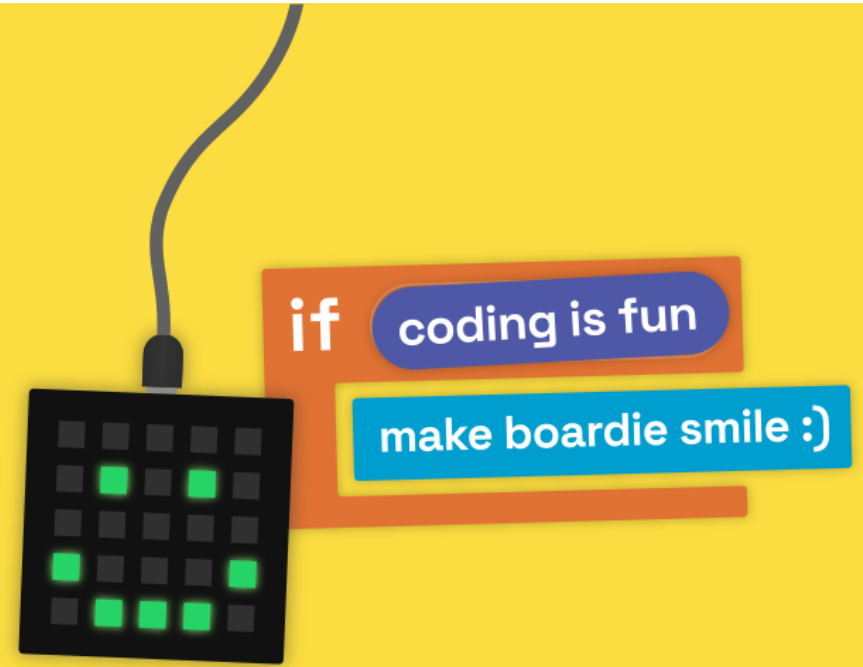




MicroBlocks



DO A LOT WITH A FEW
SIMPLE COMMANDS

FROM IDEA TO REALITY
IN NO TIME

**small, fast,
human-friendly**

SPEAKS YOUR LANGUAGE



<https://microblocks.fun/>



MicroBlocks

WIE EN WAT BEN IK...



PETER MATHIJSSSEN

VERPLEEGKUNDIGE

LID MICROBLOCKS
TEAM

APP INVENTOR
POWER USER

NIEUWSGIERIG

OPEN SOURCE
GEBRUIKER

ECHTGENOOT
EN VADER

BLOCK-A-HOLIC

CODERDOJO
MENTOR & CHAMPION



MicroBlocks

JOHN MALONEY...

GPBLOCKS
JENS MÖNIG (SNAP!)
e.a.



SCRATCH

ETOYS

MICROBLOCKS
JENS MÖNIG EN
BERNAT ROMAGOSA

SQUEAK



MicroBlocks

GEBRUIKERSOMGEVING...

Language

- English
- Castellano
- Català
- Deutsch
- Français
- Galego
- Nederlands
- Türkçe

Select board type:

- microbit
- Calliope mini
- Citilab ED1
- M5Stack-Core
- ESP32
- ESP8266
- Datobot
- Mbits
- ELECFREAKS Pico:ed
- ELECFREAKS Wukong2040
- RP2040 (Pico or Pico-W)
- Adafruit Board
- MakerPort

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- over...
- update firmware op board
- toon geavanceerde blokken

Bestand

- Nieuw
- Open
- Open from board
- Bewaar

Data Graph [X]



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VEEL BLOKKEN...

