#### DAOs and the Web3 vision

## Decentralized Autonomous Organizations

## DAOs operate without clear individual liability

### DAOs completely **break** the traditional **legal system**

### DAOs may be **operated by machines**, not only humans

# DAOs destroy nation state's monopoly on governance

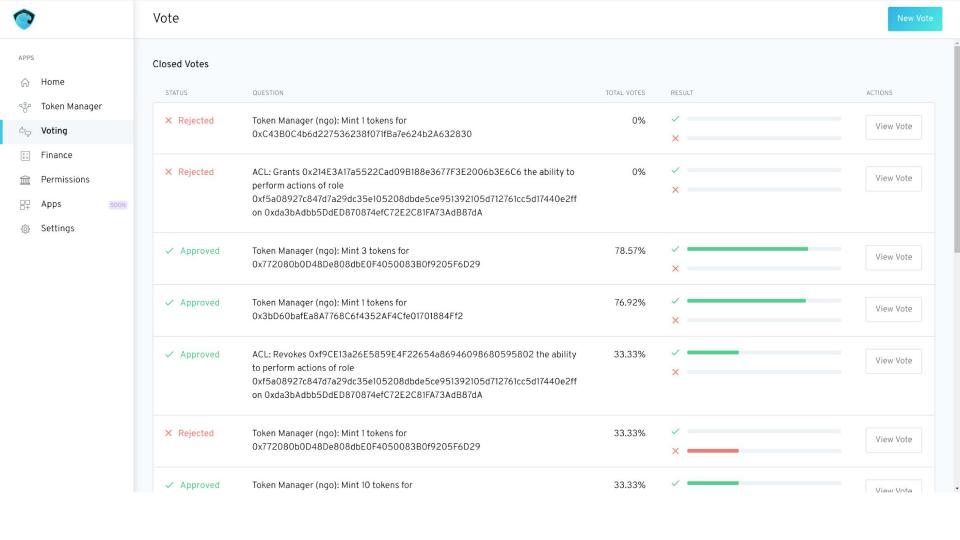
Aragon is a project to empower freedom by creating tools for decentralized governance

