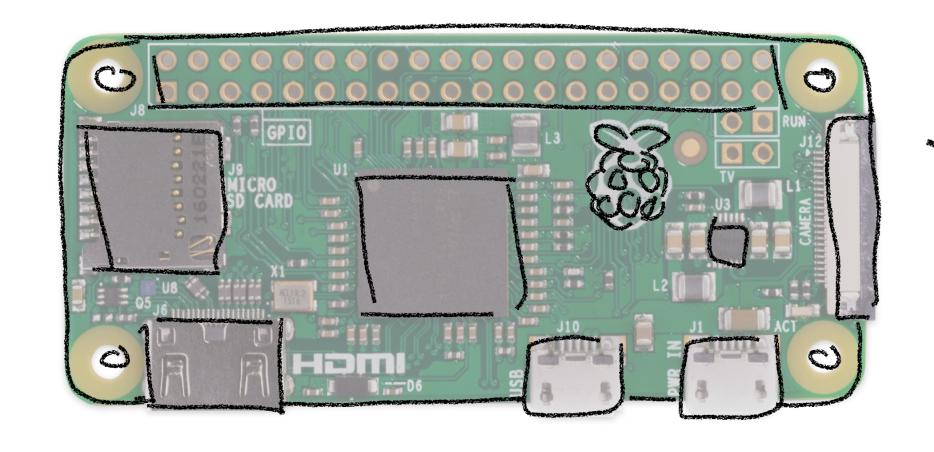




micro:bit

16 MHz CPU and 16KB RAM

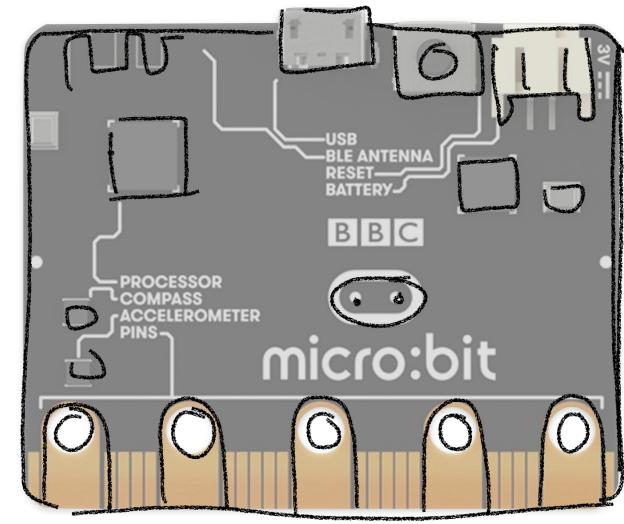




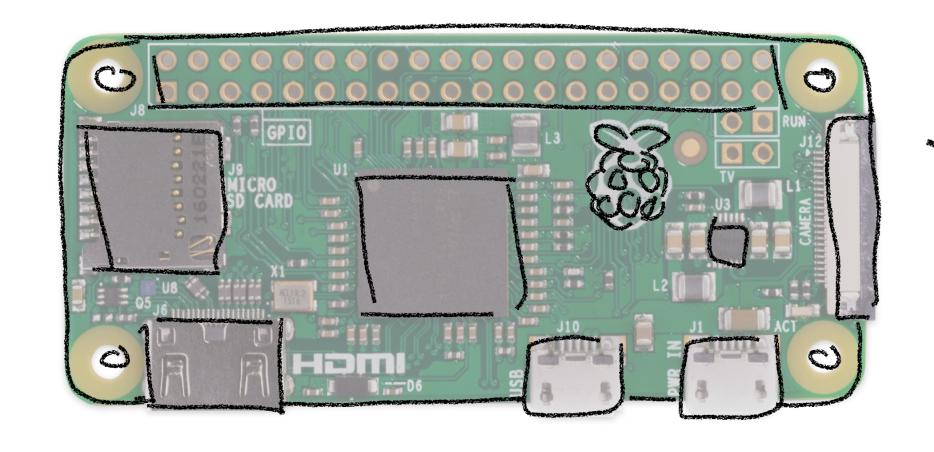


60 x faster





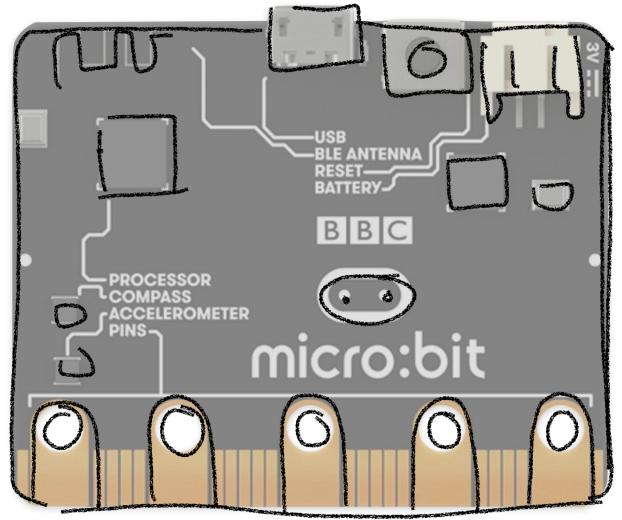






30.000 x memory







Microcontrollers are very power efficient.



Microcontrollers are very power efficient.



Microcontrollers only need to be fast enough to solve the problem.



Microcontrollers only need to be fast enough to solve the problem.





how

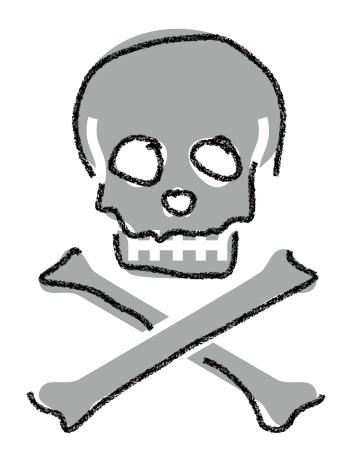




Espruino is a JavaScript interpreter for microcontrollers.



