



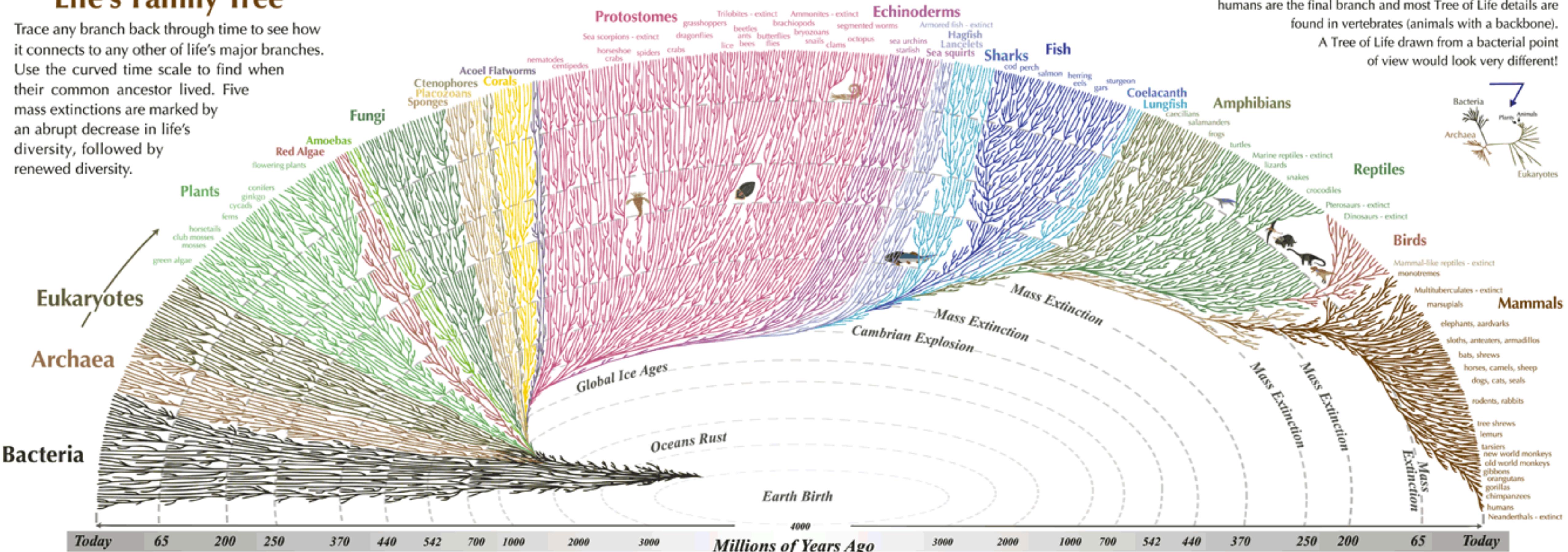
Brett Sun @sohkai

Building Modular Organizations

... and the governance structures underlying them

Life's Family Tree

Trace any branch back through time to see how it connects to any other of life's major branches. Use the curved time scale to find when their common ancestor lived. Five mass extinctions are marked by an abrupt decrease in life's diversity, followed by renewed diversity.



All the major and many of the minor living branches of life are shown on this diagram, but only a few of those that have gone extinct are shown. Example: Dinosaurs - extinct



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evogeneao.com

Experiment at the speed of *software*



Arc is an evolutionary framework for scalable governance



ADAPTIVE

Arc supports an infinite number of governance elements. Its library of schemes and global constraints will evolve as the DAOstack ecosystem grows, with new templates and modules developed and added by the open-source development community and third parties.



MODULAR

Every DAO's governance structure is made of small building blocks – governance modules, or elements – that can easily be added, combined, edited or removed. Modules do not need to be redeployed onto the blockchain, but rather only referred to, saving storage and operation costs and enhancing security.



UPGRADABLE

The governance structure of each DAO can easily be upgraded to use new schemes and constraints, or different parameters of existing ones. More granularly, each DAO created through Arc comes with a particular set of rules, which by default include the rules to change the rules.



DAOstack

Introducing Kelsen: easy governance for products, services and organizations.

Simple, transparent and incorruptible governance for everyone.

