



Introduction to Blockchain

 + dacade



Blockchain explained with emojis

Part 1: The Bitcoin network and the Blockchain

dacade

<https://www.youtube.com/channel/UC08wXfDvuqBJvuZfNZkv3xQ/playlists>



æternity

BLOCKCHAIN



æternity
BLOCKCHAIN

What is æternity?

An open-source, blockchain 3.0 æpps platform.

Solving current problems in blockchain, ie:

- scalability
- governance
- usability
- efficiency
- real world data
- contract security



Why æternity?

Scalability via State Channels.

State channels provide a method for users to **privately communicate and transact off-chain**. æternity's method for **reducing the on-chain load**.

Only in the case of a **disagreement** between the contracting parties does the æternity blockchain **enforce** the smart contract code.



Why æternity?

Oracles.

Oracles are source of information which can be accessed on the blockchain. **Anyone can be an oracle provider**, their reputation determines whether or not they are seen as a reliable source.



Why æternity?

Cuckoo Cycle PoW.

æternity uses the **Cuckoo Cycle**, a memory bound mining algorithm, in order to achieve the greatest **decentralization** possible.



Why æternity?

æternity smart contract approach.

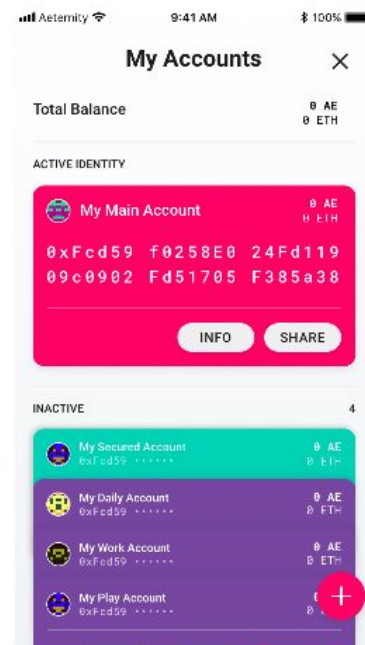
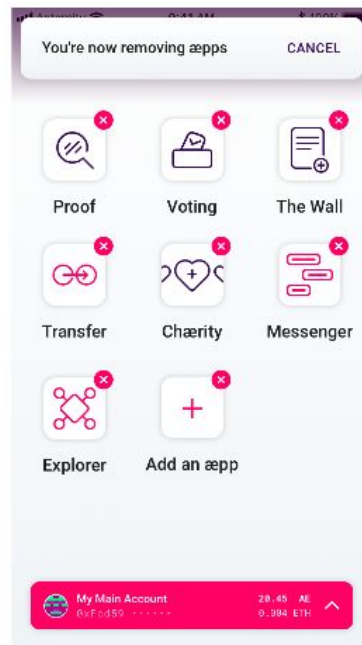
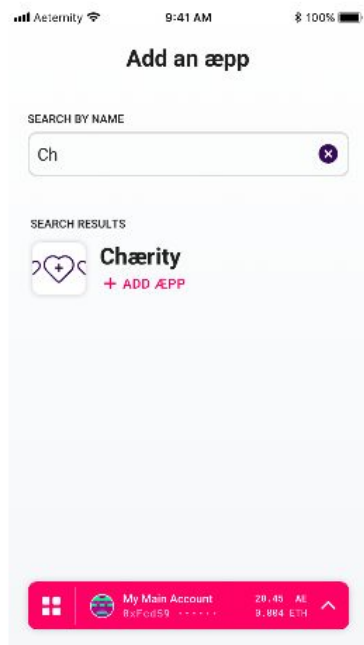
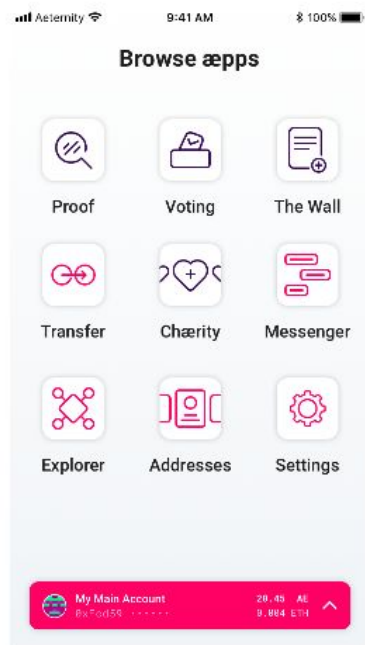
Contract execution should be **safe, efficient, cheap and scalable**.