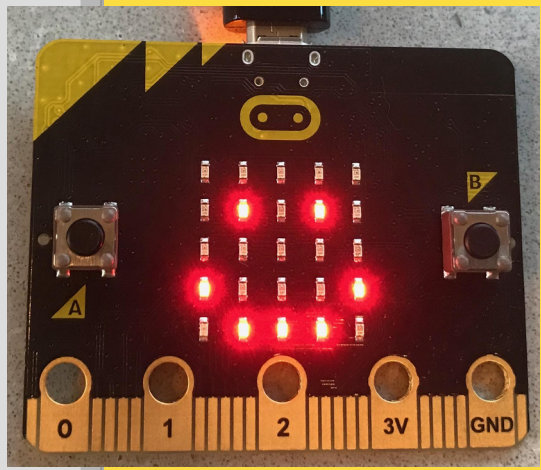
The image displays a wide variety of MicroBlocks code blocks, categorized by color and function:

- Variables and Lists (Pink blocks):** item 1 van Rosa, lengte van Rosa, voeg micro blocks samen, lijst kat, voeg vis toe aan lijst, vervang item 1 van lijst door 10, verwijder item 1 van lijst, vind a in kat, kopieer lachen van 2, splits A,B,C door , voeg items van lijst samen, unicode 2 van kat, tekst van unicode verander met 65, initialiseer lokaal var naar 0.
- Control Flow (Orange blocks):** wanneer gestart, wanneer knop A wordt ingedrukt, herhaal, herhaal 10, wacht 500 millisecon., als, wanneer, wacht tot, terug 0.
