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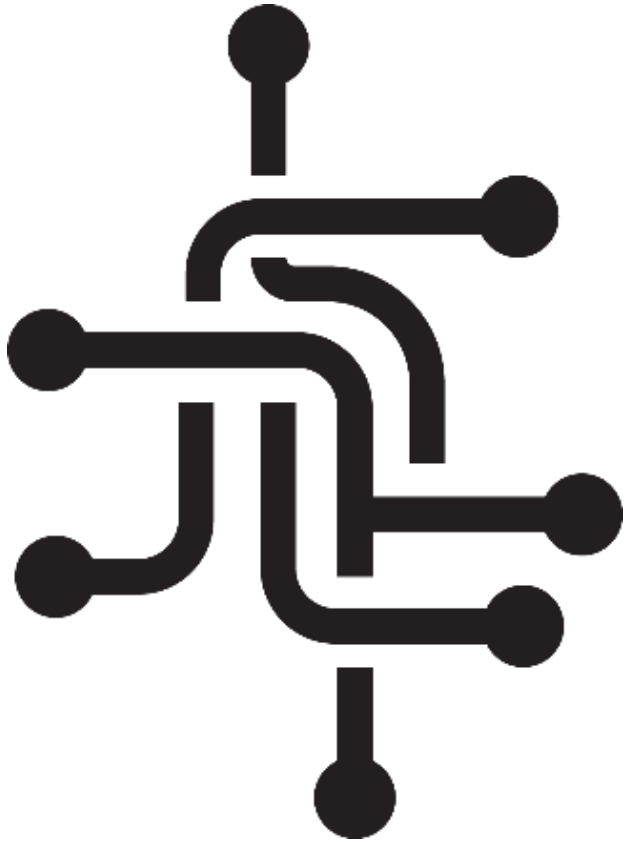
shaping future innovators

Leren programmeren met de micro:bit

rvo-society

SCivil
Citizen Science
Vlaanderen



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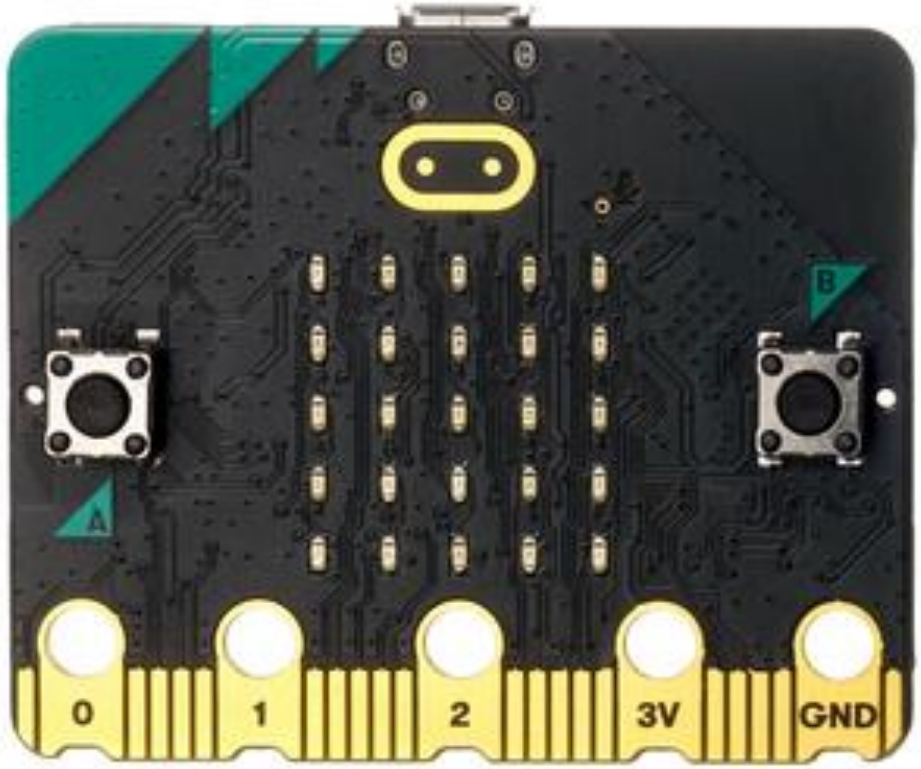
Waarom de micro:bit?



