

DeFi: or How I Learned to Stop Worrying and Love the Blockchain



Finance

Finance

Money

Banks

Stocks

(Stock / Currency) Exchanges

PE / VC / Hedge-Funds

Decentralized Finance

Money	Cryptocurrencies/Tokens
Banks	Blockchains/ Lending Protocols/ Vaults
Stocks	Tokens / Synths
(Stock / Currency) Exchanges	Automated Market Makers
PE / VC / Hedge-Funds	Decentralized Autonomous Organizations

Decentralized Finance

Money

Currencies/Tokens

Expensive
Inefficient
Complex

Algorithms/
Protocols/
Smart Contracts

Derivatives/Synths

(Stock /

Automated Market Makers

PE / VC / Hedge-Funds

Decentralized Autonomous
Organizations

So, why?

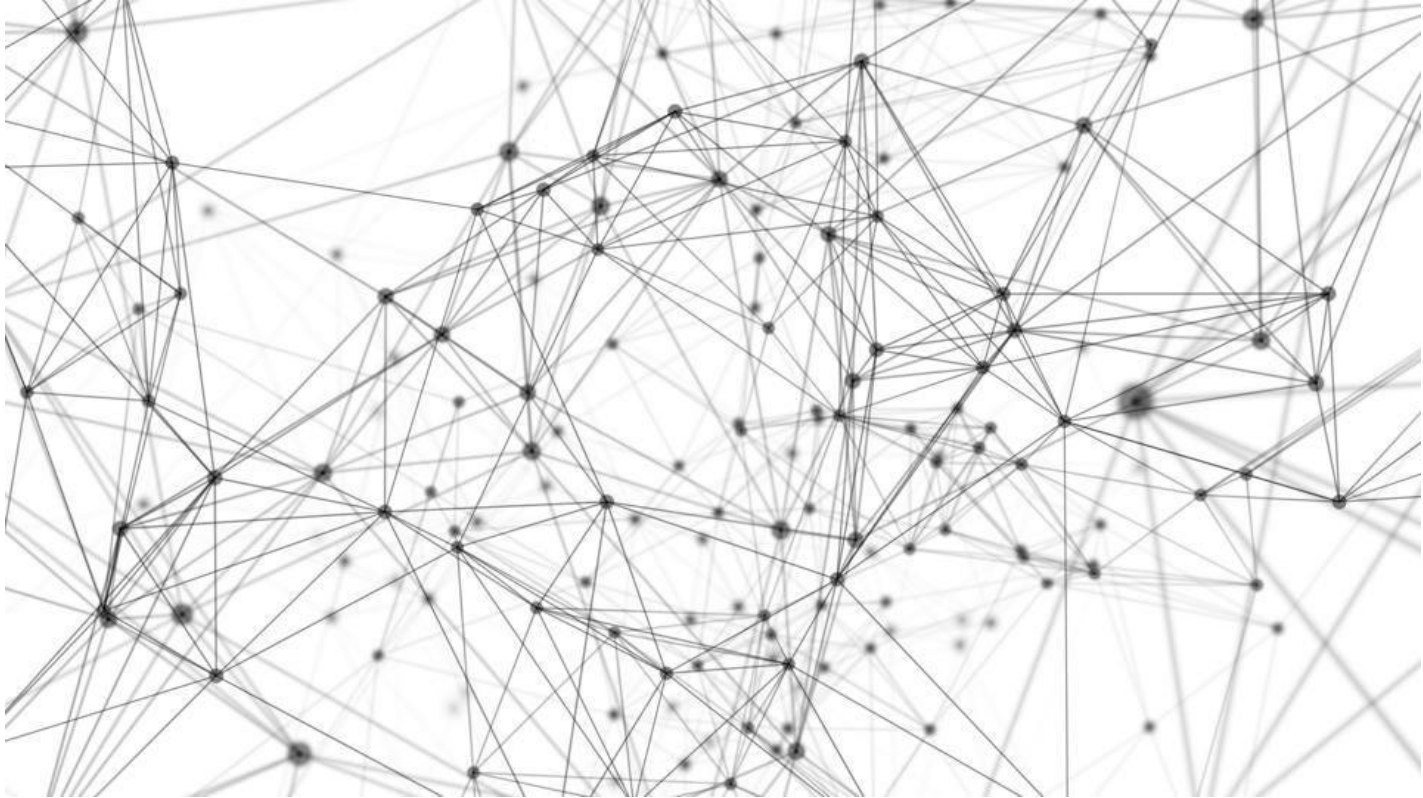
~~Decentralized~~ Finance



Eidgenössische Finanzmarktaufsicht FINMA
Autorité fédérale de surveillance des marchés financiers FINMA
Autorità federale di vigilanza sui mercati finanziari FINMA
Swiss Financial Market Supervisory Authority FINMA



Permission-less



But where exactly?