Sophia is a new reason like programming language invented for the **æternity virtual machine**. Developers write smart contracts that run on the æternity blockchain in Sophia. Sophia's **syntax** is derived from (OCaml/ReasonML).



æpps Example

Base æpp



æternity's First On-Chain Governance Vote





Create New

Log out

POPULAR

NEWEST

TOTAL VOTES

ALL

CORE TECH

AEPPS

MARKETING

COMMUNITY

vote aepp is a wonderful application

Last Thursday at 12:33 PM



100%  Agreed 20 AE

0%  Disagreed 0 AE

Pokémon Blue > Pokémon Red

Last Wednesday at 2:42 PM

COMMUNITY



100%  Agreed 105 AE

æternity's blockchain is ready for use!

Build your own æpp.

As æternity has already launched their mainnet, you can start to **develop your own decentralized application on this new ecosystem**. Make use of æternity's maximum speed and efficiency to build **killer æpps** that rely on tamperproof data.



æternity's blockchain is ready for use!

Build your own æpp.

Some of the first æpps are dedicated to groundbreaking use cases, such as:

- Tokenized trust infrastructure based on machine learning
- Electricity network governance for supply companies and cooperatives
- Intellectual property management for artists and creators
- IoT data search and filtering engine + AI analysis tools
- Platforms for freelance, gaming, ticketing, HR and satellite data!
- Proof of provenance for agroecological products



æternity Ventures

Become part of the Starfleet blockchain incubator.



Technology

Some of the technology we use.

C++

elixir



Vue.js



You can find a full list on our [GitHub](#).



Why æternity?

From Liechtenstein. Made for the world.





ENTER THE ÆTERNITY UNIVERSE

SEPTEMBER 20-21 | PRAGUE, BOHEMIA

æternity Universe One.

Join the first major event dedicated to the æternity æcosystem!

- Meet developers and entrepreneurs who build with æternity.
- Expect a state-channel payment production system onsite.
- æpp hackathon on the weekend up-front.
- Developer and business tracks with presentations including:
- FATE: Fast æternity Transaction Engine – The new efficient virtual machine



æternity Universe One.

Join the first major event dedicated to the æternity ecosystem!

- Developer track:
 - Trustless scaling (State Channels)
 - On-chain governance approaches for a mainstream audience
 - Decentralized name space
 - How to build on æternity using the ForcAE and Playground tools
- Business track:
 - How to organize Token Sales
 - Funding through AE Ventures and æternity Crypto Foundation
 - Opportunities in Asia, South America, and Africa





Mumbai,
India



Córdoba,
Argentina





1> machine.s
2> oracle pre
3> history tra



Jos,
Nigeria

Why should I become a community leader?

Join a vibrant community.

æmbassadors all over the world work on spreading æternity's message of **safe, efficient and economic** smart contracts. Be a part of this global network of blockchain enthusiasts and talented developers **bringing æternity to your neighbourhood!**



Forum

New to æternity? Ask a question and find an answer in the Forum.

- Core Technology
- æpps
- Incubator Program
- æmbassadors
- Program
- Mining
- & more!



Contact

We would like to hear from you!

The best way to contact us is on our forum:

<http://forum.aeternity.com/>

Or via our social media channels:

<https://www.facebook.com/aeternityproject/>

<https://twitter.com/aeternity>

<https://www.reddit.com/r/Aeternity/>

<https://telegram.me/aeternity>

<https://www.linkedin.com/company/10988166/>