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Wat bedoelen we met deze termen?

- **Programmeren?**
- **Programma?**
- **Coderen?**
- **Code?**

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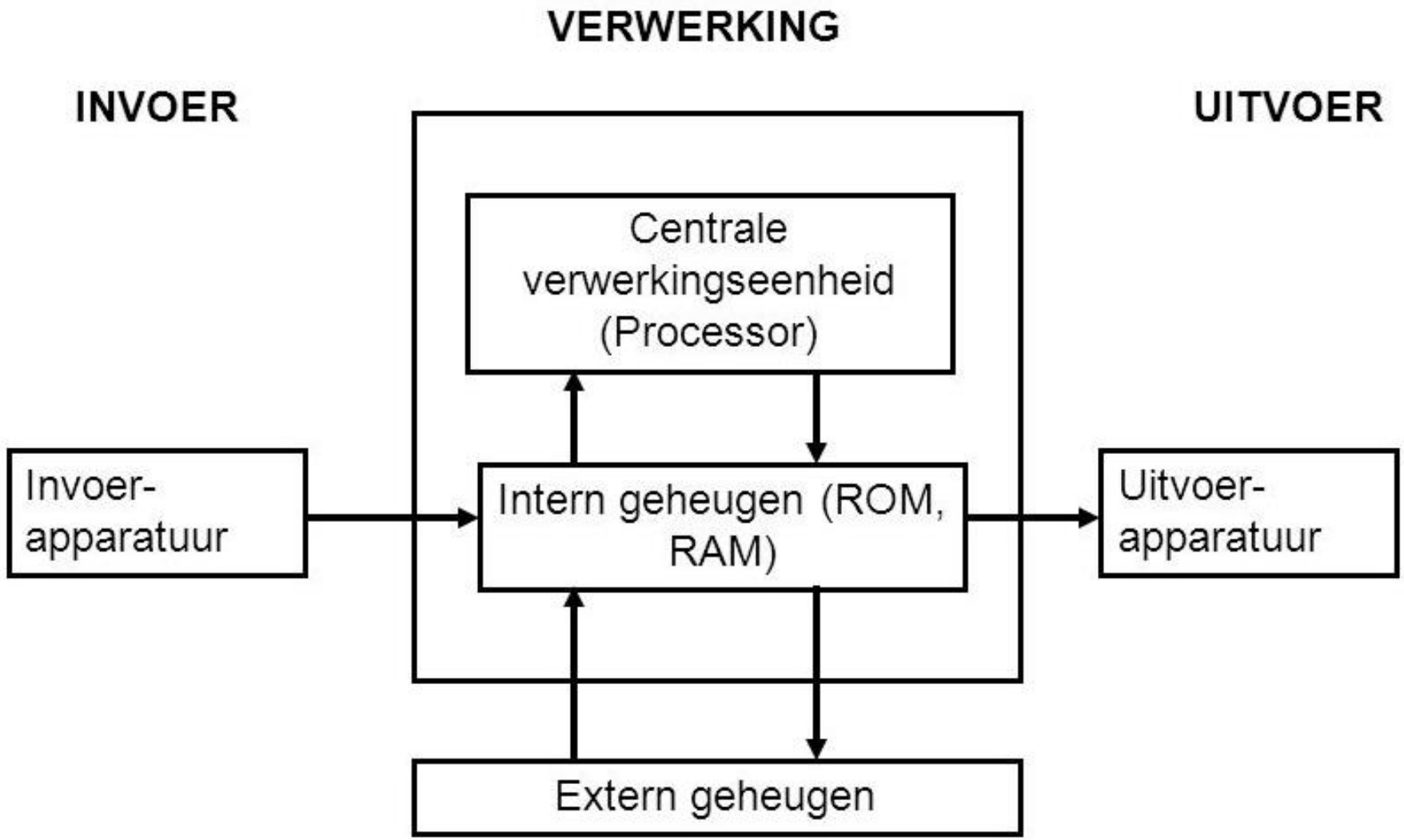
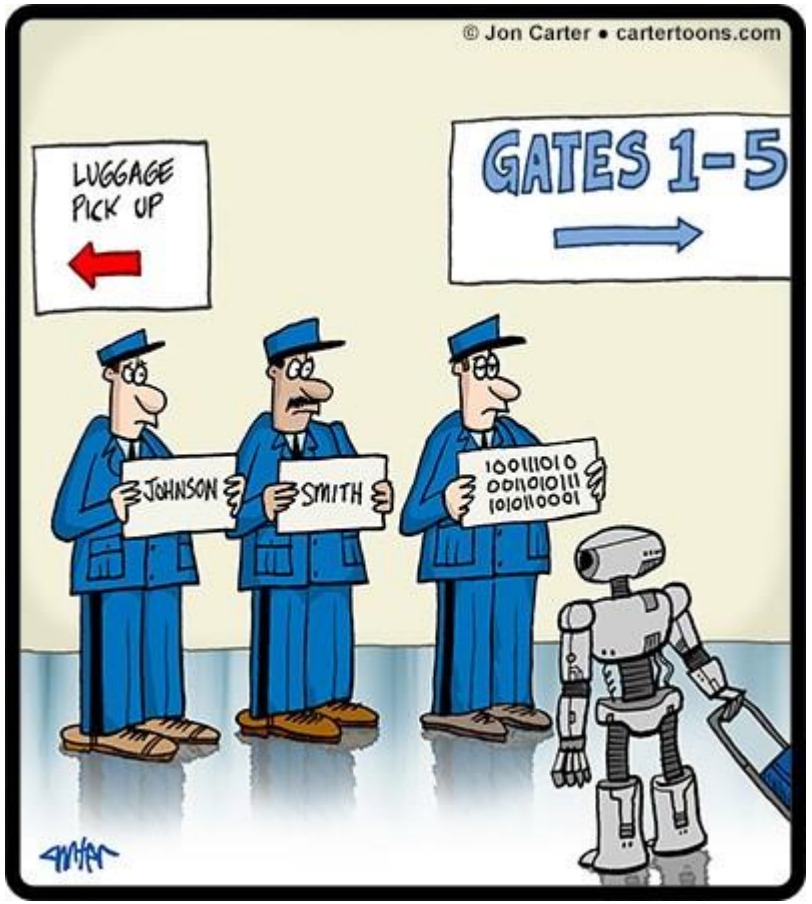
De computerconfiguratie