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The Blockchain!!!

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No, seriously

But where exactly?

Uniswap V2 - 0x5C69bEe701ef814a2B6a3EDD4B1652CB9cc5aA6f

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0x5C69bEe701ef814a2B6a3EDD4B1652CB9cc5aA6f = Hash Key

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Hash Value = Contract Code

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0x5C69bEe701ef814a2B6a3EDD4B1652CB9cc5aA6f = Hash Key

Hash Value = Contract Code

Hashmap = Blockchain, which is everywhere

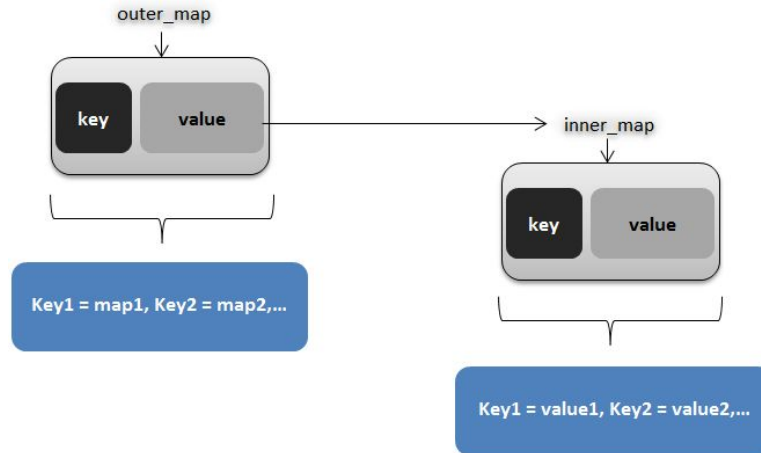
Money

Native to the Blockchain (first level hashmap)

Money

Native to the Blockchain (first level hashmap)

Token on the Blockchain == Nested Hashmaps



Money

Native to the Blockchain

Token on the Blockchain

Example: ERC-20 Token Standard

Money

Native to the Blockchain

Token on the Blockchain

Example: ERC-20 Token Standard

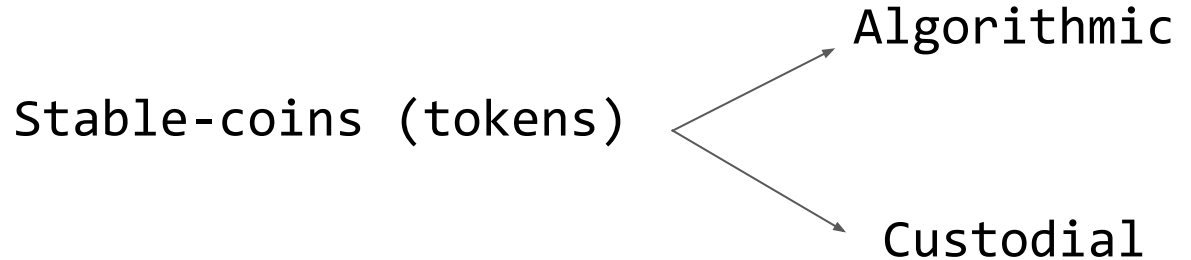
Stable-coins (tokens)