The screenshot shows the Kelsen platform's user interface. On the left, there is a vertical sidebar with icons: a dark blue circle at the top, followed by a horizontal line with three dots, a blue circle with a white dot, a blue circle with a white arrow, a blue square with a white arrow, and a blue square with a white minus sign. Above the sidebar, the word "COMMUNITY" is displayed next to a teal rounded rectangle containing a white circle icon. To the right of the sidebar is a large teal button labeled "Login". The main content area features three identical card-like components arranged horizontally. Each card has a small blue square icon with a white document symbol at the top left, followed by a "See details" button. Below this, the section title "Organ name" is shown in bold blue text, followed by the subtitle "PENDING PROCEDURES" in smaller blue text. A thin blue horizontal bar follows. Underneath, there are three procedure entries, each consisting of a "Procedure name" in bold blue text, a reference number "N°123456789", a date "15/09/17", and a timestamp "15/09/18".



Kelsen Easy governance for everyone





Welcome!

APPS

Home

Token Manager

Voting

Finance

Permissions

SOON

Apps

SOON

Settings

Welcome to Aragon 0.5 – The Architect

What do you want to do?



Assign Tokens



Vote



Check Finance



New Payment



Token

NGO

[Assign Tokens](#)

APPS

[Home](#)[Token Manager](#)[Voting](#)[Finance](#)[Permissions](#)

SOON

[Apps](#)

SOON

[Settings](#)

OWNER

0x772080b0D48De808dbE0F4050083B0f9205F6D29

YOU



0x15bdCb6651f5a5e9Cef07b2a981dd270BA505051



0xC43B0C4b6d227536238f071fBa7e624b2A632830



TOKEN INFO

Total Supply

3

OWNERSHIP DISTRIBUTION

Token Holder Stakes



- 0x772080b0D48De808... 33%
- 0x15bdCb6651f5a5e9Ce... 33%
- 0xC43B0C4b6d227536... 33%



Finance

[New Transfer](#)

APPS

[Home](#)[Token Manager](#)[Voting](#)[Finance](#)[Permissions](#)[Apps](#)[Settings](#)

Token Balances

	BCC	ETH	ZRX	DNT	ANT	MANA	SPANK	SNT	MKR
	26	3.14	453	137	0	0	0	0	0
	\$340,358.69	\$1,613.52	\$319.01	\$9.26	\$0	\$0	\$0	\$0	\$0

Transfers

TOKEN:

All

TRANSFER TYPE:

All

DATE	SOURCE / RECIPIENT	REFERENCE	AMOUNT	
13/04/18	0x61D463f2613F04053bc875C72aA9dA22348Da2b5	Food aid	-753 BCC	...
13/04/18	0x39a4D265db942361D92e2B0039cae73Ea72a2ff9	Requested airdrop (test tokens)	+453 ZRX	...
13/04/18	0x772080b0D48De808dbE0F4050083B0f9205F6D29	Ether transfer to Finance app	+3.14152 ETH	...
13/04/18	0x39a4D265db942361D92e2B0039cae73Ea72a2ff9	Requested airdrop (test tokens)	+137 DNT	...



Payroll

[Request salary](#)[My payroll](#)[Team payroll](#)

APPS

[Home](#)[Tokens](#)[Voting](#)[Groups](#)[Finance](#)[Payroll](#)[Fundraising](#)[Permissions](#)[Identity](#)[Settings](#)

Available salary

TIME SINCE LAST SALARY

AVAILABLE BALANCE

TOTAL TRANSFERRED

YOUR YEARLY SALARY

25D 01H 08M 28S

+\$6,245.52

\$45,352.27

\$80,000

Previous salary

DATE RANGE:

00/00/00 - 00/00/00

TOKEN:

All

[Edit salary allocation](#)

DATE	STATUS	TRANSACTION ADDRESS	AMOUNT	EXCHANGE RATE
10/03/17	Pending...	0xf29bf836...	+1000 ANT	\$6,234.98
10/05/17	Complete	0xf29bf836...	+2.32533 ETH	\$2,435.25
10/09/17	Complete	0xf29bf836...	+245.9024 ANT	\$601.35
10/10/17	Complete	0xf29bf836...	+5.32533 ETH	\$5,352.45
10/12/17	Complete	0xf29bf836...	+3.235 ETH	\$3,635.25
10/15/17	Complete	0xf29bf836...	+245.9024 ANT	\$723.40

SALARY ALLOCATION

Salary allocation





Vote

[New Vote](#)

APPS

Opened Votes 1

[Home](#)[Token Manager](#)[Voting](#)[Finance](#)[Permissions](#)

SOON

[Apps](#)

SOON

[Settings](#)

TIME REMAINING	QUESTION	TOTAL VOTES	PROGRESS	ACTIONS
⌚ 00D 23H:58M:14s	Should we fund disaster relief for victims of hurricane Irma?	33.33%	✓ ✗	View Vote