- Mathematics (Green blocks):** 10 + 2, 10 - 2, 10 x 2, 10 / 2, 10 modulo 2, absolute waarde van -10, min 1 2, max 1 2, < 4, <= 4, 3 = 4, 3 ≠ 4, 3 >= 4, 3 > 4.
- Hardware Control (Blue blocks):** maak gebruiker LED, zeg 123, grafiek 100, lees digitale pin 1, lees analoge pin 1, maak digitale pin 1, maak pin 1 1023, analoge pinnen, digitale pinnen.
- Input/Output (Purple blocks):** knop A, knop B, timer, timer resetten, milliseconden, microseconden, board type, connected to IDE.



MicroBlocks

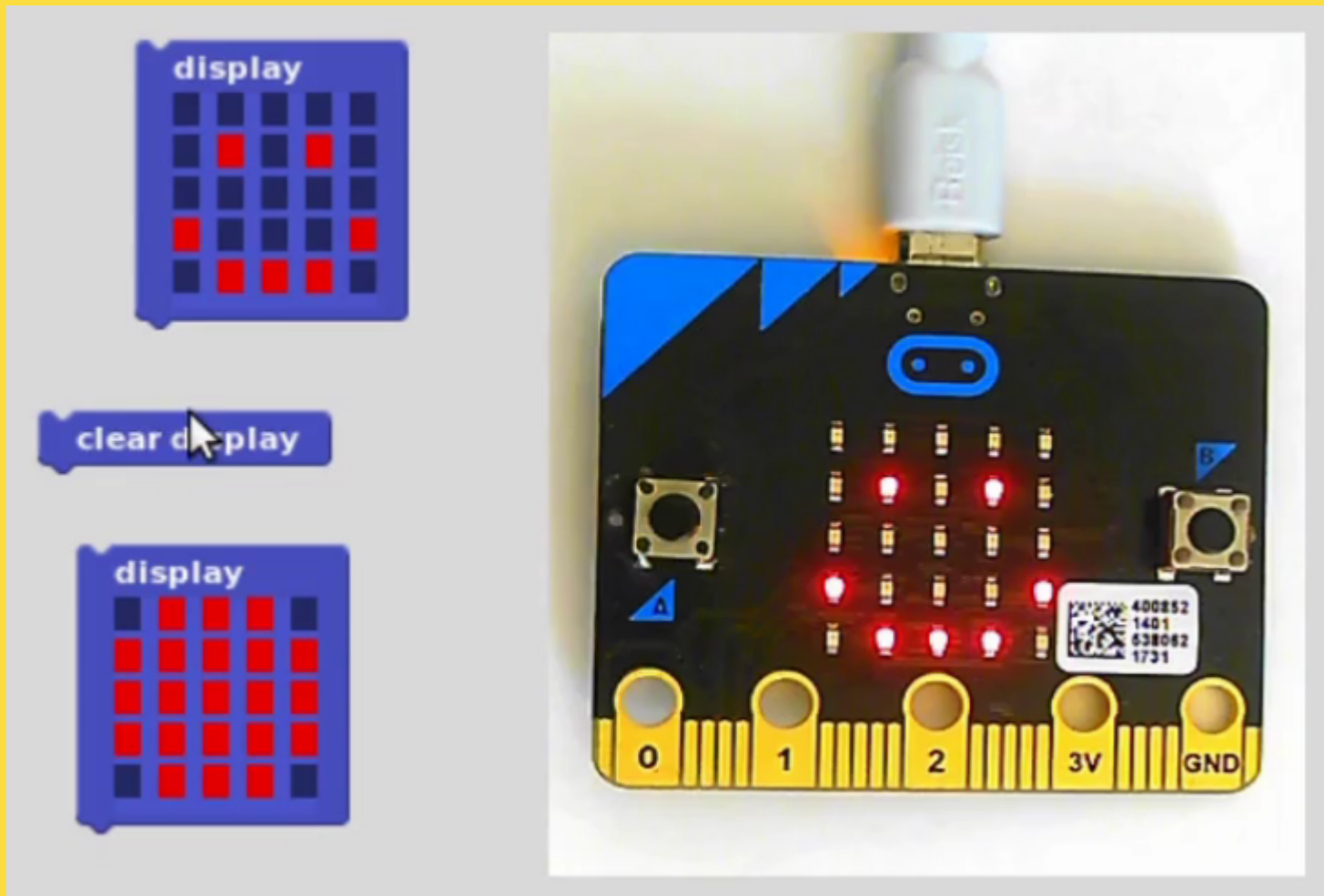
DRAG & DROP...





