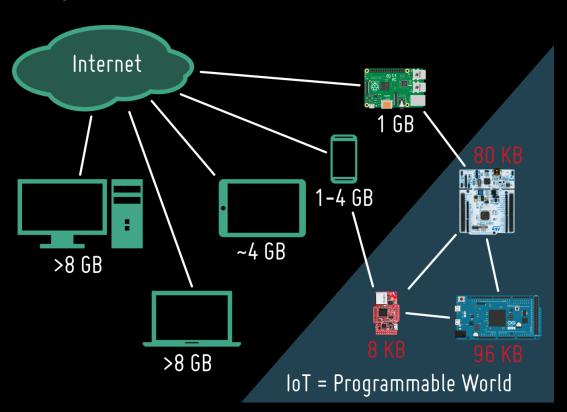


The friendly IoT OS

Martine Lenders



## Why?





## **RIOT** in a Nutshell

"If your device cannot run Linux, run RIOT!"

- Requires only a few kB of RAM/ROM
- Code once & run on heterogeneous IoT hardware
  - 8-bit (e.g. AVR)
  - 16-bit (e.g. MSP430)
  - 32-bit (e.g. ARM Cortex-M, MIPS)



## RIOT Fact Sheet

- μ-kernel-like architecture (for robustness)
- Modular design (for adaptivity)
- Tickless scheduler (for energy efficiency)
- Deterministic O(1) scheduling (for real-time capabilities)
- Low latency interrupt handling (for reactivity)
- Preemptive multi-threading & powerful IPC
- Efficient hardware abstraction
- Full featured, extendable network-stacks
- Peer-reviewed, LGPLv2.1-licensed code