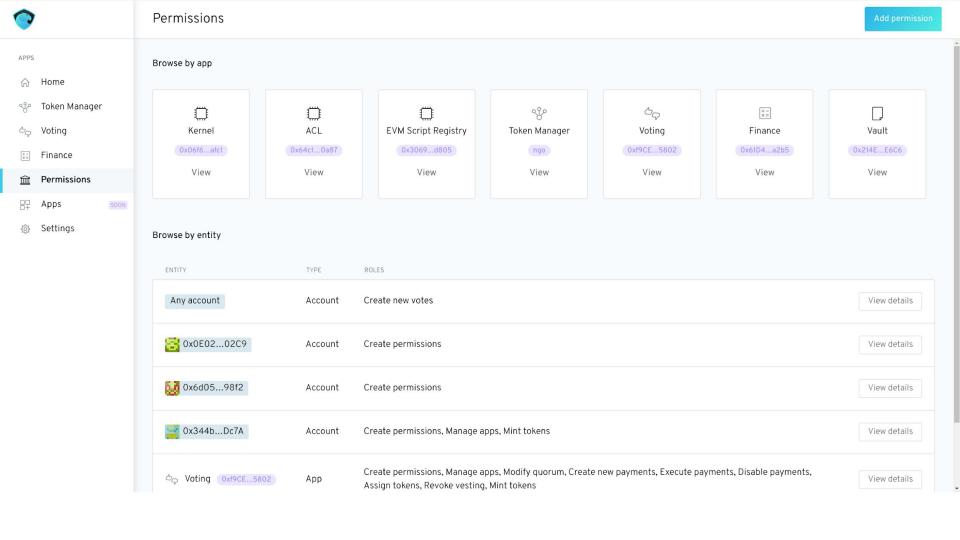


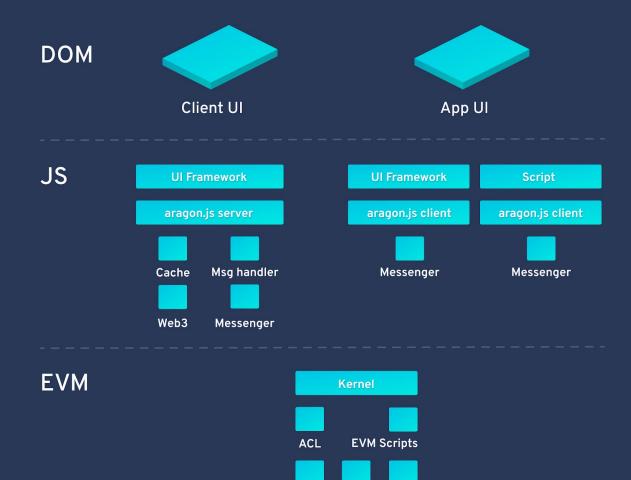


wiki.aragon.org/jobs

### Aragon 0.5, The Architect

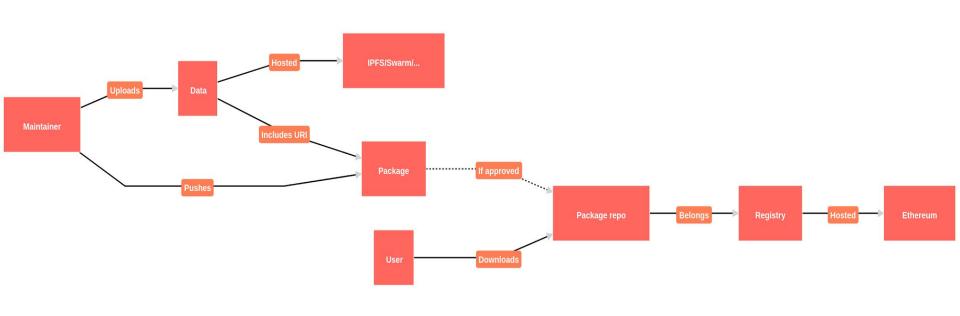






App 1 App 2 App 3





```
import "@aragon/os/contracts/apps/AragonApp.sol";
contract Counter is AragonApp {
   // ...
    function increment() auth(INCREMENT ROLE) external {
       value += 1;
        Increment(msg.sender);
    function decrement() auth(DECREMENT ROLE) external {
       value -= 1;
       Decrement(msg.sender);
```

#### aragonOS

[li@linux test]\$



#### Smart accounts (personal DAOs)

- Represents you + supports ENS
- Can have multiple apps (vault, fund recovery)
- Can have rich permissions between apps
- Multi-sig, two factor auth, etc. can be used for much more than moving funds around

#### Smart accounts: Example 1

A **Key Split** app that gives **permission** to a set of people to **progressively** access your funds if:

- a) You haven't transacted for a month
- b) People can send valid signatures to the app

#### Smart accounts: Example 2

A **Finance** app that gives **permission** to a set of keys to **progressively** access your funds. Example:

- Key A (MetaMask) can access up to 1ETH/month.
- Key A + Key B (MetaMask + Parity Signer) can access up to 10ETH/month.
- Key A + Key B + Key C (MetaMask + Parity Signer + Ledger) can access all of your funds and change permissions in the DAO.

#### Smart accounts: Example 3

An **Identity** app that can forward posts to Peepeth on your behalf.

You can **re-use any governance mechanism** and give it **permission** over the Identity app.

Organization-controlled social media accounts. Boom!

```
osarrouy@macbook:test2 → pando init
[initialized][/Users/osarrouy/test2]
osarrouy@macbook:test2 → pando config
? IPFS node URL: http://localhost:5001
? Ethereum node URL: http://localhost:8545
? Account type Unlocked account
? Account: 0xB8B6ccf6DbF56a51f04Ceee5c88ba7F0eBF783bB
[updated]
osarrouy@macbook:test2 → pando remote add origin 0x623c73ebcf1fededea302f728989d8631feccf76
[added]
osarrouy@macbook:test2 → pando pull origin master
[pulled]
osarrouy@macbook:test2 → ls
test.md
osarrouy@macbook:test2 → nano test.md
osarrouy@macbook:test2 → pando stage test.md
[staged]
osarrouy@macbook:test2 → pando commit -m 'Modifications here'
[snapshot][zdq6yFZ5Ehe511y51r4Jd9WRtVYj5D47mPLUHoqbSCV97Jf1D]
osarrouy@macbook:test2 → pando push origin master
[error][You do not own PUSH role over remote 'origin']
osarrouy@macbook:test2 →
```

#### Aragon Network

An opt-in jurisdiction that facilitates more efficient interactions between blockchain-native digital entities using economic incentives. Users are required to stake digital assets in order to participate in governance and to collateralize subjective agreements. In the event of a dispute a decentralized court serves as an oracle to resolve and enforce agreements between participants. An algorithmic monetary policy manages reserves and issuance of ANT to incentivize participation and healthy growth of the network.

github.com/aragon/whitepaper

### Semi-automated voting

In February, Aragon asked us to do a code Review for the aragonOS framework as well as the Finance, Voting and Token Holder applications. We were very impressed with quality of the code. It is without question one of the most advanced smart contract systems in the space and makes extensive use of many new functionalities within Solidity and at the EVM level. Especially notable is the secure way to deploy a core controller that adds upgradability, the access control pattern (ACL) and its flexible execution engines. \*\*

### aragonOS audit by the Whitehat Group (The guys who hacked The DAO hacker)

Experiment with governance at the speed of software



aragon.org