MicroBlocks

LIVE PROGRAMMAREN...





MicroBlocks

AUTONOOM UITVOEREN...

when button **A** pressed

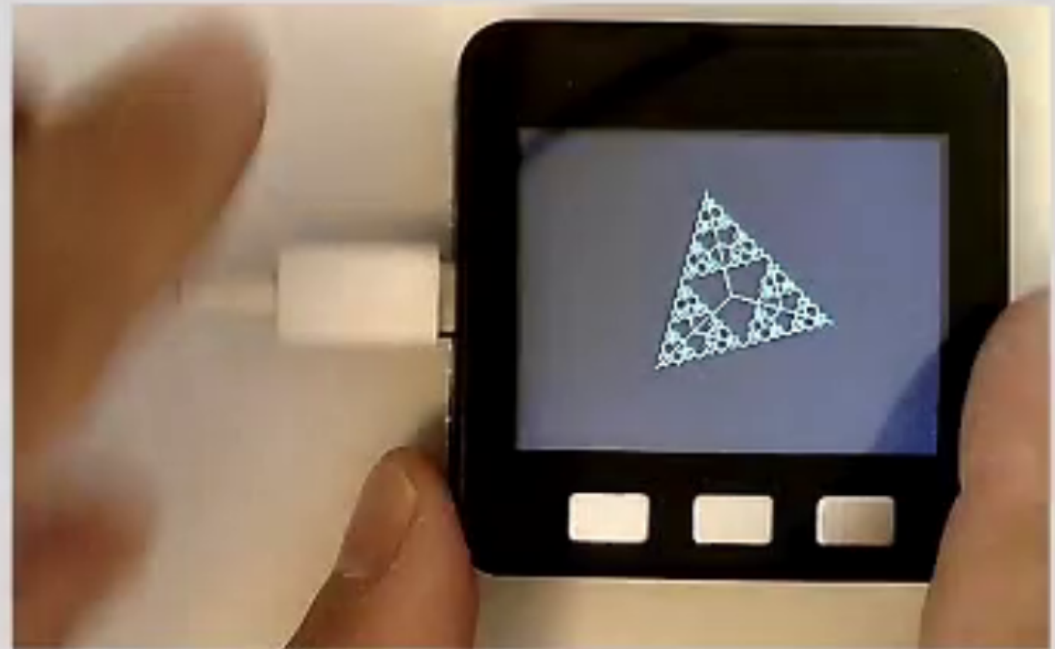
clear display

go to x **0** y **0**

turn **15** degrees

set pen to random color

cross fractal sized **80**



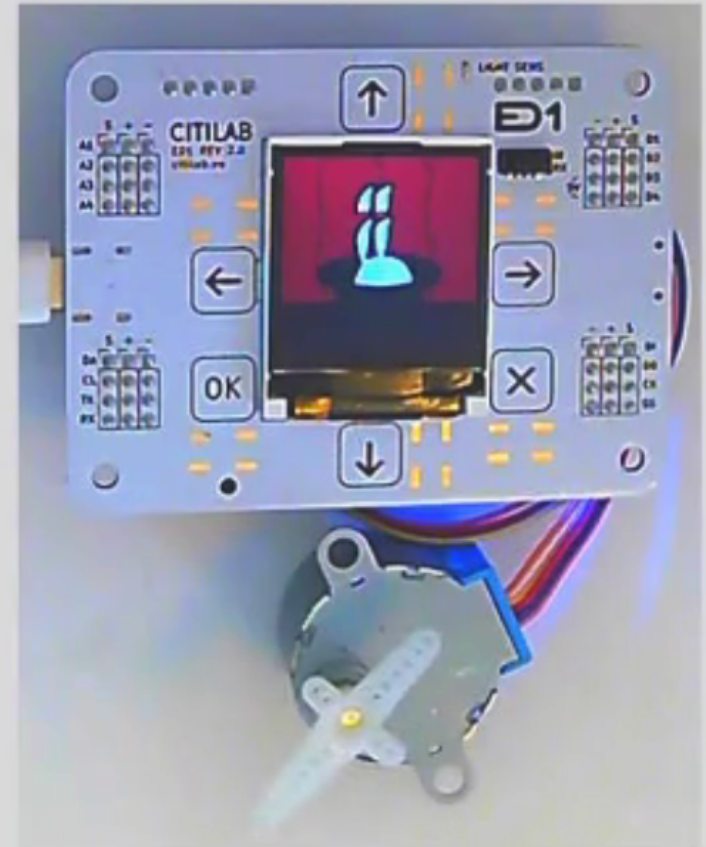


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PARALLEL PROGRAMMEREN...

```
forever
  for i in list 1 2 3 2
    display BMP file join magic- i .bmp
```

