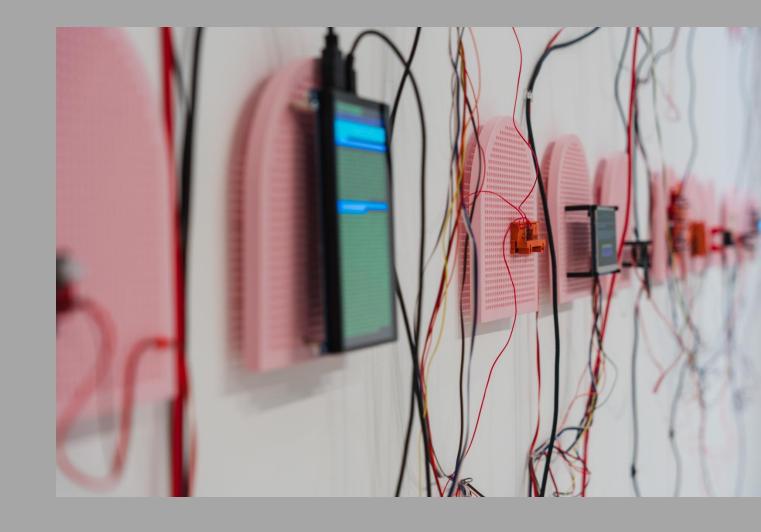




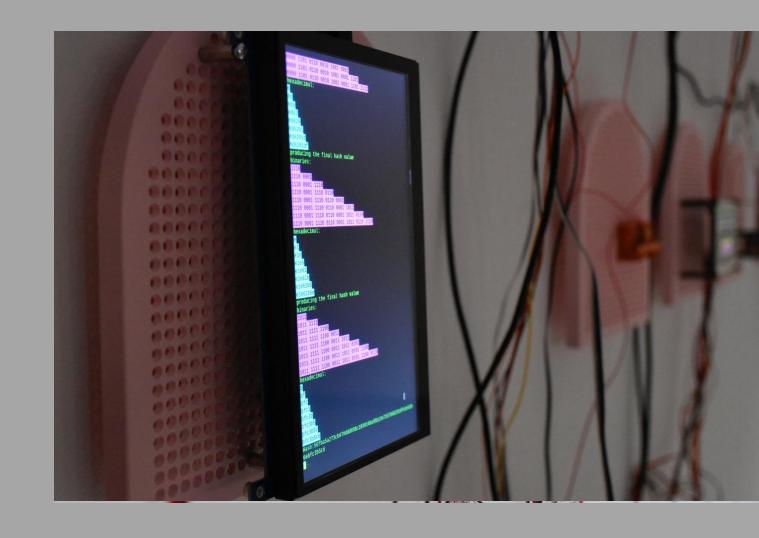
Critical Interface

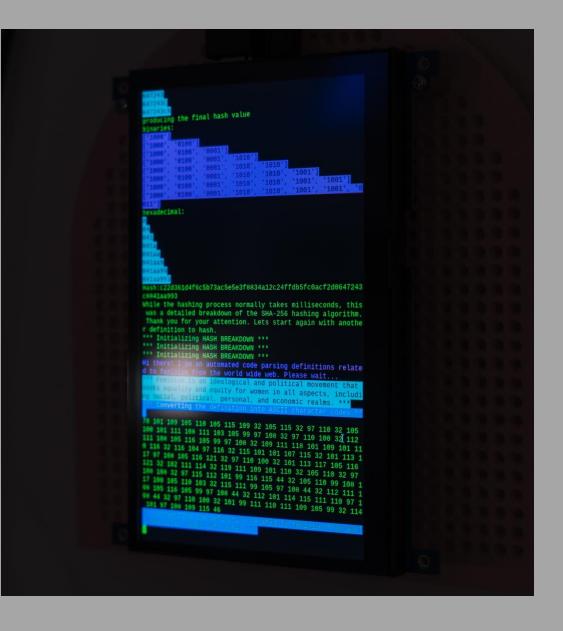
demystifying the SHA-256 hashing algorithm



