

NOCUST

NOCUST-ZKP

Plasma (Cash)

Off-chain ledger state:

user balances

Off-chain ledger state: coin serial number

Fungible payments

Slower delayed finality

Lightweight clients

Instant finality support

Atomic Off-chain Swap (TEX)

Regular online presence to watch malicious state changes

- trusted setup for ZK

users without incoming transaction can stay offline

+ non-interactive challenge

Non-Fungible payments

Rapid delayed finality

Large amounts of history data

No instant finality support

No known feasibility for swaps

Regular online presence to watch malicious withdrawals

The good, bad and ugly of Commit Chains



Recipient can be offline to receive a transaction



Limited censorship resistance



No decentralization



No collateral for delayed finality



Instant and free onboarding



Data availability challenges

What if we have a blockchain that scales significantly (wrt. latency and volume)?







2nd Factor and Location Verification:

Do you really want to spend these coins? -> Get notified and act upon misbehavior.

Privacy:

Off-Chain transactions are not broadcast, **may** increase privacy Privacy is lost towards commit-chain operators.