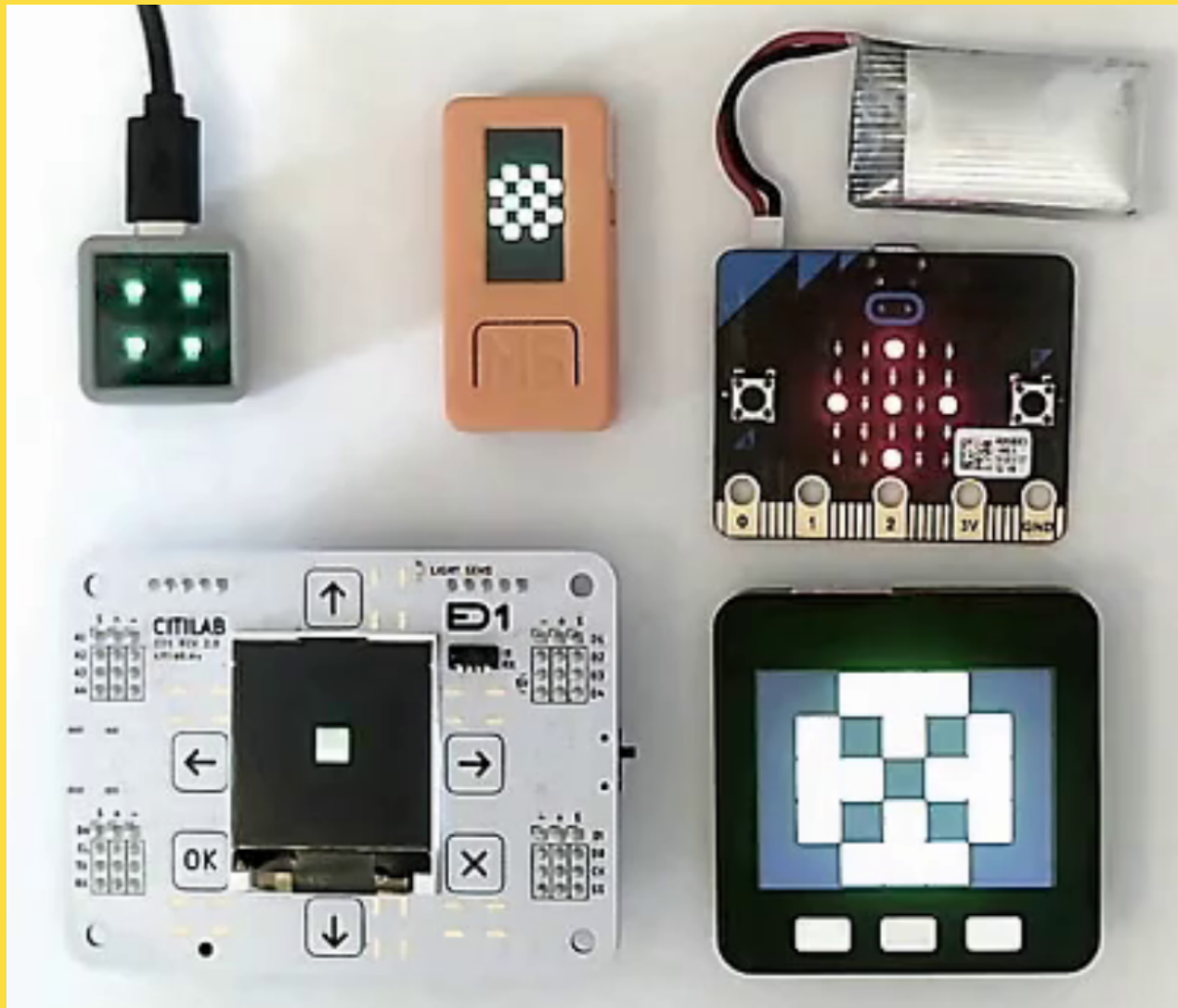
```
forever
  move motor 1 angle -90 °
  move motor 1 angle 90 °
```





