

# Getting started with CircuitPython

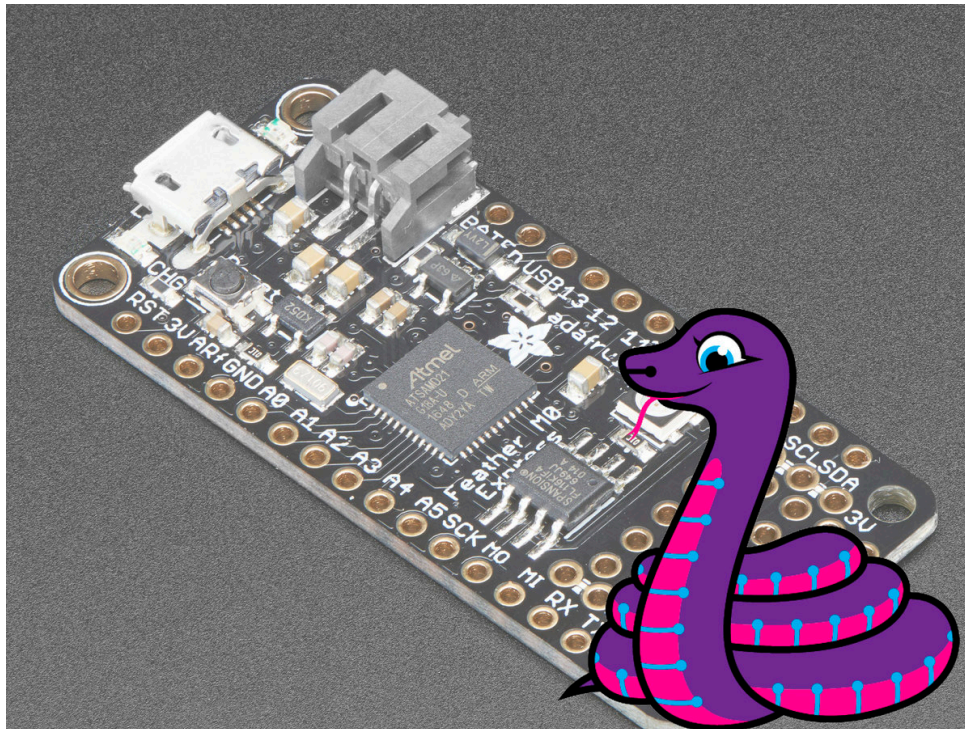
Flash talk @ PyData 4-12-2018

Robin Cole

<https://github.com/robmarkcole>

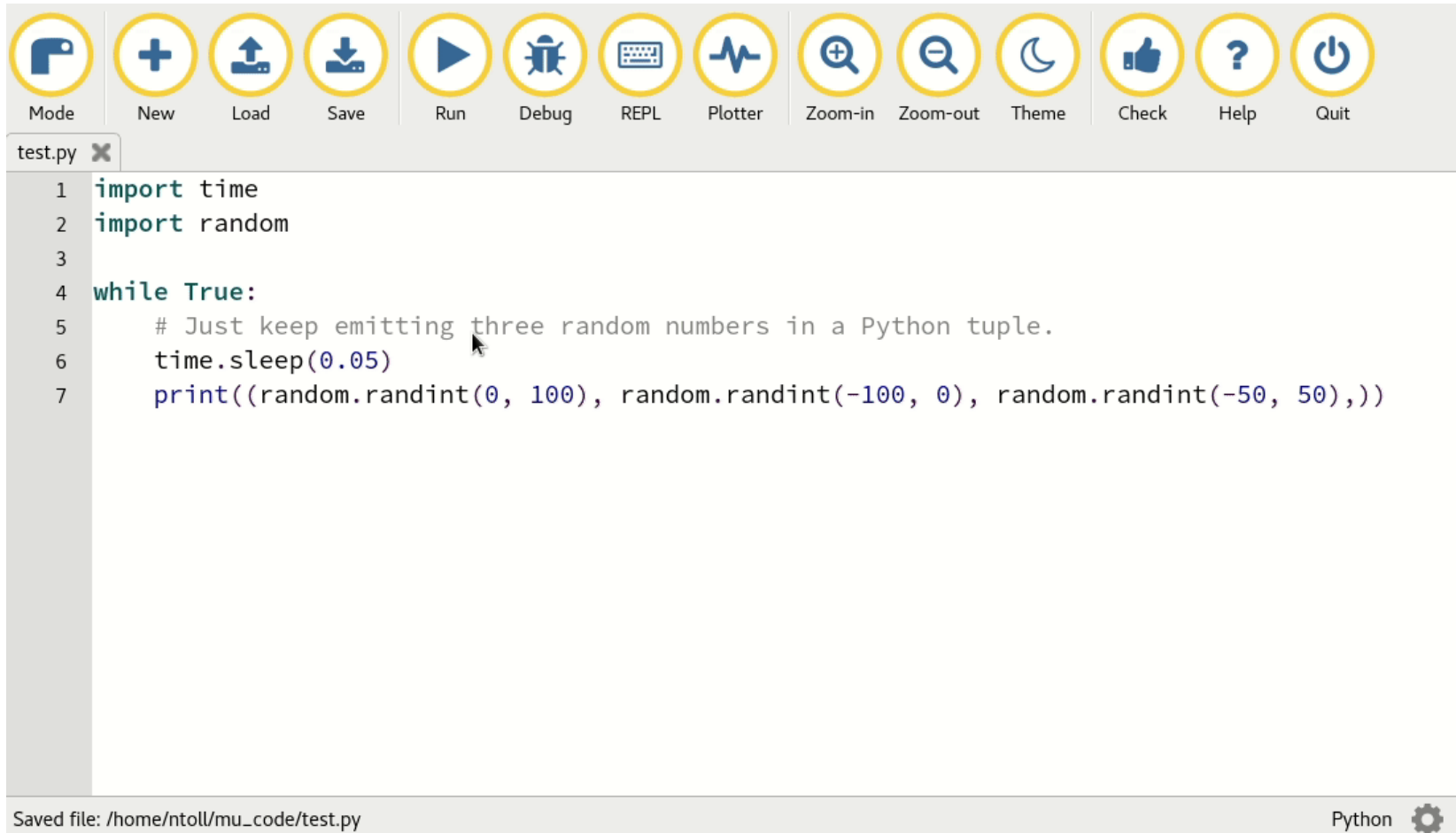
# CircuitPython

- ▶ CircuitPython -> Python 3 on single board computer
- ▶ Beginner friendly -> boards show as USB drive
- ▶ Connect sensors and gather data