Closed Votes

STATUS	QUESTION	TOTAL VOTES	RESULT	ACTIONS
✓ Approved	Token Manager (ngo): Mint 1 tokens for 0xC43B0C4b6d227536238f071fBa7e624b2A632830	50%	✓ ✗	View Vote
✓ Approved	Should we help reimagine democracy in the United States of America?	50%	✓ ✗	View Vote
✓ Approved	Finance: Create a new payment of 753 BCC. It will be executed 1 times at intervals of 0 days	50%	✓ ✗	View Vote
✓ Approved	Token Manager (ngo): Mint 1 tokens for 0x15bdCb6651f5a5e9Cef07b2a981dd270BA505051	100%	✓ ✗	View Vote



APPS

Home

Survey

 Permissions SOON Apps SOON

Settings

How should the following features be prioritized?

OPTIONS



TIME REMAINING

Time out

DESCRIPTION

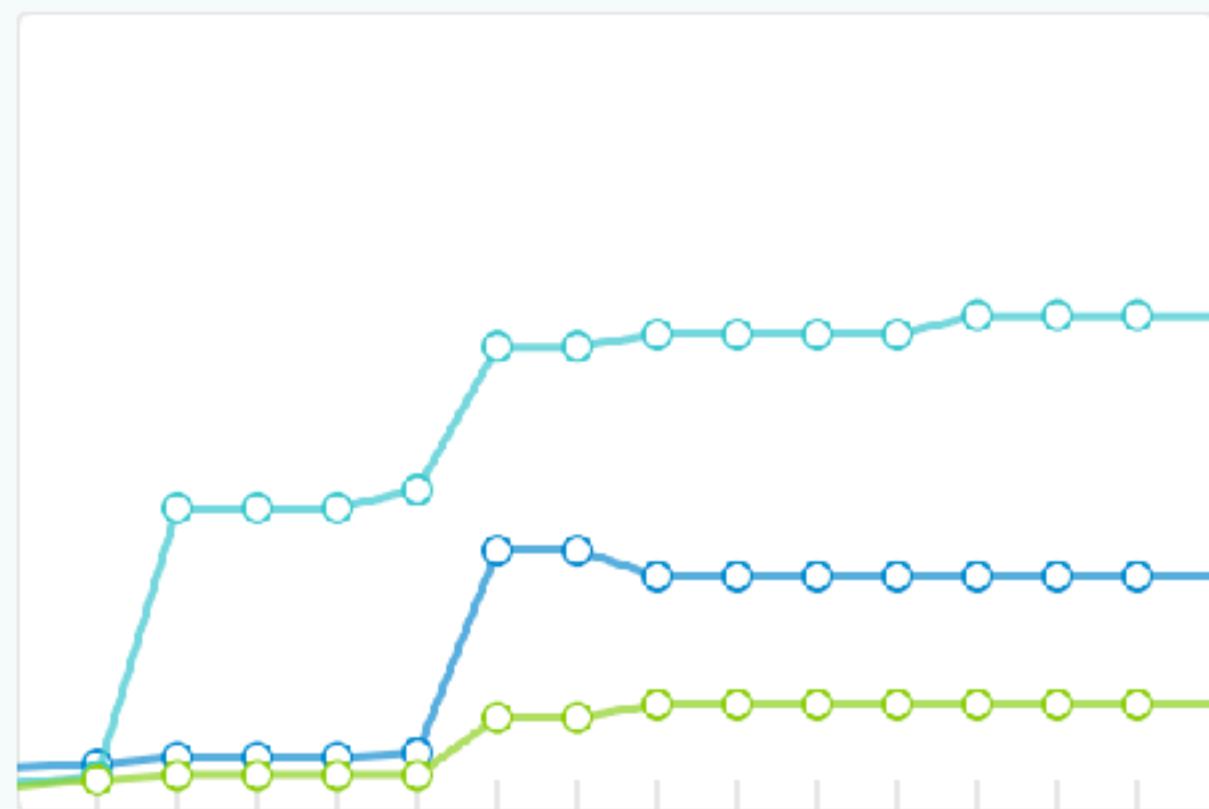
This proposal is intended to discuss and gauge sentiment of the community on how to prioritize between 3 short term features for Aragon Core.