Critique

towards mystifying, elitist, masculine narratives around blockchain

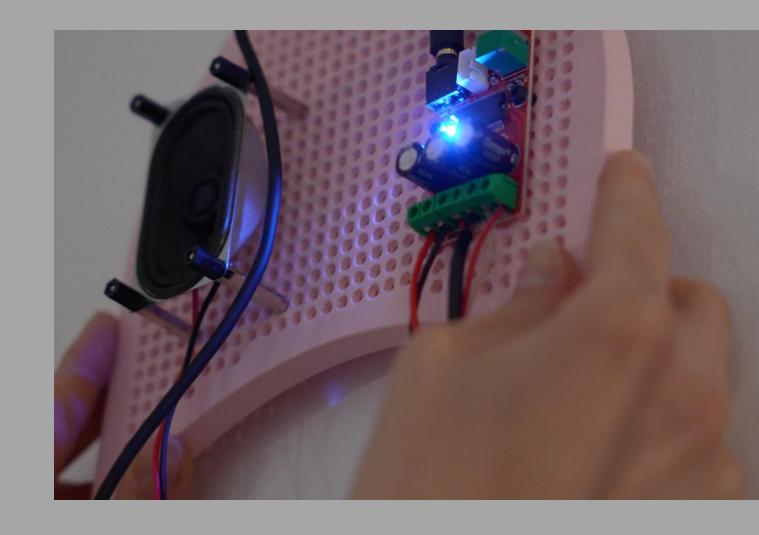


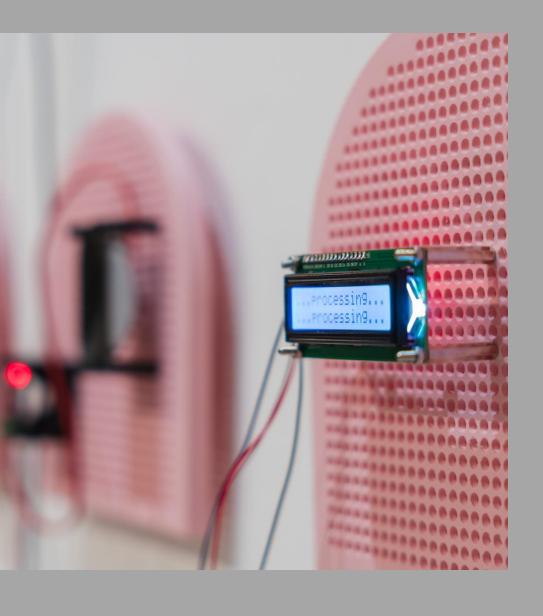


Explanatory Process

slowed-down version of the data conversion into a hash

Material, Visual, Sonic representation of SHA-256

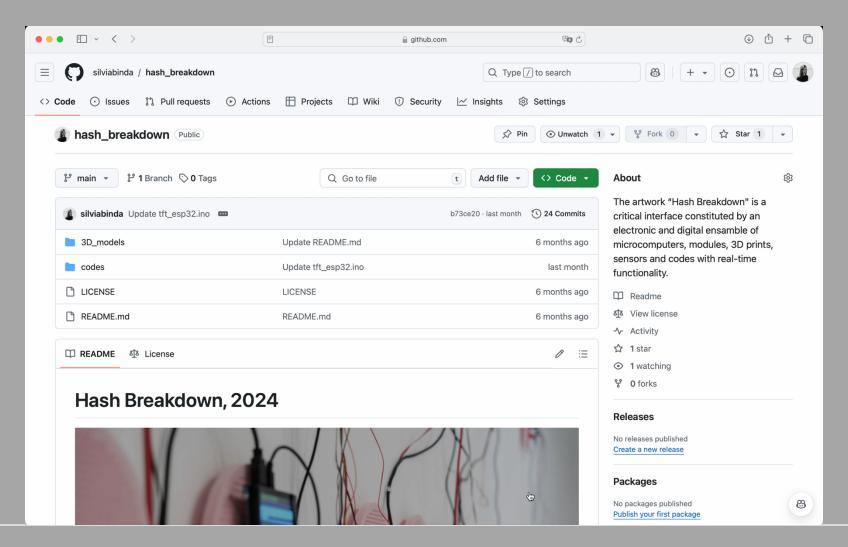




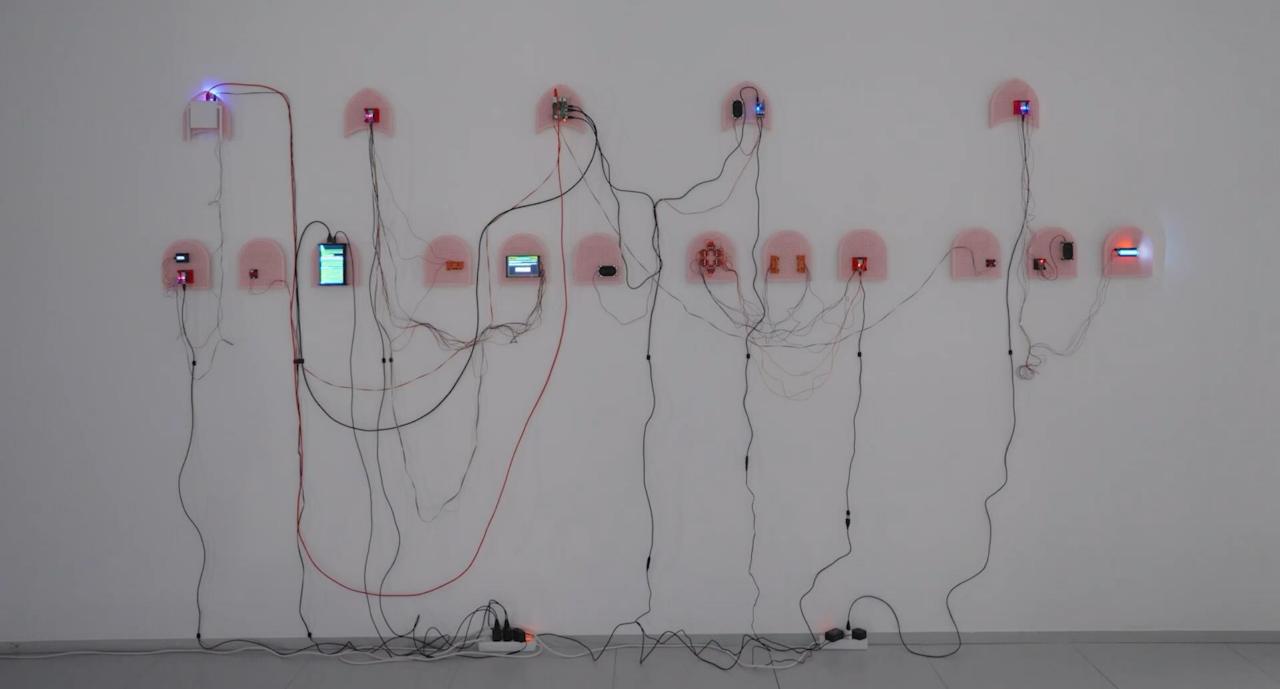
