Aragon is a project to empower freedom by creating tools to enable *decentralized governance*. 
Unstoppable Organizations

Create value
without borders or
intermediaries
The DAO

Look how much I have.

Can I hold it?

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Aragon v0.1-0.3

- Decentralized company
- Your own bank
Aragon Core v0.5 - The Architect

app.aragon.one
Welcome to Aragon 0.5 – The Architect

What do you want to do?

- Assign Tokens
- Vote
- Check Finance
- New Payment

Connected to the network
<table>
<thead>
<tr>
<th>Owner Address</th>
<th>Owner Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x72080b0D48De808dbE0F4050083B0f9205F6D29 (You)</td>
<td>0x15bdCb665f5a5e9Cef07b2a91dd270BA505051</td>
</tr>
<tr>
<td>0xC43B0C4b6d227536238f07fBa7e624b2A632830</td>
<td></td>
</tr>
</tbody>
</table>

**Token Info**

- **Total Supply**: 3

**Ownership Distribution**

- **Token Holder Stakes**
  - 0x72080b0D48De808dbE0F4050083B0f9205F6D29 (You) - 33%
  - 0x15bdCb665f5a5e9Cef07b2a91dd270BA505051 - 33%
  - 0xC43B0C4b6d227536238f07fBa7e624b2A632830 - 33%
Opened Votes

<table>
<thead>
<tr>
<th>TIME REMAINING</th>
<th>QUESTION</th>
<th>TOTAL VOTES</th>
<th>PROGRESS</th>
<th>ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 D 23 H 58 M 14 S</td>
<td>Should we fund disaster relief for victims of hurricane Irma?</td>
<td>33.33%</td>
<td>✔️</td>
<td>View Vote</td>
</tr>
</tbody>
</table>

Closed Votes

<table>
<thead>
<tr>
<th>STATUS</th>
<th>QUESTION</th>
<th>TOTAL VOTES</th>
<th>RESULT</th>
<th>ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved</td>
<td>Token Manager (ngo): Mint 1 tokens for 0xC43B0C4b6d227536238f07f8a7e624b2A632830</td>
<td>50%</td>
<td>✔️</td>
<td>View Vote</td>
</tr>
<tr>
<td>Approved</td>
<td>Should we help reimagine democracy in the United States of America?</td>
<td>50%</td>
<td>✔️</td>
<td>View Vote</td>
</tr>
<tr>
<td>Approved</td>
<td>Finance: Create a new payment of 753 BCC. It will be executed 1 times at intervals of 0 days</td>
<td>50%</td>
<td>✔️</td>
<td>View Vote</td>
</tr>
<tr>
<td>Approved</td>
<td>Token Manager (ngo): Mint 1 tokens for 0x15bdC6651f5a5e9Cef07b2a981dd270BA505051</td>
<td>100%</td>
<td>✔️</td>
<td>View Vote</td>
</tr>
</tbody>
</table>
Finance

Token Balances

<table>
<thead>
<tr>
<th>Token</th>
<th>Amount</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCC</td>
<td>26</td>
<td>$340,358.69</td>
</tr>
<tr>
<td>ETH</td>
<td>3.14</td>
<td>$1,613.52</td>
</tr>
<tr>
<td>ZRX</td>
<td>453</td>
<td>$319.01</td>
</tr>
<tr>
<td>DNT</td>
<td>137</td>
<td>$9.26</td>
</tr>
<tr>
<td>ANT</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>MANA</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>SPANK</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>SNT</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>MKR</td>
<td>0</td>
<td>$0</td>
</tr>
</tbody>
</table>