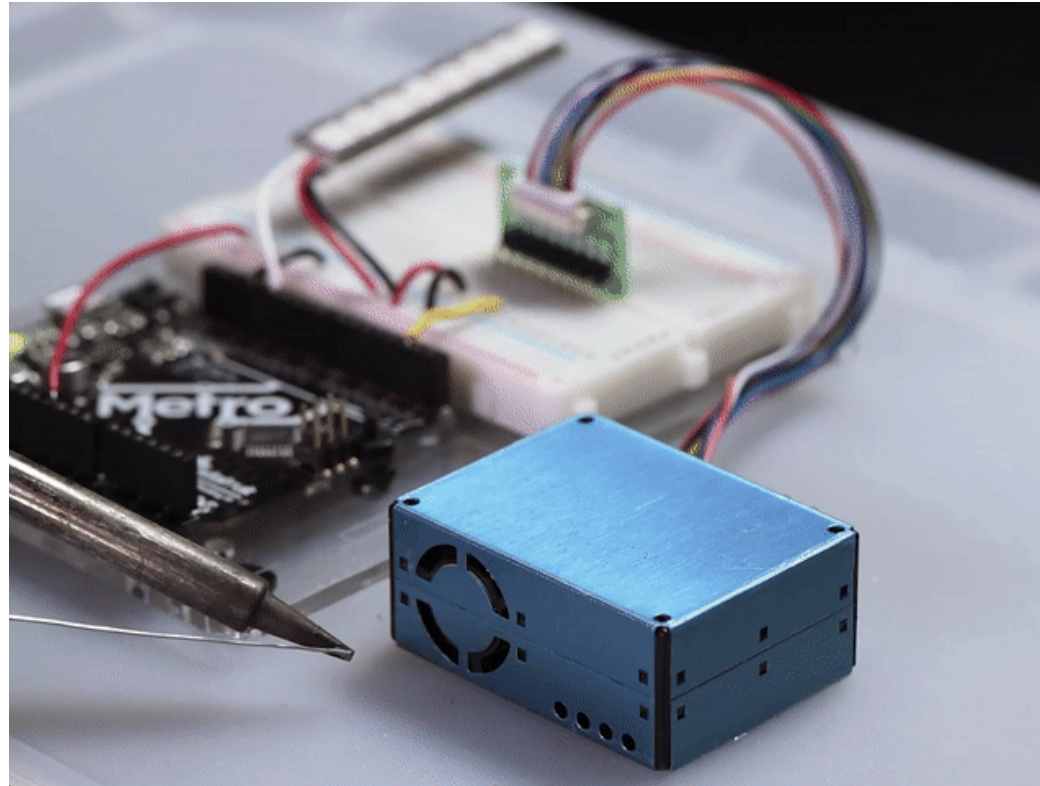
# Mu editor

- ▶ Beginner friendly editor -> <https://codewith.mu/>
- ▶ Plot streaming data



# Air quality project