Autonomous System

making SHA-256 more readable, tangible, comprehensible

Open Hardware

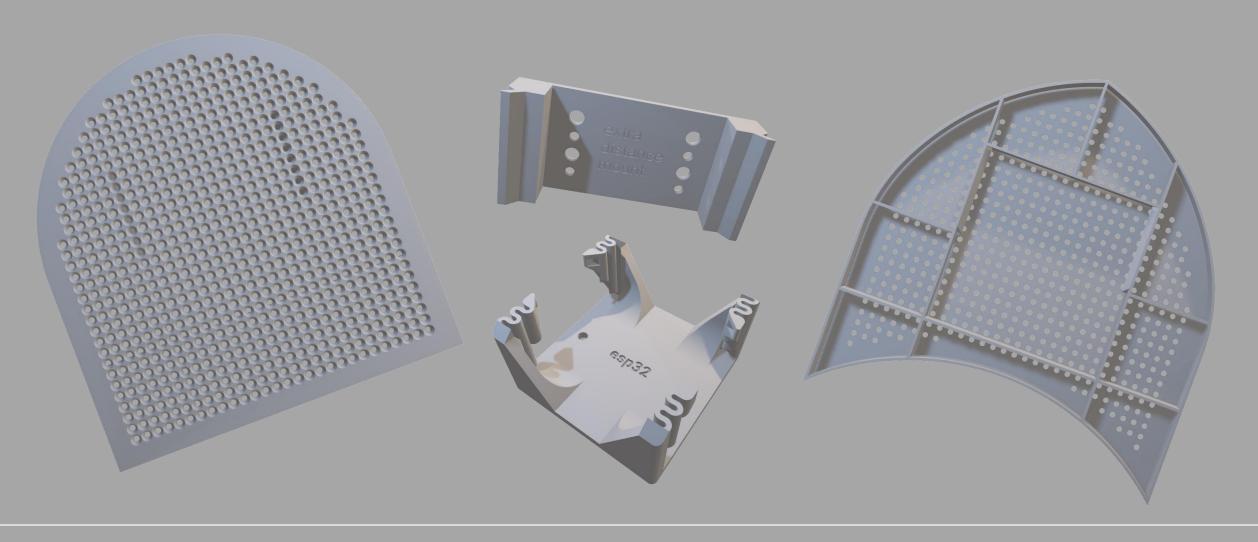


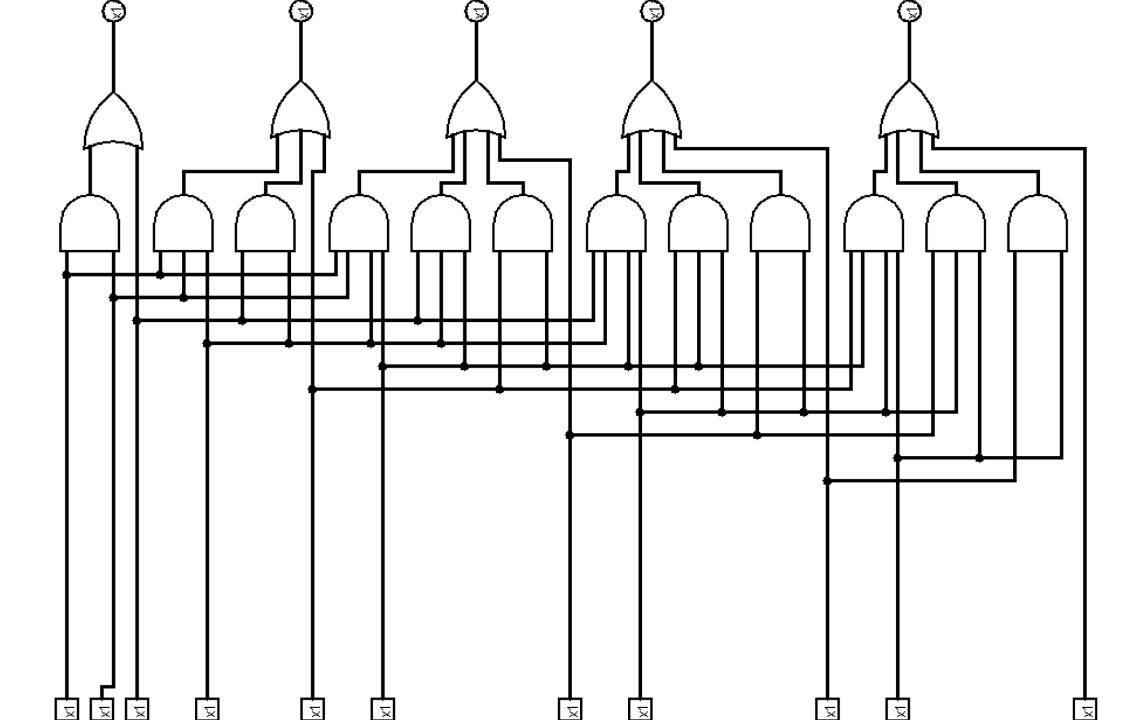
2 Video Preview



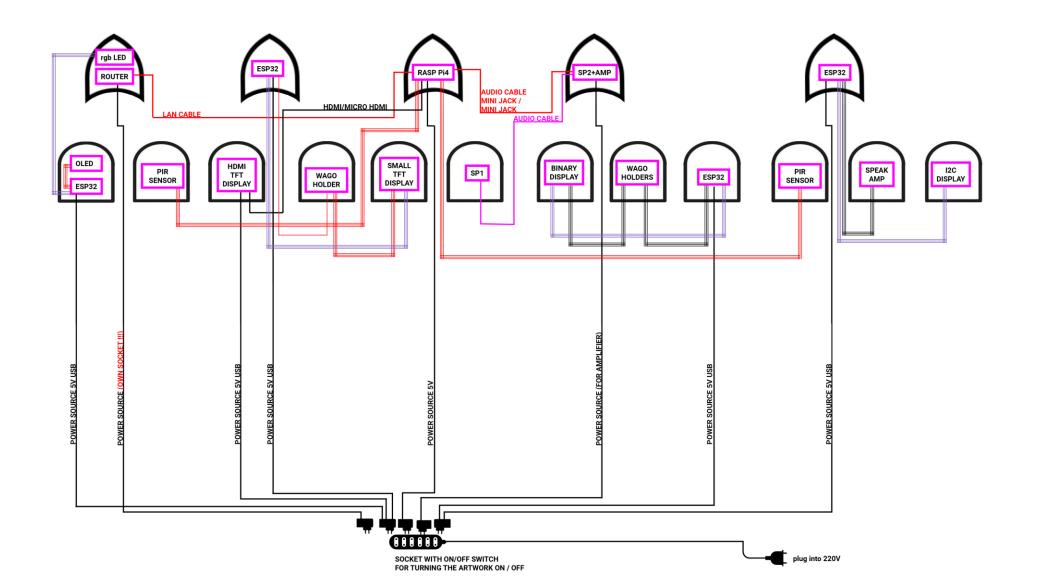
3 Technical Aspects

3D Prints

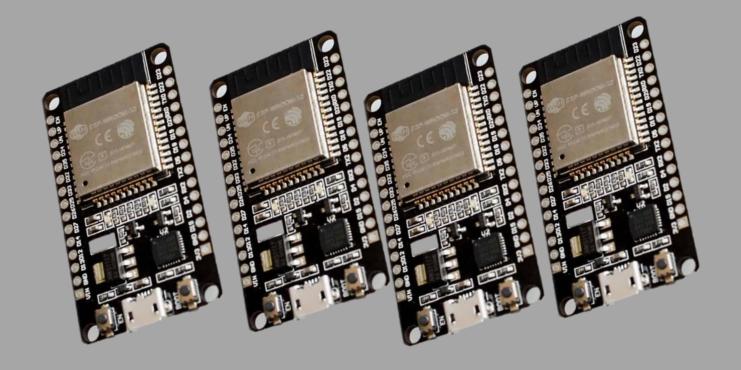




Connection schematic



Micro/Minicomputers





4x ESP32