Money

Native to the Blockchain

Token on the Blockchain

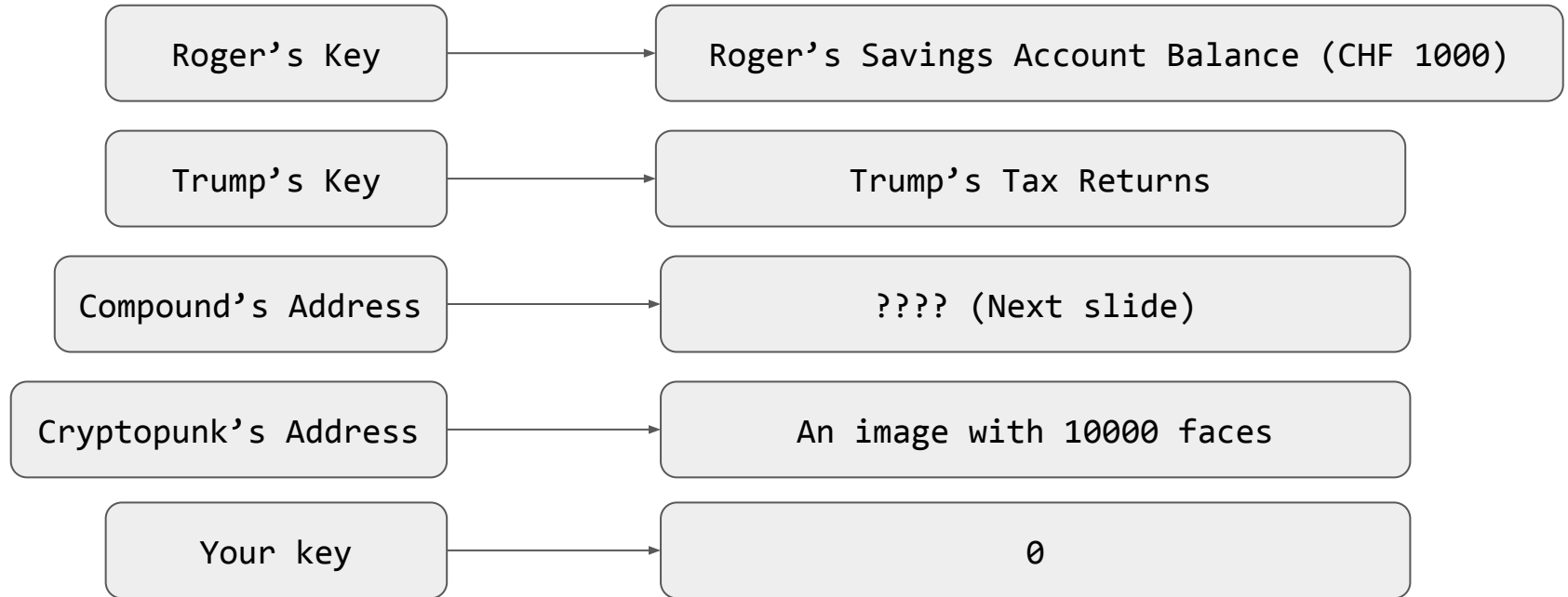
Example: ERC-20 Token Standard



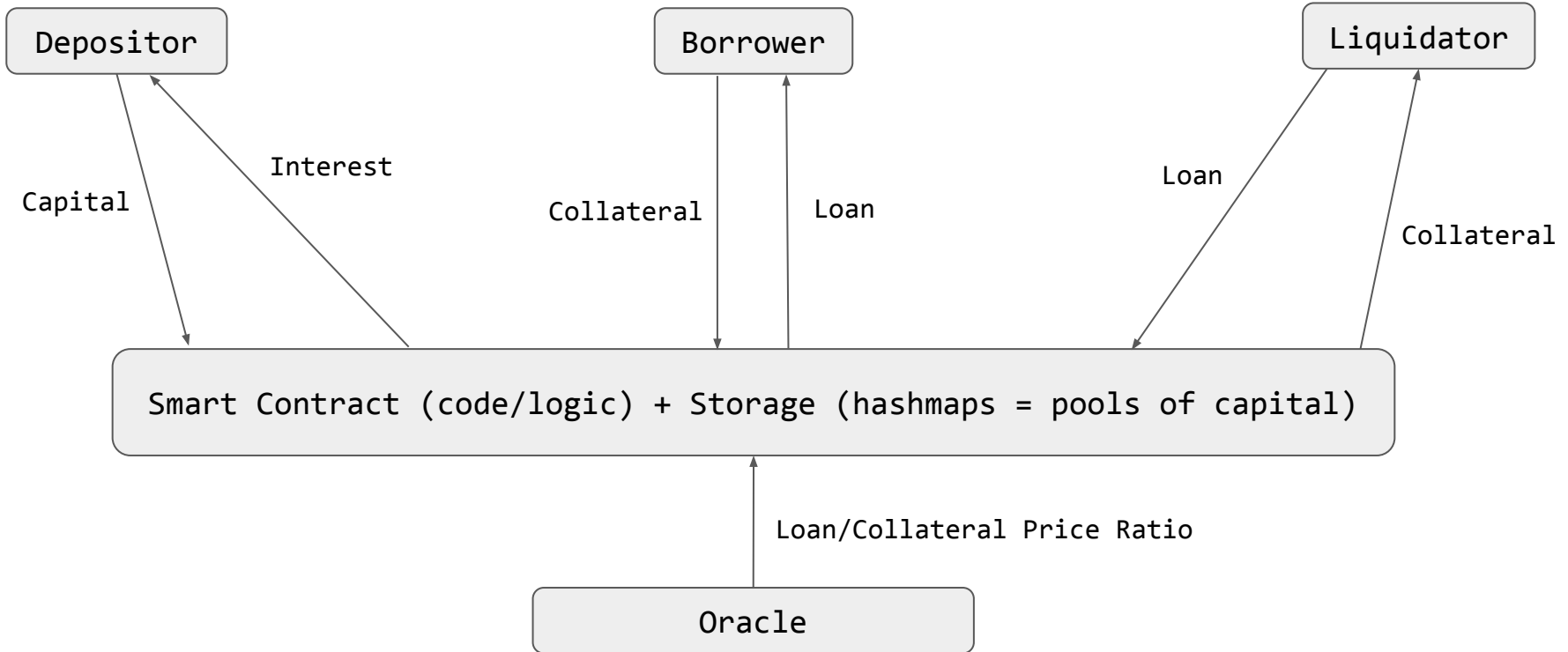