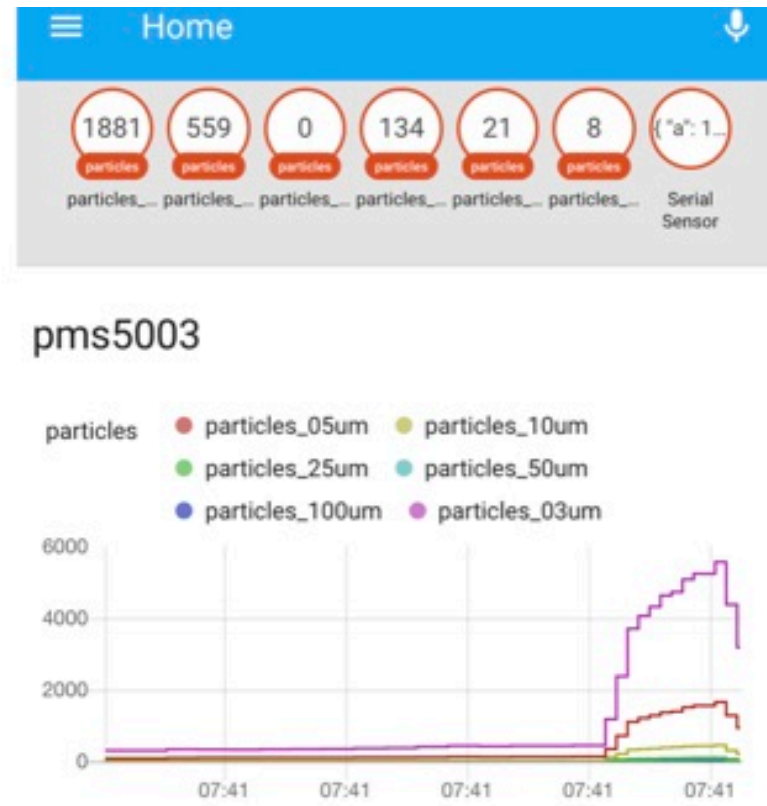
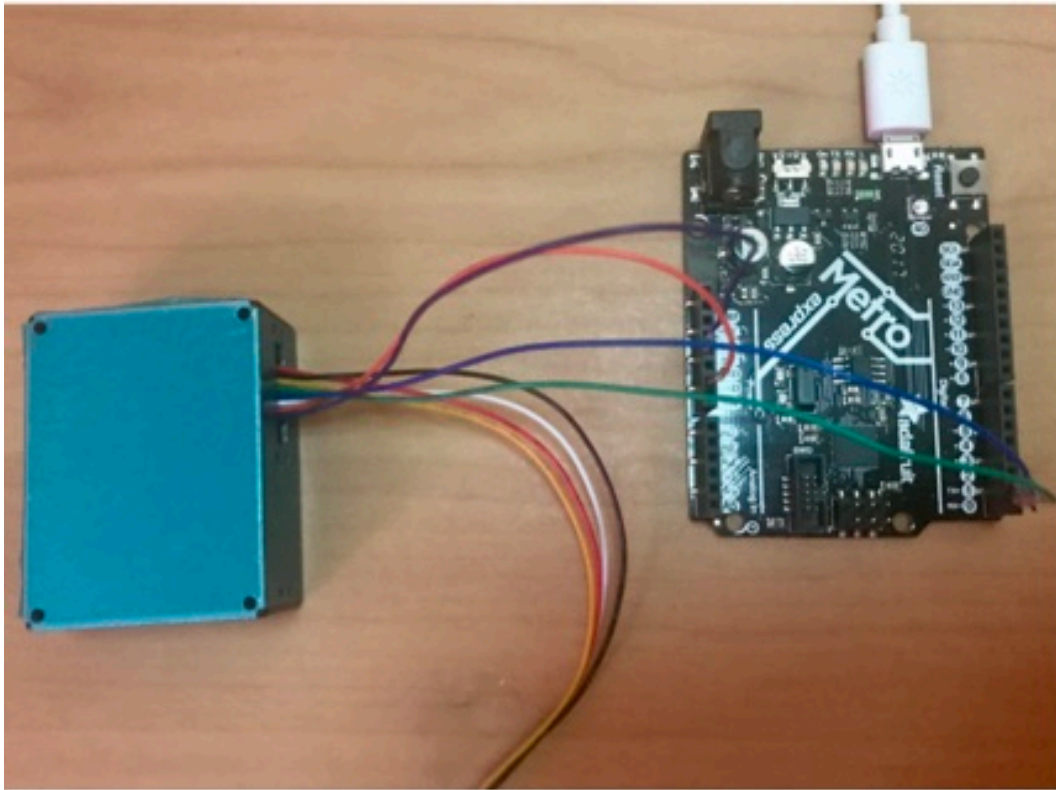
- ▶ Poor air quality is major contributor to ill health
- ▶ Develop simple air quality data logger