Welk signaal komt binnen bij invoer?
Welk signaal gaat naar buiten bij uitvoer?

- **1001110101101**
- **Binaire code**



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Computertaal

- **Welke talen begrijp jij?**
- **Welke talen begrijpt een computer?**

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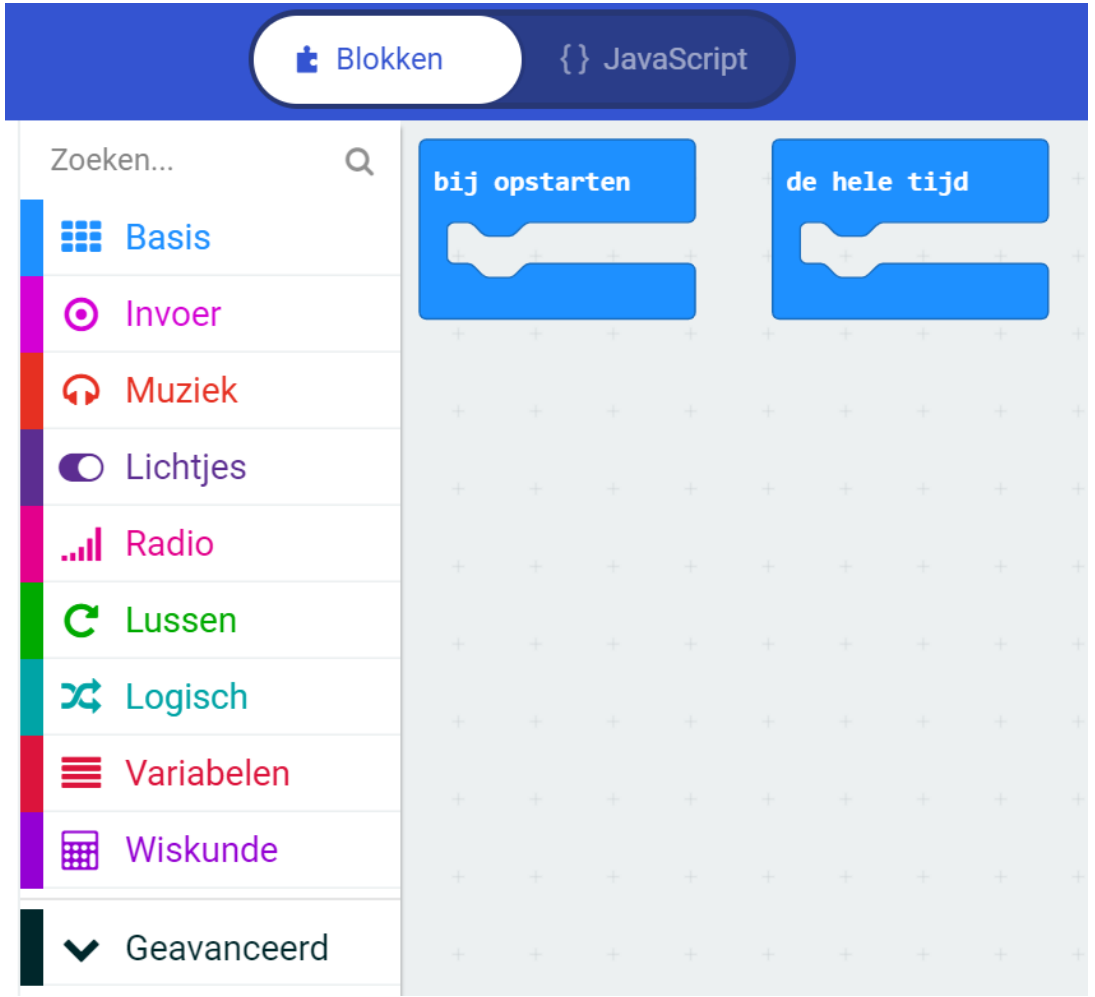
Overkoepelende taal?