Banks

Blockchain/Smart Contract
or
Hashmaps/Nested Hashmaps

Root Hashmap

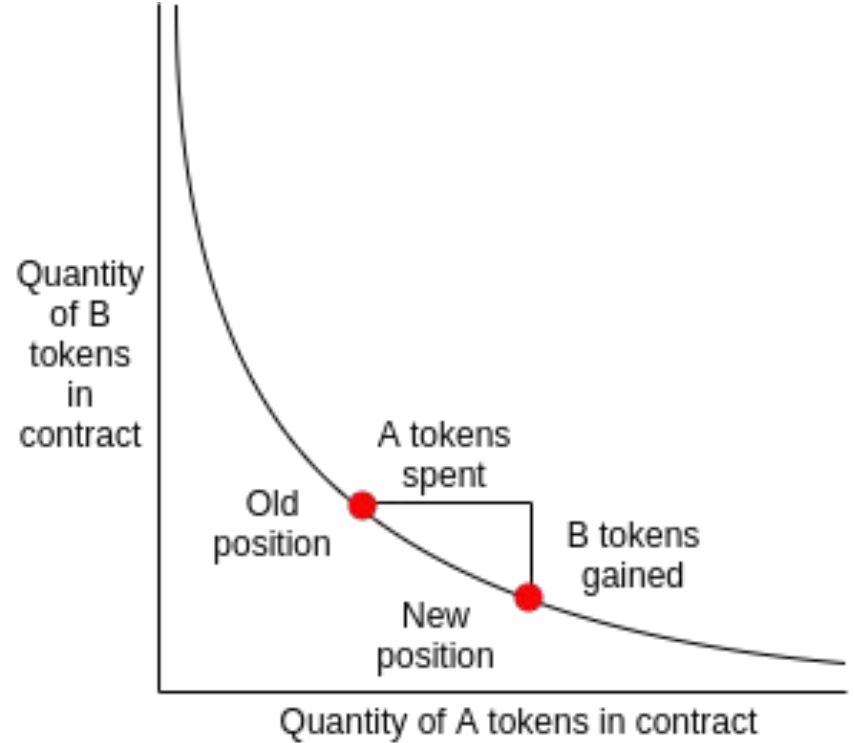


Lending Protocol

