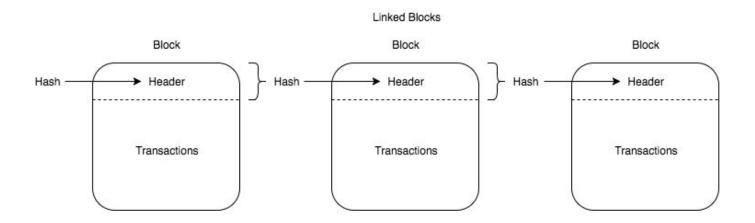
Rust and the Blockchain

"A love story"

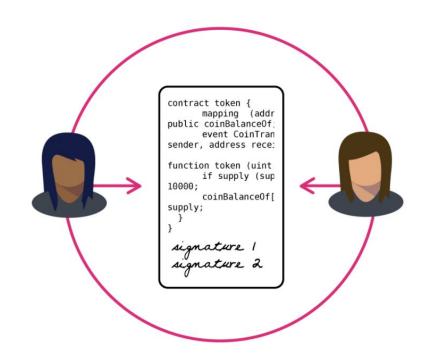
MadRust meetup May 23rd, 2018



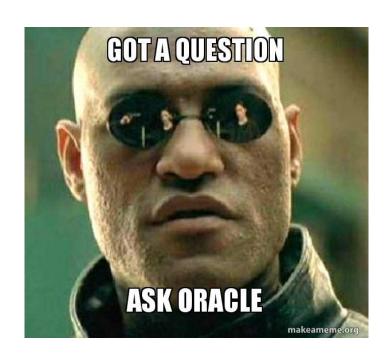
Block...what?



Smart contracts



The oracle problem



A decentralized Oracle Network



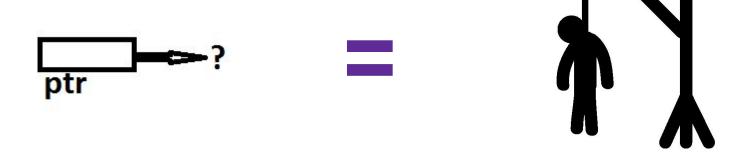
Writing crypto has always meant using C / C++



Crypto-currencies are no exception



C/C++ are scary



C/C++ are scary

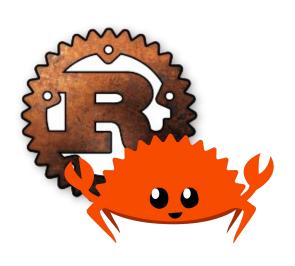


- Dangling pointers
- Memory leaks
- Undefined behavior
- Buffer overflow
- Race conditions
- User-managed memory with no GB
- Lack of booleans
- Poor error handling
- "goto" and wild branches
- Dead/unreachable code

In a blockchain, the stakes are too high

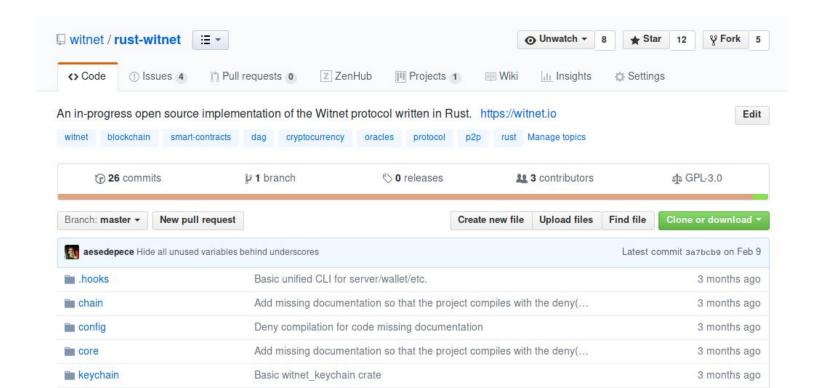


Rust to the rescue!



- Memory safety without GB
- Fearless concurrency thanks to ownership model
- High level of abstraction
- Negligible runtime compromise
- Human-friendly compiler
- Some degree of functional programming and metaprogramming
- AWESOME COMMUNITY

Rust in Witnet



Other rust-powered blockchain projects







The future looks bright for Rust and blockchain technology.

Don't miss out!