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Leren programmeren

Code.org

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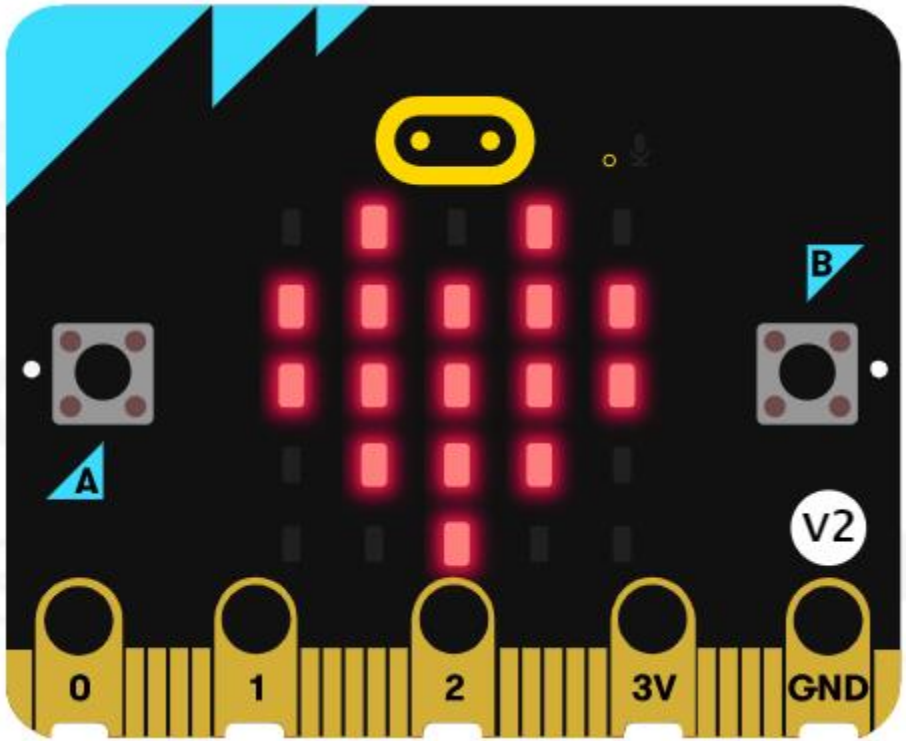
De micro:bit



Microsoft Makecode

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Wat kan deze allemaal?