demo

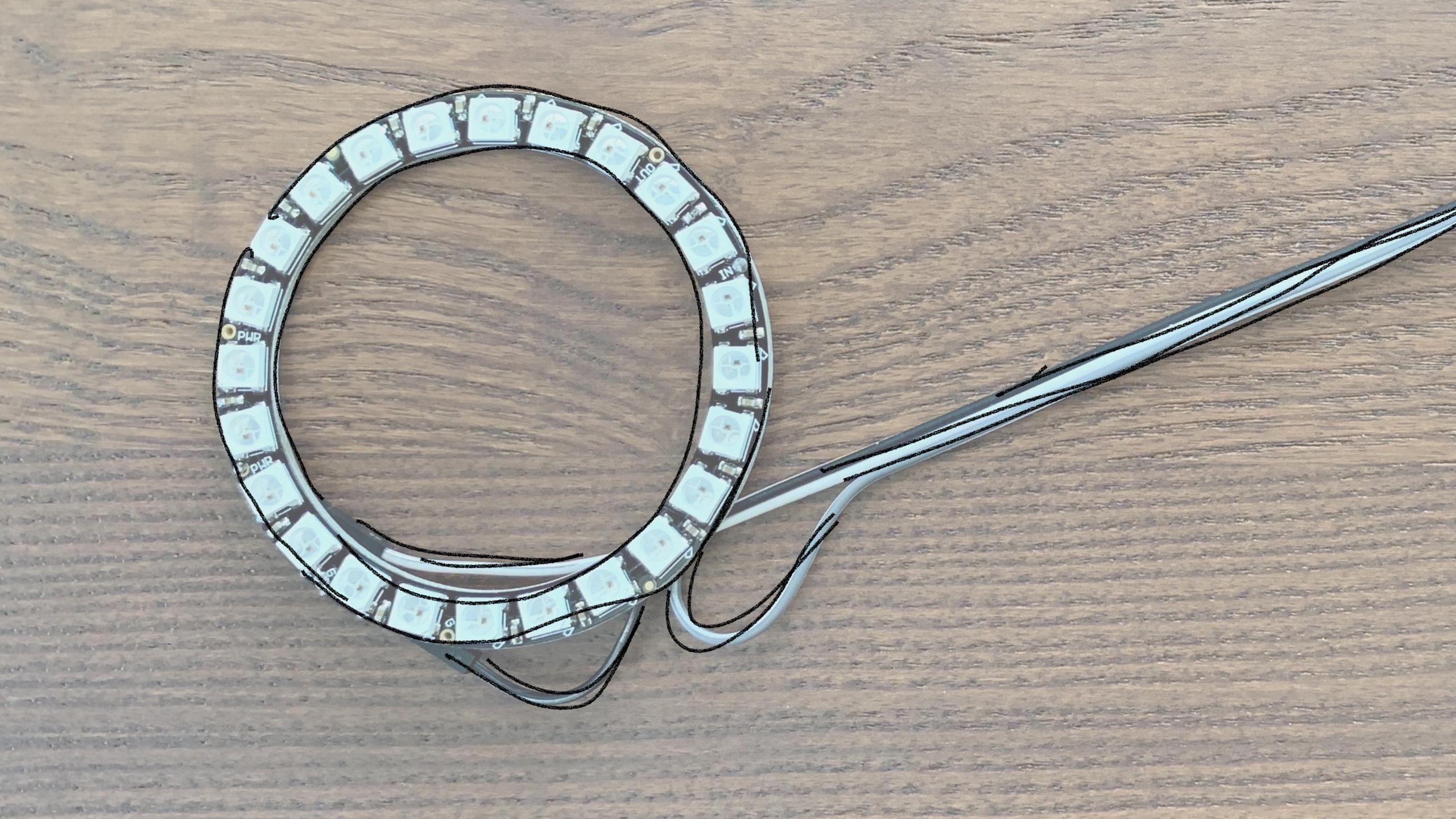