MicroBlocks

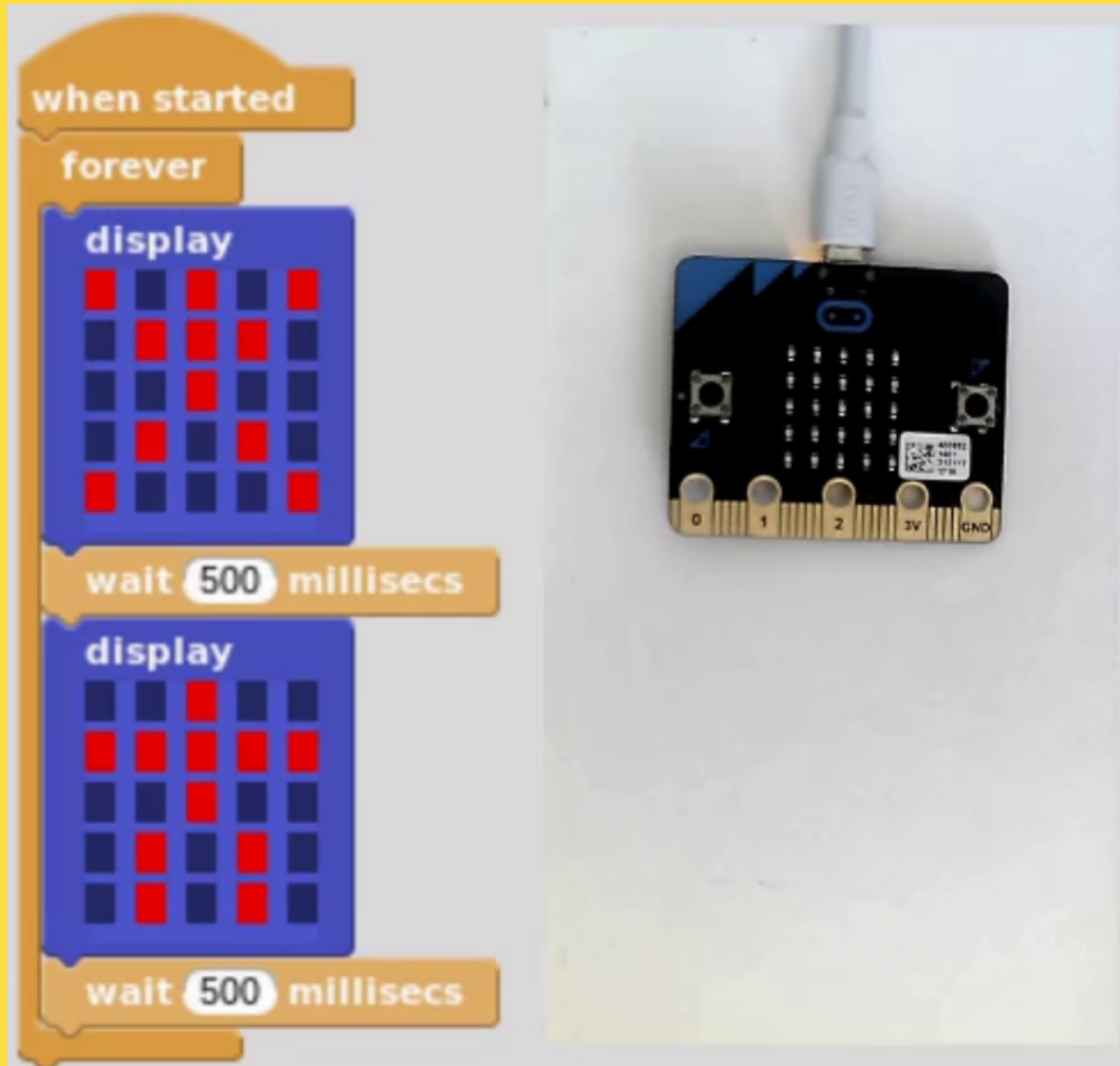
OVERDRAAGBAAR...