Transfers

<table>
<thead>
<tr>
<th>Date</th>
<th>Source/Recipient</th>
<th>Reference</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>13/04/18</td>
<td>0x61D463f2613F04053bc875C72a9dA22348Da2b5</td>
<td>Food aid</td>
<td>-753 BCC</td>
</tr>
<tr>
<td>13/04/18</td>
<td>0x39a4D265db942361D92e2B0039cae73Ea72a2ff9</td>
<td>Requested airdrop (test tokens)</td>
<td>+453 ZRX</td>
</tr>
<tr>
<td>13/04/18</td>
<td>0x772080b0D48De808dbF4050083B0f9205F6D29</td>
<td>Ether transfer to Finance app</td>
<td>+3.14152 ETH</td>
</tr>
<tr>
<td>13/04/18</td>
<td>0x39a4D265db942361D92e2B0039cae73Ea72a2ff9</td>
<td>Requested airdrop (test tokens)</td>
<td>+137 DNT</td>
</tr>
</tbody>
</table>
Aragon launches Survey app on Mainnet
First Aragon app launched on Ethereum Mainnet for community sentiment signaling
Development
Decentralizing Aragon’s development

Splitting the Foundation from the core devs, and kickstarting funding for other teams to work on Aragon
Introducing Aragon One

The first company contributing to Aragon's development
Decentralizing Aragon’s development III: Onboarding new teams

Incentivizing new teams to work on common Aragon infrastructure
Aragon UI

Aragon UI allows you to develop apps that look and feel like Aragon apps.
Sandbox RPC

↔ events
↔ call
↔ intent
↔ cache
→ notification
← context
Toolkit for Aragon applications, including:

1. Messaging
2. Transaction forwarding
A framework for programming governance

github.com/aragon/aragonOS
Introducing aragonOS 3.0 alpha, the new operating system for protocols and DApps

Smart contract codebase has been frozen, audit with WHG starts today and announcement for Aragon v0.5 release schedule
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.
Out of the box

1. Upgradability
2. Complex permissioning
3. Transaction forwarding
contract DelegateProxy is ERCProxy {
    uint256 constant public FWD_GAS_LIMIT = 10000;

    /**
     * @dev Performs a delegatecall and returns whatever the delegatecall returned (entire context execution will return!)
     * @param _dst Destination address to perform the delegatecall
     * @param _calldata Calldata for the delegatecall
     */
    function delegatedFwd(address _dst, bytes _calldata) internal {
        delegatedFwd(_dst, _calldata, 0);
    }

    /**
     * @dev Performs a delegatecall and returns whatever the delegatecall returned (entire context execution will return!)
     * @param _dst Destination address to perform the delegatecall
     * @param _calldata Calldata for the delegatecall
     * @param _minReturnSize Minimum size the call needs to return, if less than that it will revert
     */
    function delegatedFwd(address _dst, bytes _calldata, uint256 _minReturnSize) internal {
        require(isContract(_dst));
        uint256 size;
        uint256 result;
        uint256 fwd_gas_limit = FWD_GAS_LIMIT;

        assembly {
            result := delegatecall(sub(gas, fwd_gas_limit), _dst, add(_calldata, 0x20), mload(_calldata), 0, 0)
            size := returnrdatasize
        }
        require(size >= _minReturnSize);
    }
}
Permissions

Access Control List (ACL)

```solidity
interface IACL {
    function initialize(address permissionsCreator) external;
    function hasPermission(address who, address where, bytes32 what)
        external view returns (bool);

    /* Non-interface suggestions for implementations:
    function createPermission(address who, address where, bytes32 what) external;
    function grantPermission(address who, address where, bytes32 what) external;
    function revokePermission(address who, address where, bytes32 what) external; */
}
```

Interface:  https://github.com/aragon/aragonOS/blob/dev/contracts/acl/IACL.sol
Implementation:  https://github.com/aragon/aragonOS/blob/dev/contracts/acl/ACL.sol
Permissions

Using the ACL: auth()