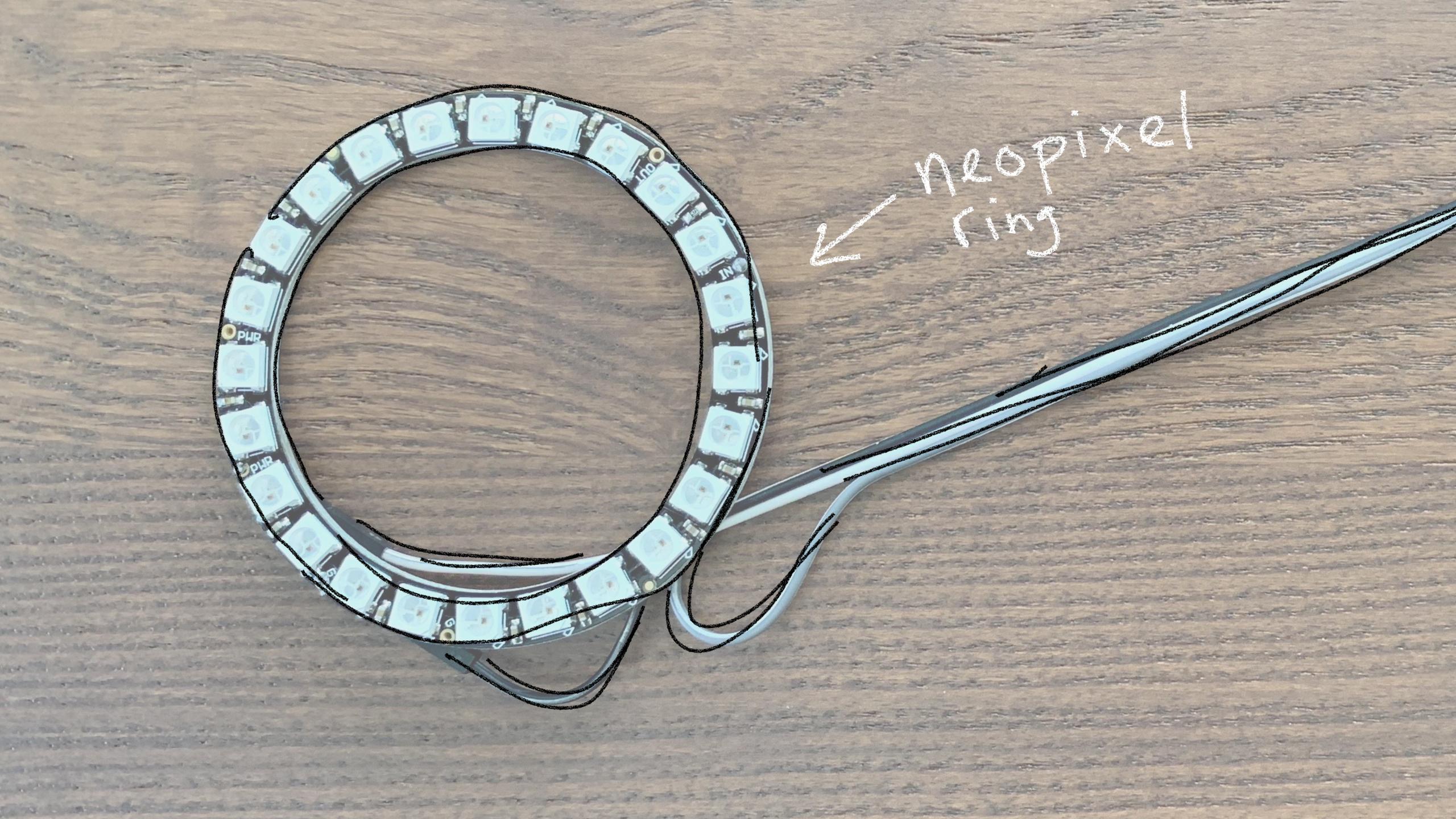
Experimental technology