MicroBlocks

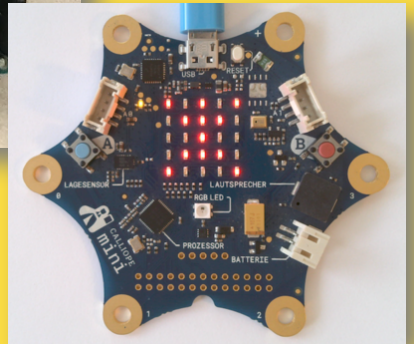
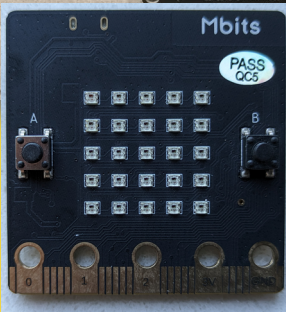
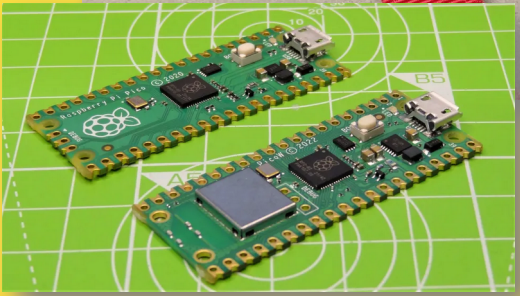
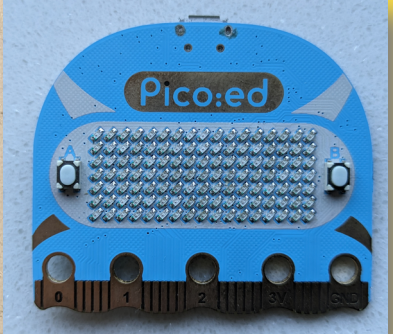
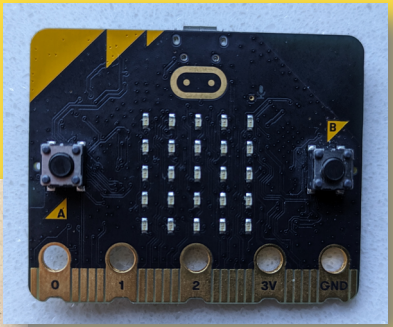
TERUG LEZEN...





MicroBlocks

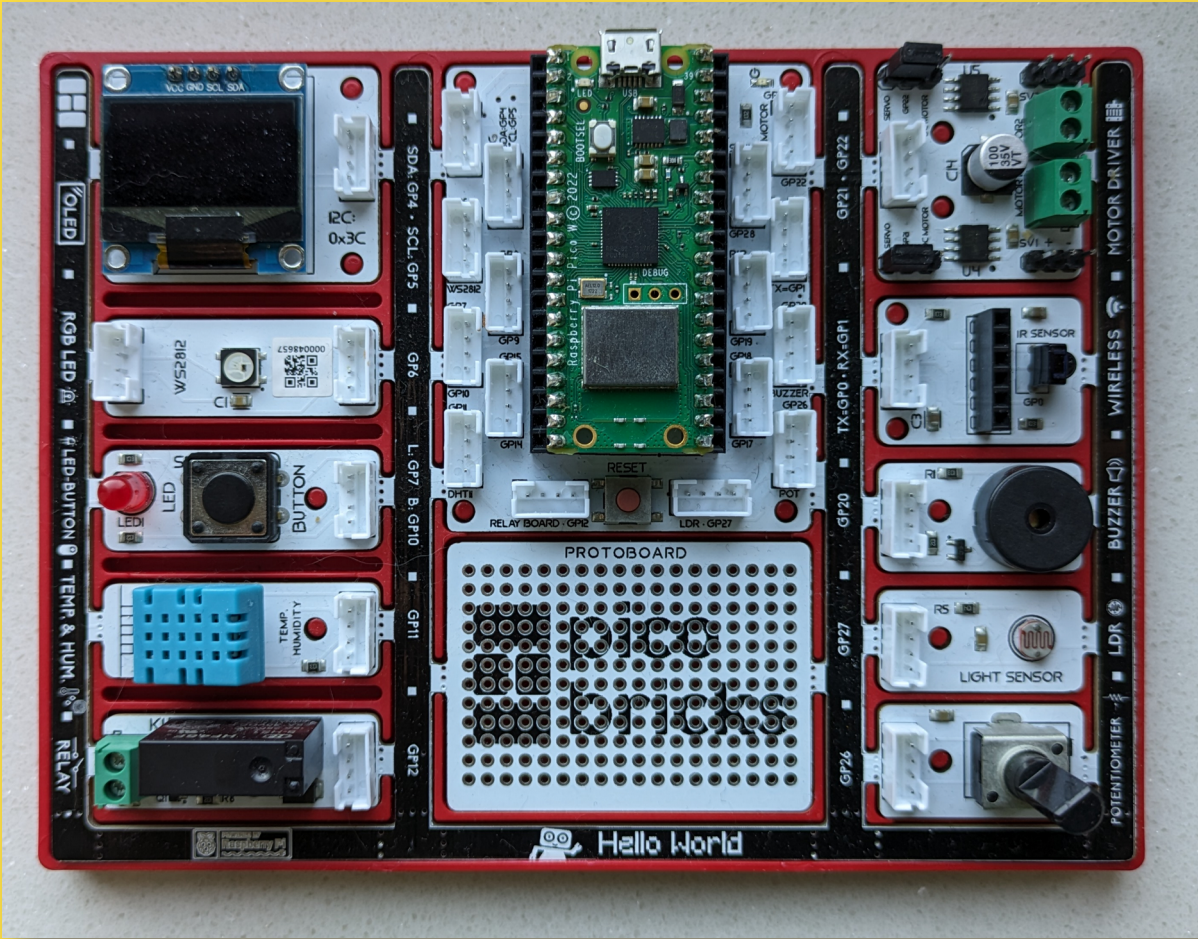
VEEL KEUZE...