/**
 * @notice Create a new vote about "\_metadata"
 * @param _executionScript EVM script to be executed on approval
 * @param _metadata Vote metadata
 * @return voteId Id for newly created vote
 */

function newVote(bytes _executionScript, string _metadata) auth(CREATE_VOTES_ROLE) external returns (uint256 voteId) {
}
contract DAOFactory {
  function newDAO(address root) public returns (Kernel) {
    Kernel dao = new Kernel();
    dao.initialize(root); // Assume this also creates an ACL for the DAO
    ACL acl = ACL(dao.acl());
    Vault vault = Vault(dao.newAppInstance("vault"));
    Voting voting = Voting(dao.newAppInstance("voting"));
    Finance finance = Finance(dao.newAppInstance("finance"));
    TokenManager tokenManager = TokenManager(dao.newAppInstance("token-manager"));
    acl.createPermission(finance, vault, vault.TRANSFER_ROLE());
    acl.createPermission(voting, finance, finance.CREATE_PAYMENTS_ROLE());
    acl.createPermission(voting, finance, finance.EXECUTE_PAYMENTS_ROLE());
    acl.createPermission(voting, tokenManager, tokenManager.MINT_ROLE());
    acl.createPermission(voting, tokenManager, tokenManager.ASSIGN_ROLE());
    return dao;
  }
}
Transaction Forwarding

Sign Transaction

Permission note:
You cannot directly perform this action. You do not have the necessary permissions.

Action Requirement
Here are some options that you can use to perform it:

- Voting (ANT)
The Voting (ANT) app will create a new voting for ANT holders to decide whether to perform this action or not.

- Tokens (XVT) → Voting (ANT)
  1. The Tokens (XVT) app will forward actions requested by XVT token holders.
  2. The Voting (XVT) app will create a new voting for ANT holders to decide whether to perform this action or not.

Action to be triggered
This transaction would eventually perform a payment to address 0x52b...1ka11
Estimated payment cost

Sign Transaction
Aragon Developer Portal
What you need to get started building with Aragon

Get started  Take the tutorial >

Build DAOs, protocols and dapps
Aragon is the most powerful and modular way to run DAOs. But in our journey creating DAOs, we discovered how to modularize individual components that can be used for creating any dapp or crypto protocol.
npm install -g @aragon/cli

> aragon

aragon <command>

Commands:

- aragon apm <command> Publish and manage your APM package
- aragon contracts Execute any Truffle command with arguments
- aragon dao <command> Manage your Aragon DAO
- aragon deploy [contract] Deploys contract code of the app to the chain
- aragon devchain Open a test chain for development and pass arguments to ganache
- aragon init <name> [template] Initialise a new application
- aragon ipfs Start IPFS daemon configured to work with Aragon
- aragon run Run the current app locally

APM:

- --apm.ens-registry Address of the ENS registry
  [default: "0x5f6f7e8cc7346a1lca2def8f827b7a0b612c56a1"]
- --eth-rpc

APM providers:

- --apm.ipfs.rpc An URI to the IPFS node used to publish files
  [default: "http://localhost:5001#default"]
Community

- 8,000 members @ aragon.chat
- 20,000 token hodlers
- 65,000 twitter followers
Aragon Nest
Welcome to Aragon Research Discourse forum
Welcome to the Aragon Research forum! This is the space for long-form discussions about research topics related to Aragon, the Aragon Network and Governance. The first paragraph of this pinned topic will be visible as a... read more

<table>
<thead>
<tr>
<th>Topic</th>
<th>Category</th>
<th>Users</th>
<th>Replies</th>
<th>Views</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-chain contexts</td>
<td>Economics</td>
<td>2</td>
<td>22</td>
<td>1d</td>
<td></td>
</tr>
<tr>
<td>TCR: MINORITY_BLOC_SLASH parameter</td>
<td>Oracles</td>
<td>4</td>
<td>24</td>
<td>9d</td>
<td></td>
</tr>
<tr>
<td>TCR: get the result from a vote</td>
<td>Oracles</td>
<td>3</td>
<td>47</td>
<td>9d</td>
<td></td>
</tr>
<tr>
<td>TCR: How to redistribute tokens after challenge is resolved</td>
<td>Oracles</td>
<td>4</td>
<td>63</td>
<td>10d</td>
<td></td>
</tr>
</tbody>
</table>
Come hang out!
aragon.one
aragon.chat
github.com/aragon
Hiring

- React, UI Engineers (fulltime + contractors)
- Developer Relations (fulltime)

wiki.aragon.one/jobs
Aragon - The fight for freedom

https://www.youtube.com/watch?v=AqjIWmiAidw