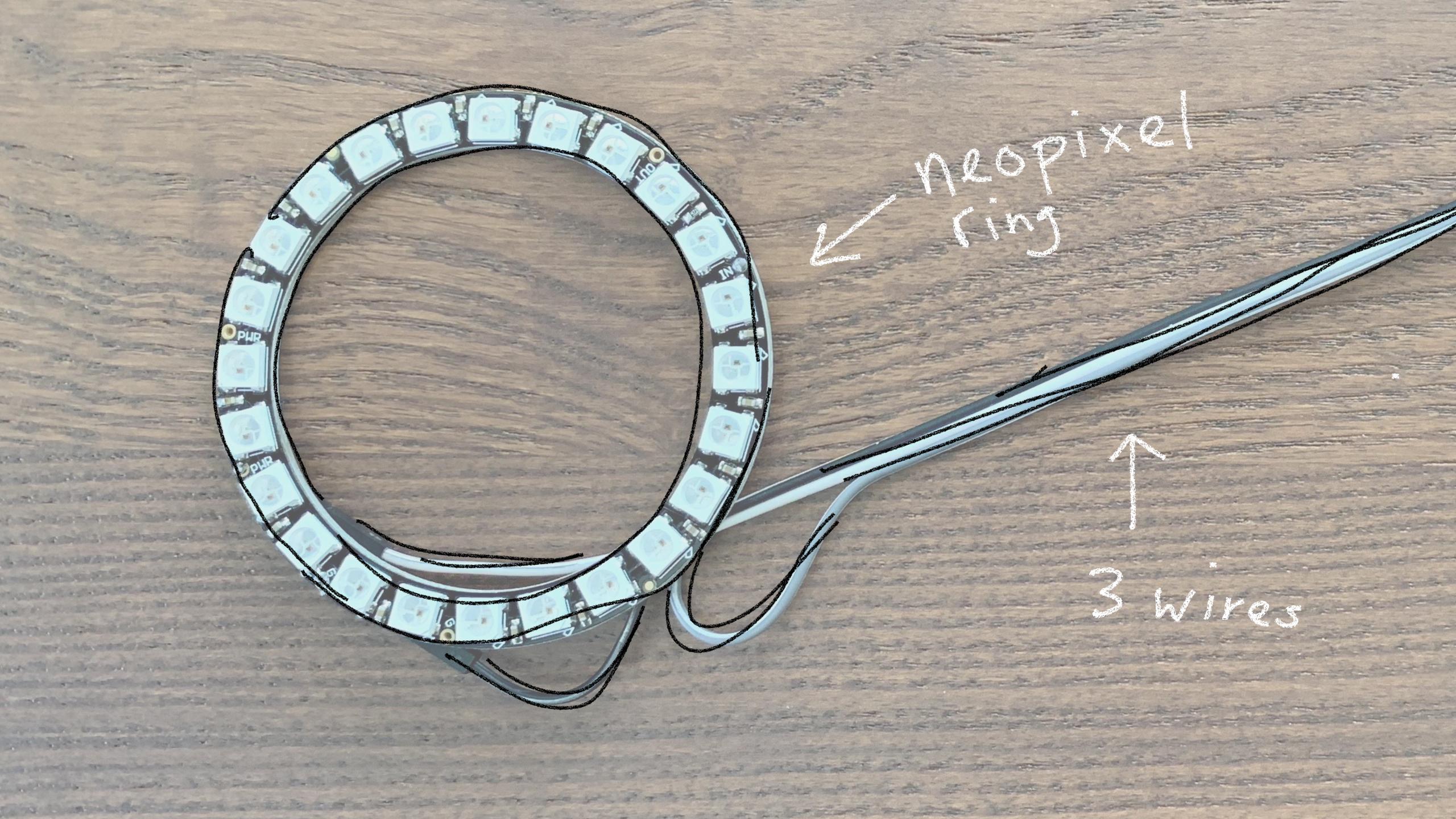
Setting low expectations