MicroBlocks

NOG MEER KEUZE...

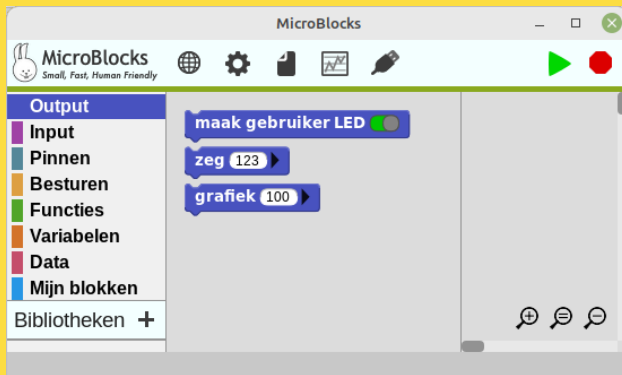




MicroBlocks

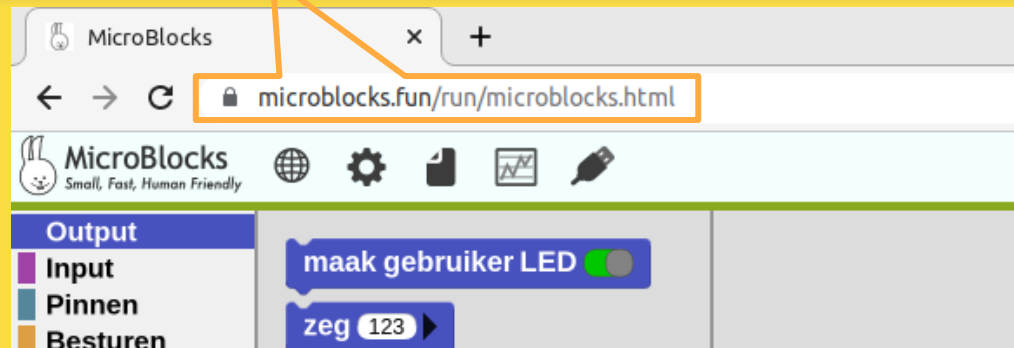
Download & installeer MicroBlocks
<https://microblocks.fun/download>

10 MB!



- ↓ Windows
- ↓ Mac OS
- ↓ Raspberry Pi (Raspbian)
- ↓ Linux (64 bit)
- ↓ Linux (32 bit)

Er is ook een browsersversie beschikbaar voor Edge en Chrome!
<https://microblocks.fun/run/microblocks.html>





MicroBlocks **LEARN**

LEARN

MicroBlocks

<https://learn.microblocks.fun/en/index>
<https://wiki.microblocks.fun/en/home>
<https://petermathijssen.nl/>
<https://discord.gg/TCpHYbcvkS>

DISCORD





MicroBlocks

VRAGEN?