Raspberry Pi 4

Coding

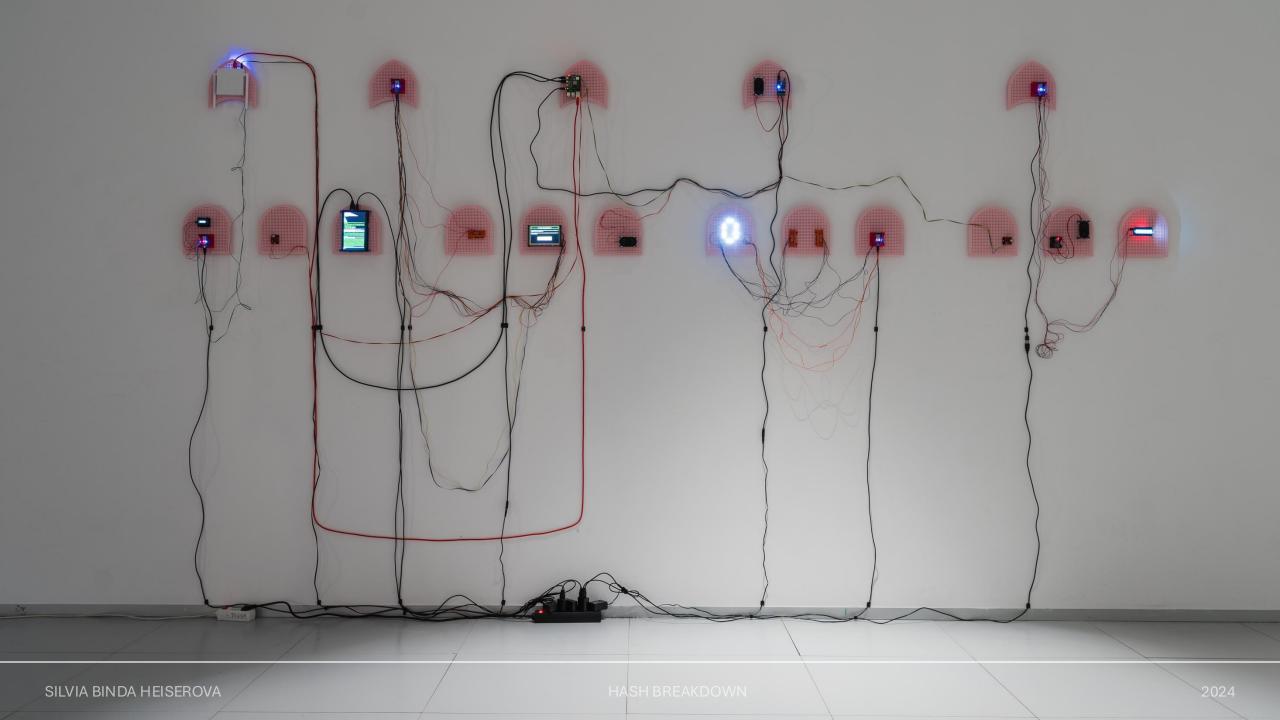
Main code (RasPi)

- written in Python
- Python implementation of SHA-256
- Python script for parsing data to be hashed
- Backup database
- TTS python library (real time synthesis)

Coding

ESP32 codes

- Python or C++ based
- Control of specific modules (amplifier, display, LEDs...)
- Receiving Data from RasPi (UDP) via offline router



4 Conclusion

- → Blockchain as a space for critical reflection from a feminist perspective.
- → Blockchain as a technology to be demystified and democratized.
- → Reclaiming technology through transparency and Open Source principles

Thank You



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SILVIA BINDA HEISEROVA HASH BREAKDOWN 2024