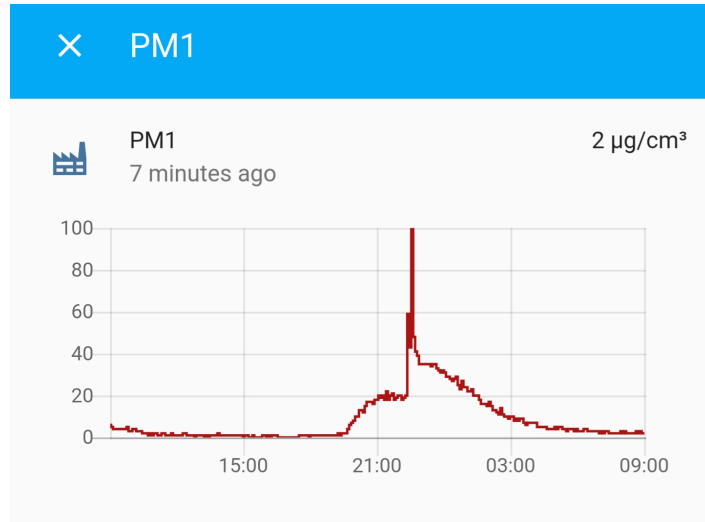


# CircuitPython air quality logger

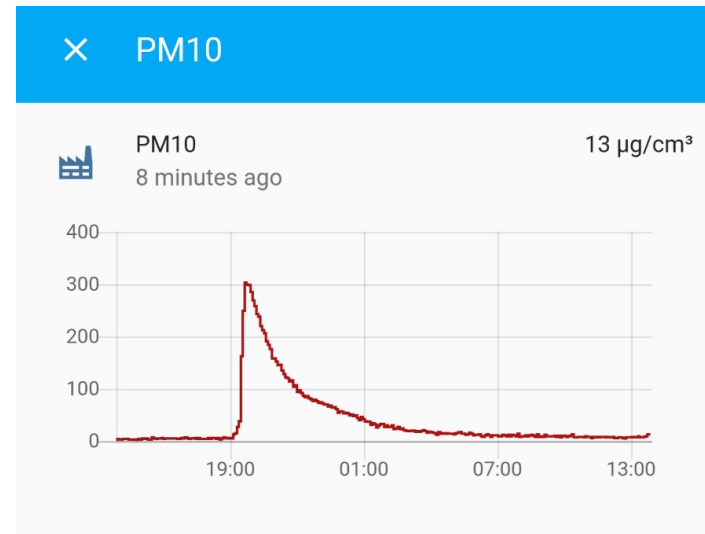
- ▶ Develop simple air quality data logger
- ▶ PM1, PM2.5 & PM10 particulates
- ▶ <https://github.com/robmarkcole/HASS-circuitpython-air-quality-sensor-node>



# Data



Solder



Sausage

# Future Work

- ▶ Get more people involved!
- ▶ Go wireless & low power
- ▶ Demo time..