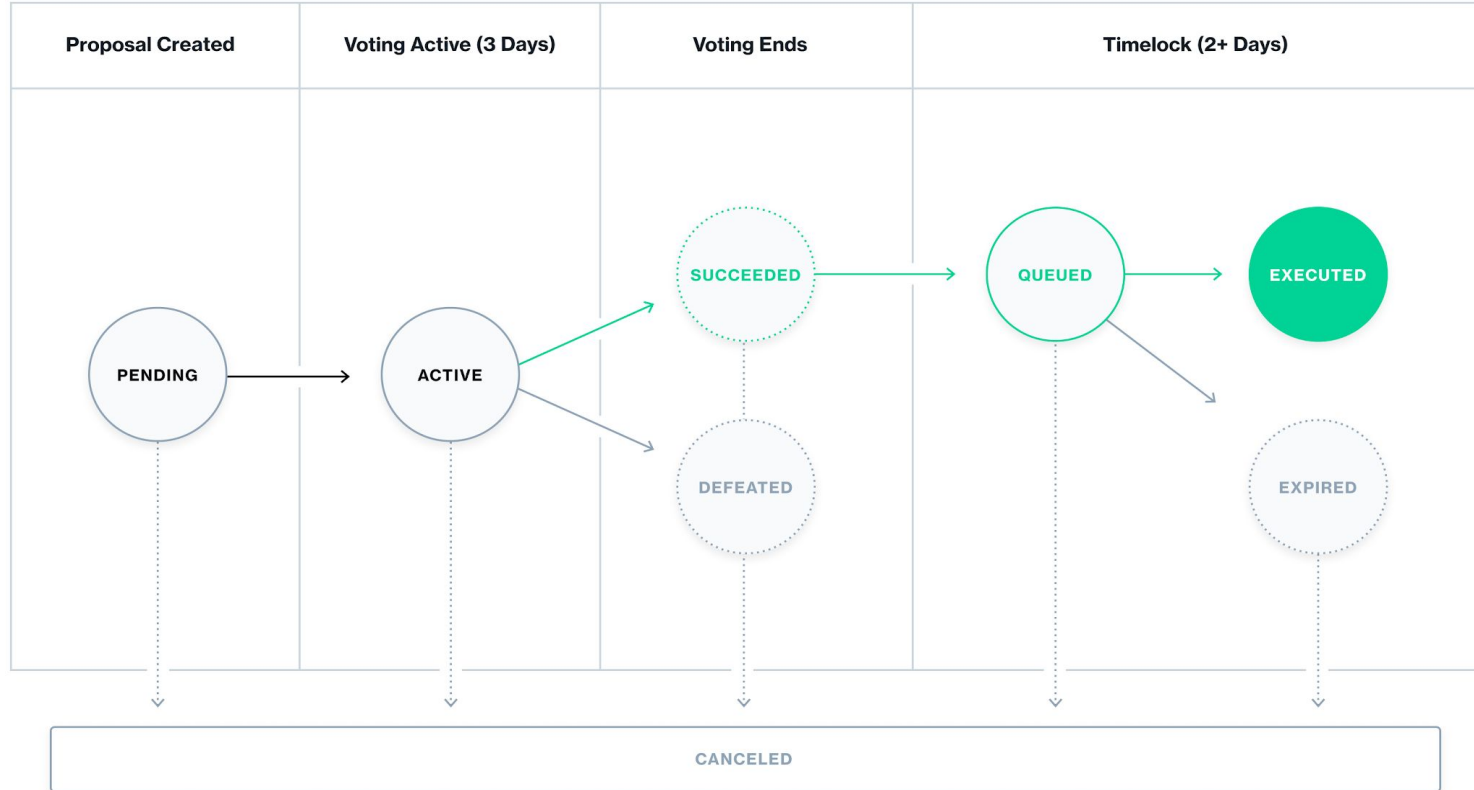


Constant Function Market Maker (Uniswap)

$$A * B = 2500$$



DAO



What can go wrong?

Trusted Third Party = 

Oracles