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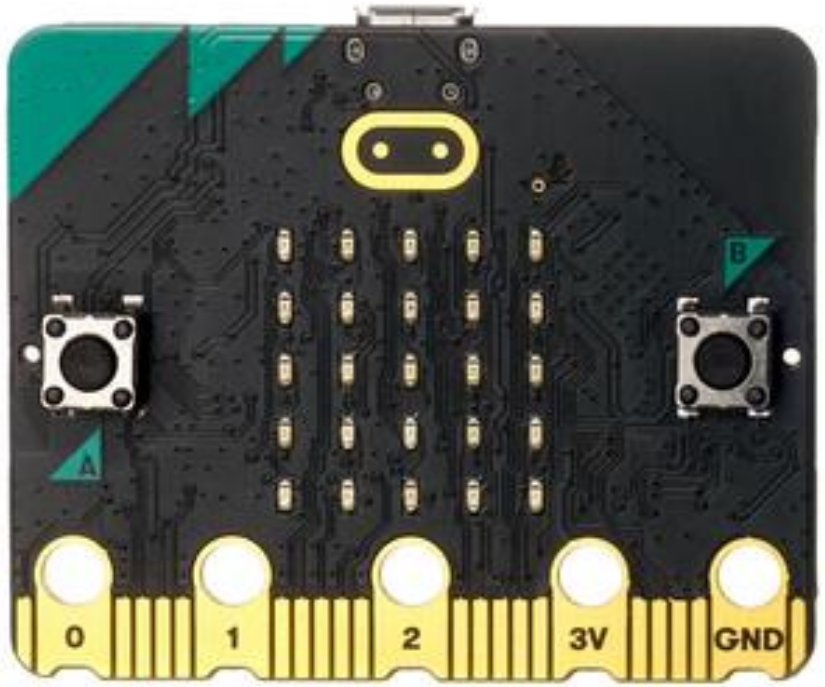
Wistje-datje

- Ada Lovelace
- Beschrijving “analystische machine”
- 1843

Invoer – Uitvoer micro:bit?



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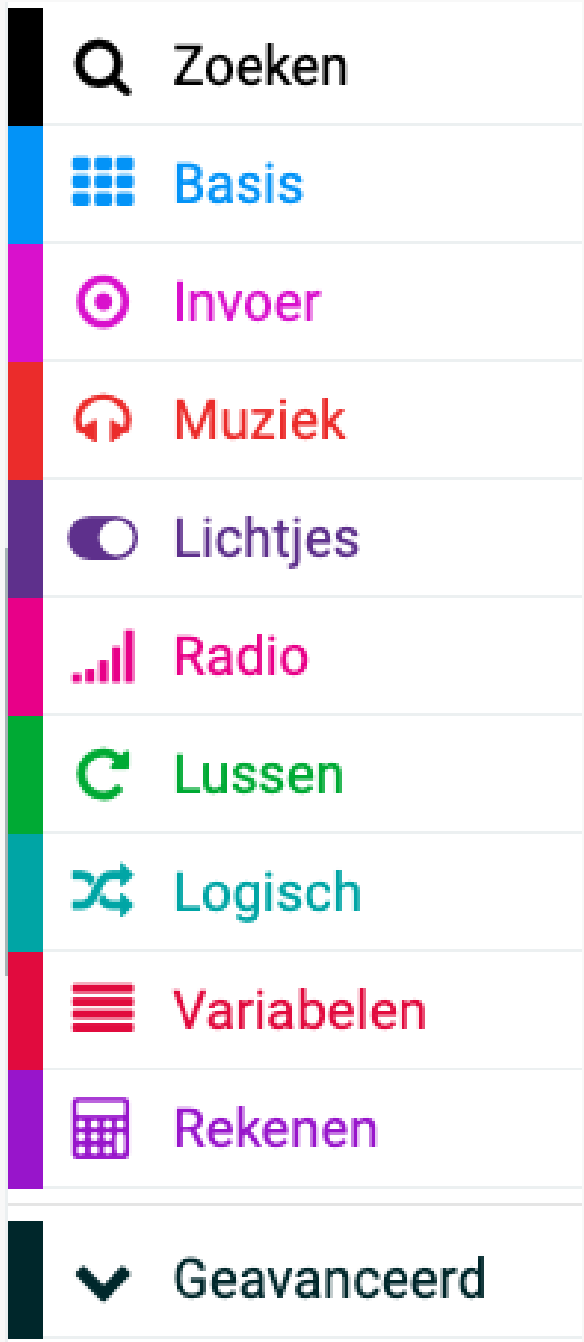
Programmeer blokken makecode



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(uitbreiding)mogelijkhedens STEMmige opdrachten..