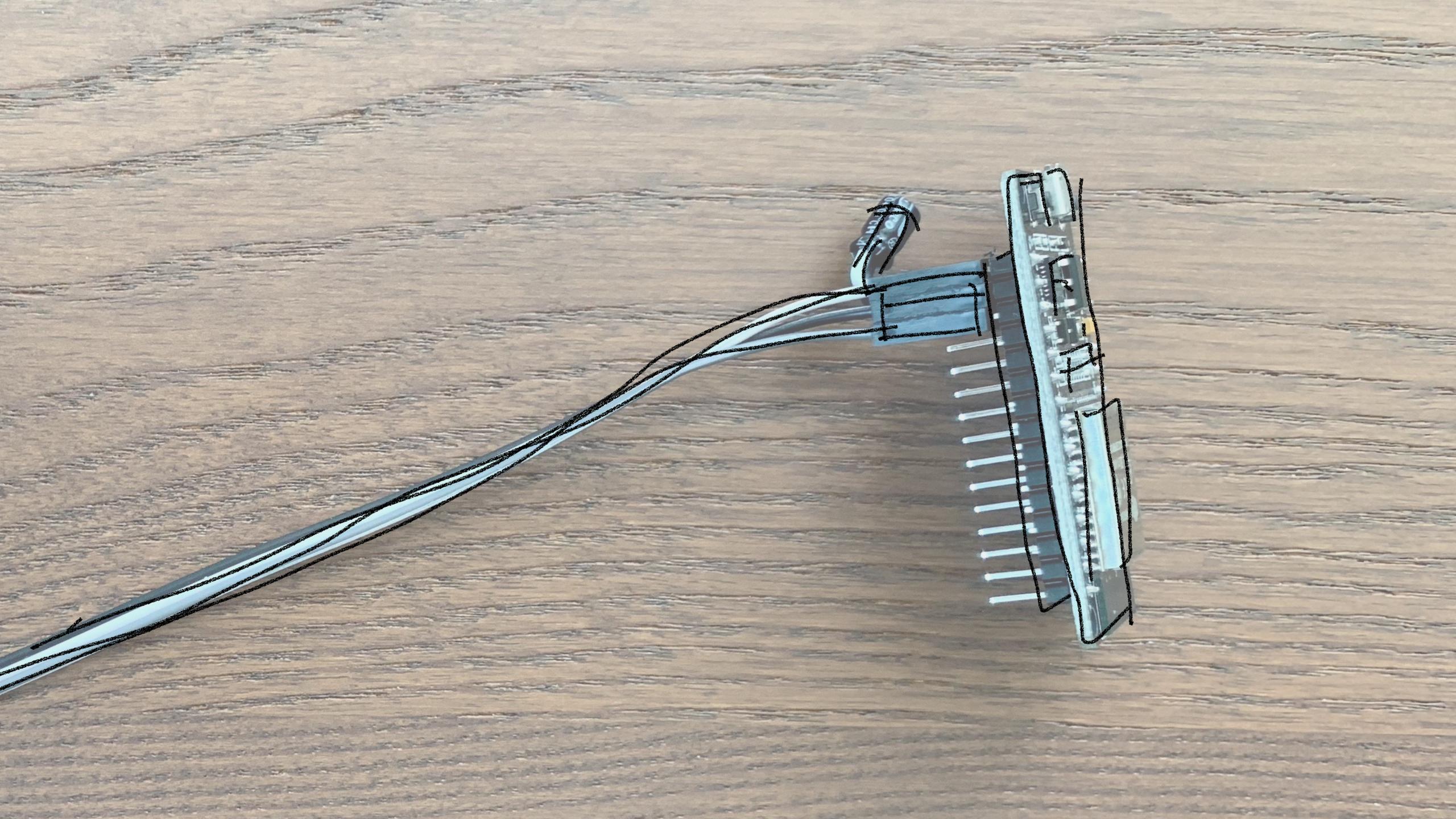


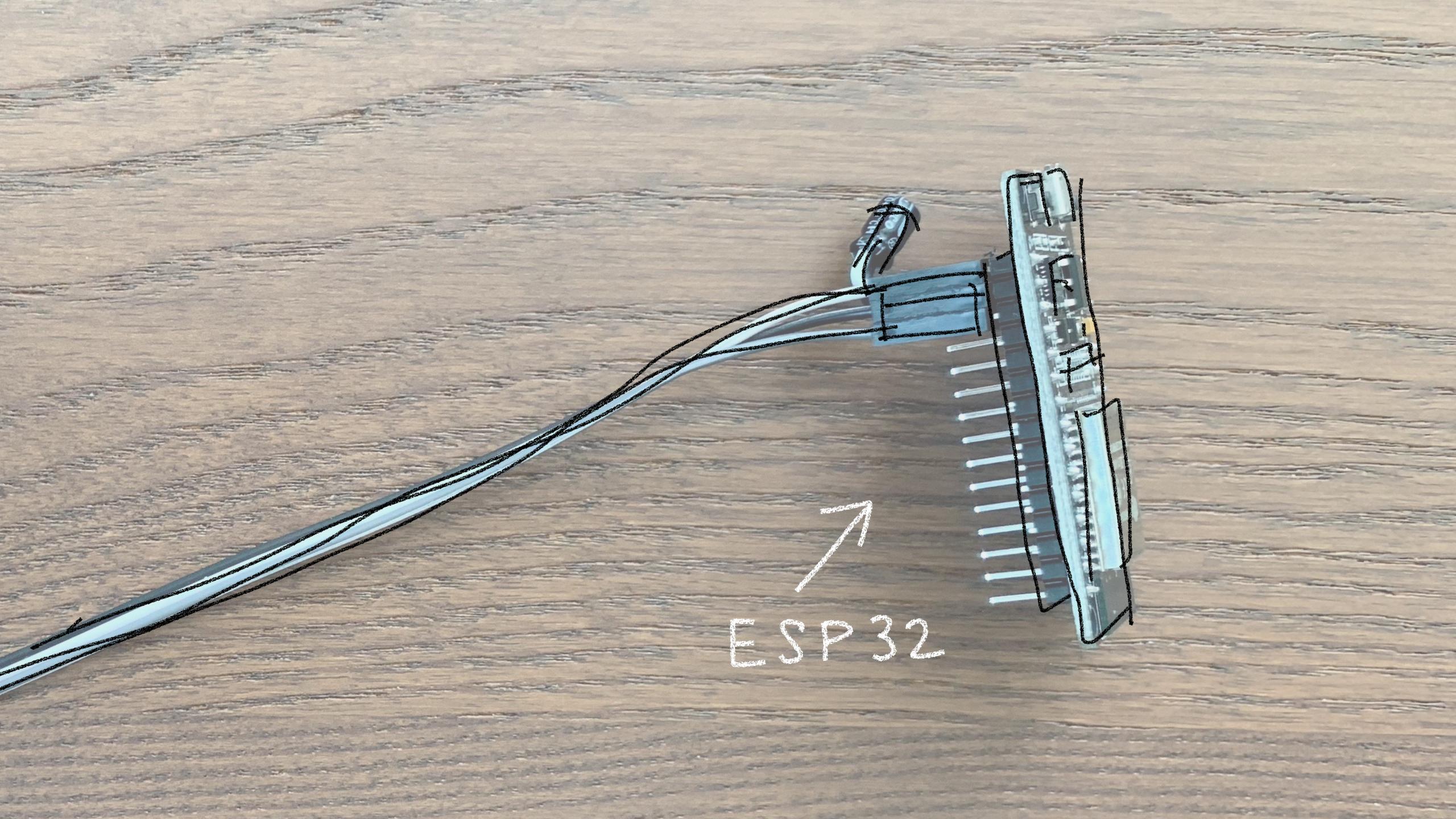
Connected lightbulb











Remote controlled car

