

Intro to Micropython

(part 2)

PyLadies Dublin June 18

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- Demonware for hosting, Ruth and Gemma especially
- Co-workers who participated in test runs of workshop material
- PyLadies organisers
- Attendees!



- Supports Python community in Ireland
- Runs monthly meetups and annual conference
- <https://python.ie/>
- <https://twitter.com/PythonIreland>

demonware

- <https://demonware.net/careers>
- Hiring Python developers!
- Internship programme
- Fun, challenging work!

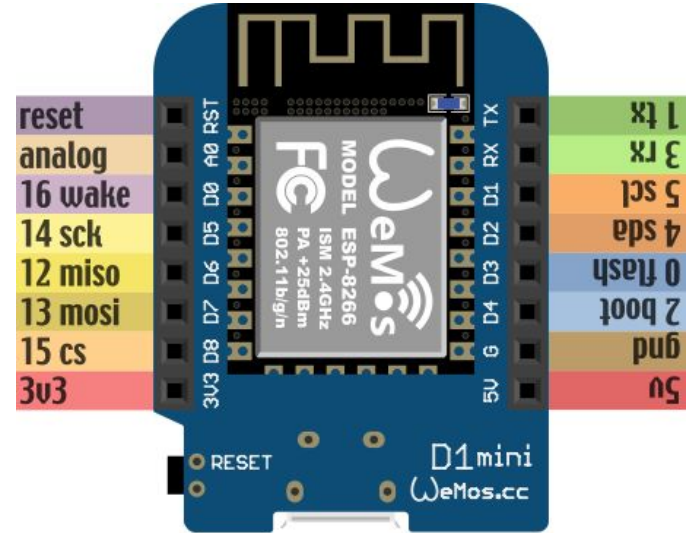


MicroPython

- [Kickstarted](#) in 2013 by Damien George
- “Micro Python is a lean and fast implementation of the Python programming language that is optimised to run on a microcontroller.”
- Aims to implement Python 3 interface and includes selection of core standard libraries
- Official Pyboard hardware based on the STM32F405 microcontroller
- Since ported to multiple microcontrollers, including esp8266

Hardware - Wemos/Lolin D1 Mini

- This workshop uses the [Lolin D1 mini](https://www.wemos.cc) board which is based on esp8266 microcontroller
- Lots of handy shields for adding sensors etc
- Can be used with Arduino platform, Micropython or compiled C
- **NB** Pin numbering does not match scheme in Micropython
- <https://www.wemos.cc> to find out more



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Workshop Process Notes

- <https://d1workshop.readthedocs.io/en/latest/>
- Keep Micropython library docs open for context
- **Always disconnect the board from power before adding or removing the shields or components.**
- No shutdown or halt necessary, just unplug either end
- There will be bugs and issues, please be patient
- **Read the material please!** Try asking others for help
- Have fun and explore!