

ETHEREUM IN THE ENTERPRISE ENVIRONMENT

INCREASE AGILITY, REDUCE RISK, AND LOWER COSTS

Do blockchains have a role in the private environment?

On the shoulders of giants

- * Blockchains are culmination of prior work
 - * Merkel hash trees (data)
 - * Distributed hash tables (network)
 - * Proof-of-work (lottery)

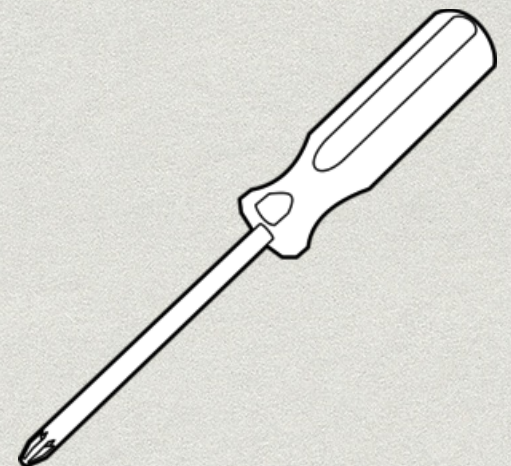
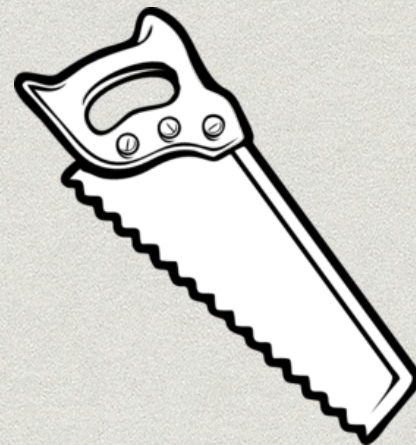
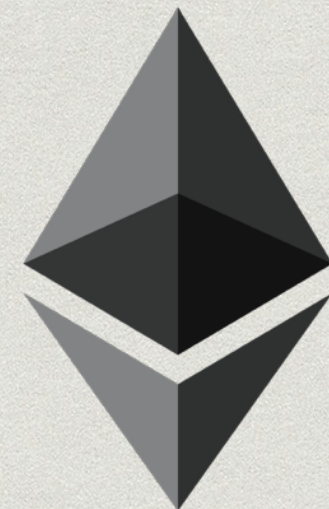
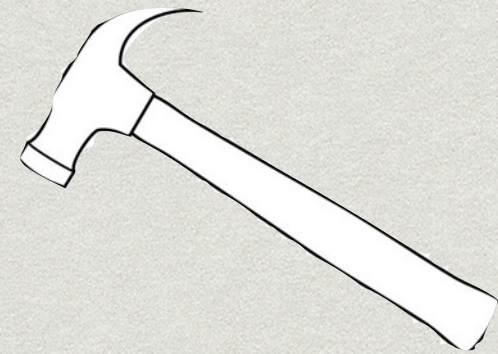
But what does it do?



What are blockchains, do we even know?