- integratie in eigen projecten
- fietsveiligheid
- zelfrijdende wagen
- (onderdelen) weerstation
- werkstukken automatiseren
- metingen met de geïntegreerde sensoren
- ...

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Gebruik de tutorials van makecode zelf voor de snelle lln of voor b-stroom (je kan pas naar volgende stap gaan als je alles hebt uitgevoerd)

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Handige links (classroom, projecten, lessen van microbit zelf)

- https://microbit.org/get-started/user-guide/features-in-depth/
- https://microbit.org/projects/
- https://microbit.org/lessons/
- https://classroom.microbit.org/
- https://makecode.microbit.org/offline-app

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Makecode tutorial

- https://makecode.com/tutorial-tool

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Aankoop

- https://www.microbit.store/product-categorie/microbit/

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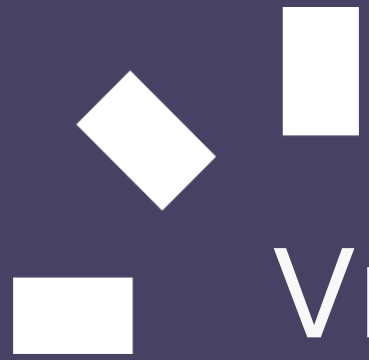

Vragen? Opmerkingen?

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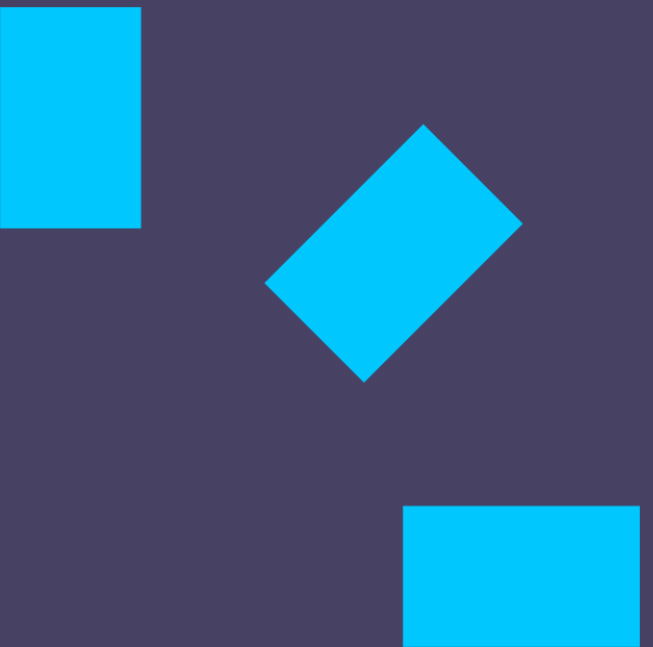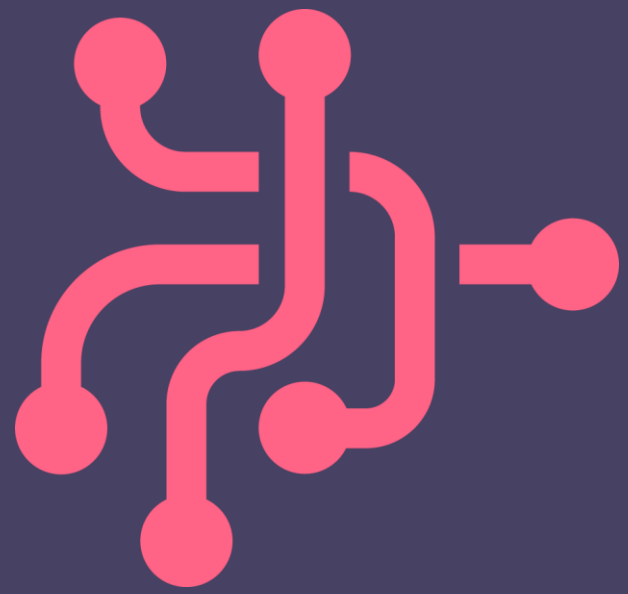
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