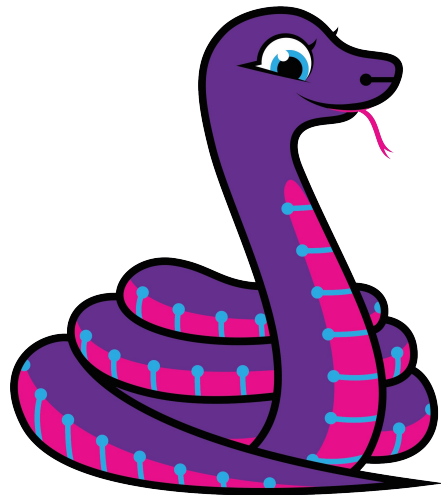# Simplicity and Fun: Learning with CircuitPython

Kattni Rembor

Twitter: @kattni
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GitHub: kattni
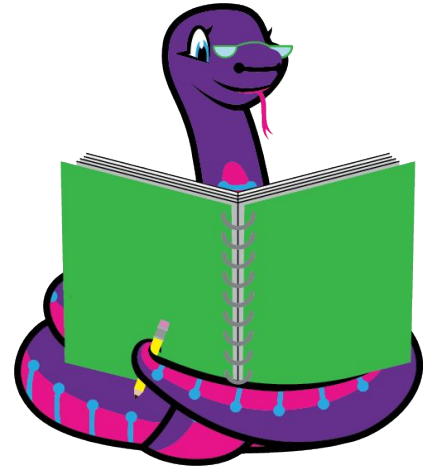
What is CircuitPython?

- It's Python
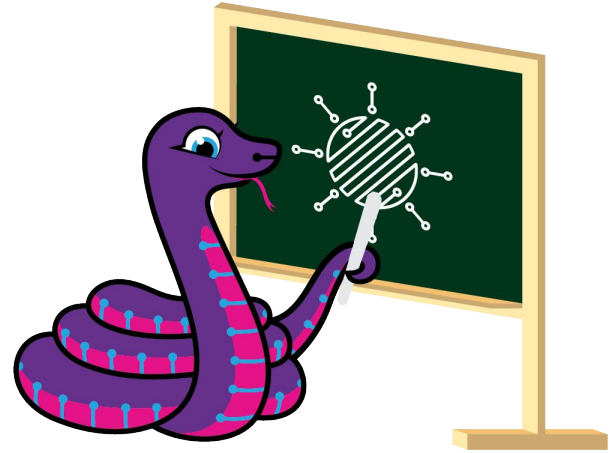
- Runs on microcontrollers

- Open source software

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Education Considerations

- Development always considers beginners

- Lowers the barrier for entry

- Getting started is simple

- The "First Five Minutes"

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Educator Demographics

- Previous teaching experience

- Pre-CircuitPython content

- Student age and education level

- Learning CircuitPython to teach it
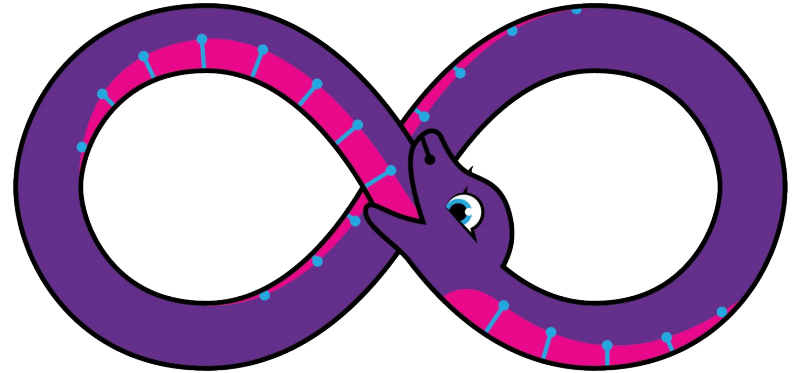
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Education Experience

- Teaching has been a positive experience.
- The choice to switch to CircuitPython
  - Simple to use
  - It's Python
  - Tangible, physical world manipulation

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CircuitPython Ecosystem

- Adafruit Learn System
- Adafruit Forums
- GitHub
- API documentation
- CircuitPython community

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CircuitPython Community

- Adafruit Discord

  - #help-with-circuitpython channel

  - #circuitpython-dev channel

Student Engagement

- Ease and difficulty level

- Tangible results

- Wearability

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Skill-Building

- Not all students will continue to computer science

- Learning CircuitPython requires building various skills

- Allows for teaching important skills for the future

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Resource Links

- Talk content: https://github.com/kattni/PyOhio2022

- Adafruit Learn System: https://learn.adafruit.com

- Adafruit Forums: https://forums.adafruit.com

- Core Documentation: https://docs.circuitpython.org

- Adafruit GitHub: https://github.com/adafruit

- Adafruit Discord server: https://adafru.it/discord

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Thank you!

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Special thanks to the educators interviewed:
John Gallaugher, Nicholas Tollervy, Sean Tibor

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