Blockchains are a tool

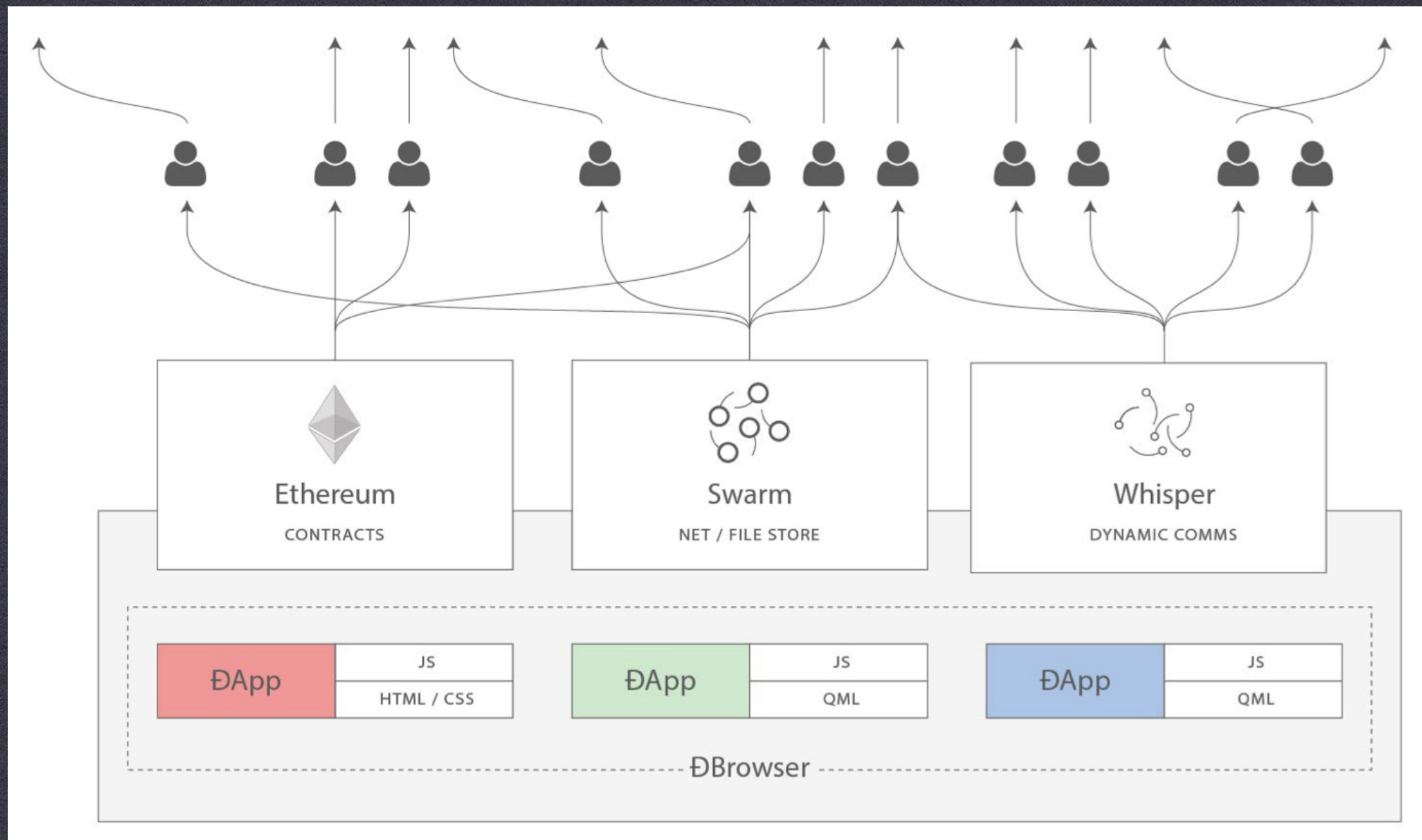
- * Will not replace all other tools
- * May join arsenal of other solutions
- * Properties of blockchains dictate use case
 - * Bitcoins good at value transfer
 - * Ethereum good at trusted computation



Blockchains excel at coordination.

WEB3

AS A SUITE OF TOOLS

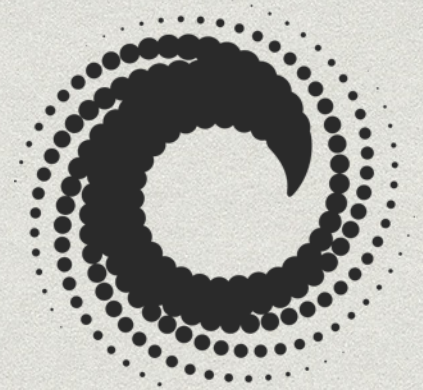


As a networked database

- * Code as data
- * Automatic synchronisation
- * Fault tolerance
- * Identity for free
- * Cryptographically secured & validated

ECDS... LMNOP?

- * Properties of cryptography
 - * data confidentiality
 - * data integrity
 - * authentication
 - * non-repudiation
- * Ease of web development



Benefits

- * Shared code means consistent & predictable execution
- * Append-only database is cryptographically verified and cannot be tampered with, even by sysadmins
- * Automatic & low-cost distribution using P2P technology

Questions?

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