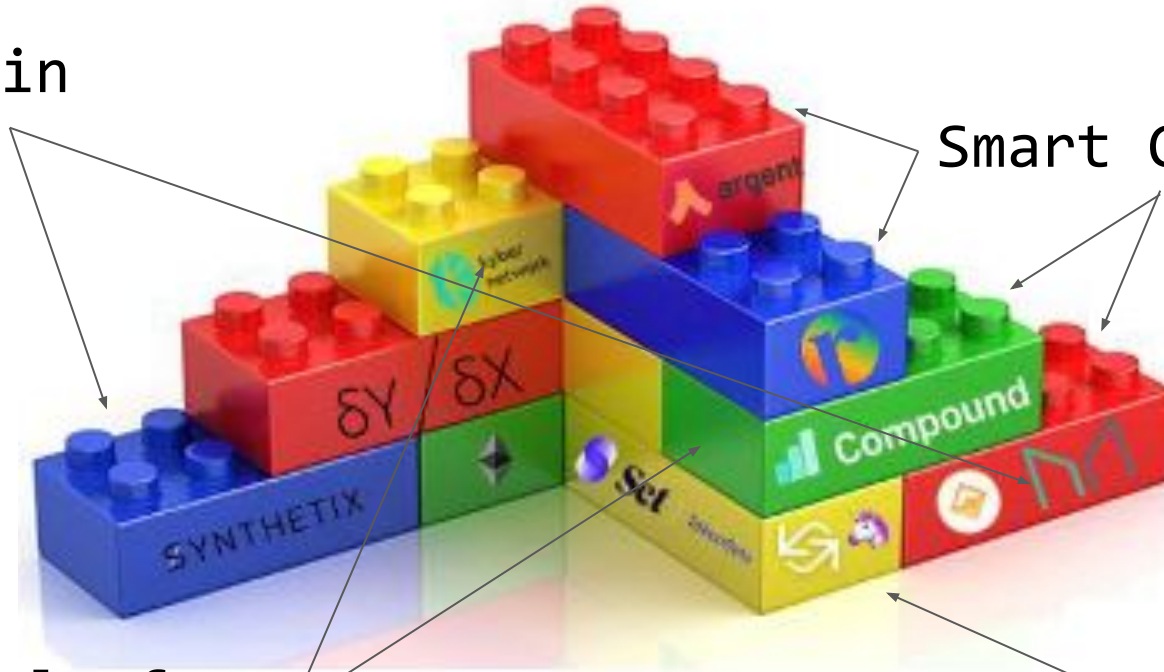
Stablecoins

Contract Deployer

2021 is the new 2008?

Stablecoin

Smart Contract API



Lending Platforms

Uniswap/DEX

Public Mempool