WEB LINK

<https://github.com/aragon/governance/issues/19>

SURVEY SUMMARY

Votes



Votes cast so far

● Identity	726
● Permissions app	1765
● App Manager	319

Vote

New Vote

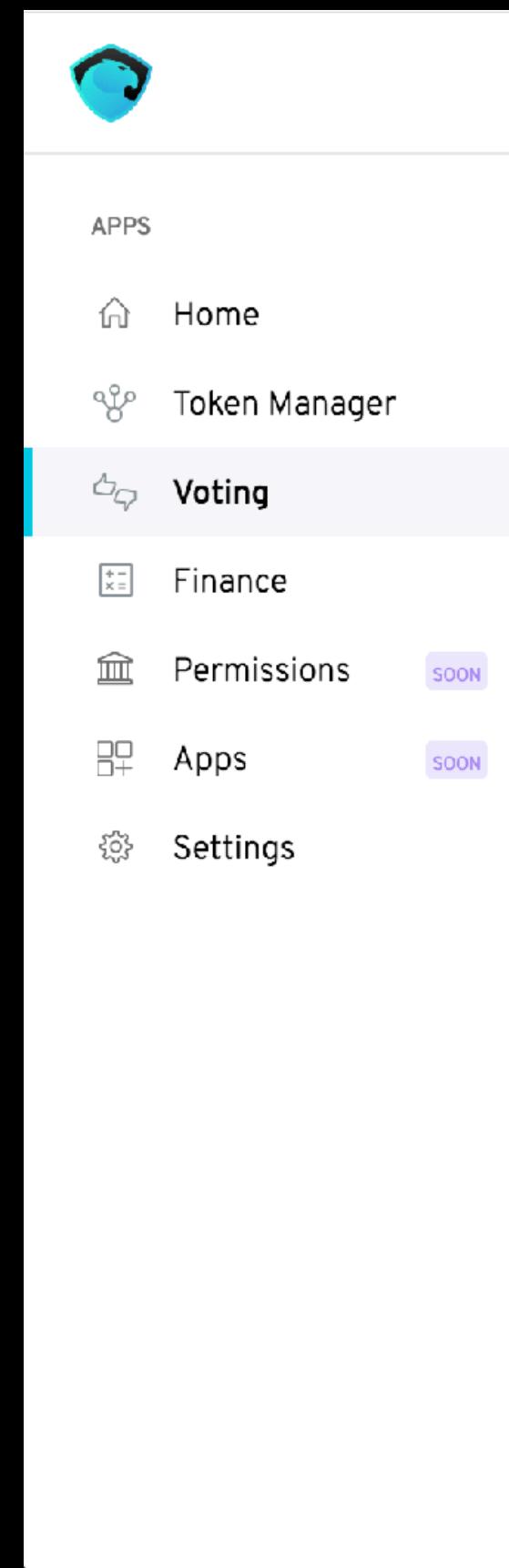
Opened Votes 1

TIME REMAINING	QUESTION	TOTAL VOTES	PROGRESS	ACTIONS
00 D 23 H : 58 M : 14 S	Should we fund disaster relief for victims of hurricane Irma?	33.33%	<div style="width: 33.33%;">✓ ✗</div>	<button>View Vote</button>

Closed Votes

STATUS	QUESTION	TOTAL VOTES	RESULT	ACTIONS
✓ Approved	Token Manager (ngo): Mint 1 tokens for 0xC43B0C4b6d227536238f071fBa7e624b2A632830	50%	<div style="width: 50%;">✓ ✗</div>	<button>View Vote</button>
✓ Approved	Should we help reimagine democracy in the United States of America?	50%	<div style="width: 50%;">✓ ✗</div>	<button>View Vote</button>
✓ Approved	Finance: Create a new payment of 753 BCC. It will be executed 1 times at intervals of 0 days	50%	<div style="width: 50%;">✓ ✗</div>	<button>View Vote</button>
✓ Approved	Token Manager (ngo): Mint 1 tokens for 0x15bdCb6651f5a5e9Cef07b2a981dd270BA505051	100%	<div style="width: 100%;">✓ ✗</div>	<button>View Vote</button>

Core



Sandboxed app

The Sandboxed app's 'Vote' interface. At the top right is a 'New Vote' button. Below it is a section titled 'Opened Votes' with one item listed:

TIME REMAINING	QUESTION	TOTAL VOTES	PROGRESS	ACTIONS
00D 23H:58M:14S	Should we fund disaster relief for victims of hurricane Irma?	33.33%	<div style="width: 33.33%; background-color: green;"></div> <div style="width: 66.67%; background-color: red;"></div>	<button>View Vote</button>

Below this is a section titled 'Closed Votes' with four items listed:

STATUS	QUESTION	TOTAL VOTES	RESULT	ACTIONS
✓ Approved	Token Manager (ngo): Mint 1 tokens for 0xC43B0C4b6d227536238f071fBa7e624b2A632830	50%	<div style="width: 50%; background-color: green;"></div> <div style="width: 50%; background-color: red;"></div>	<button>View Vote</button>
✓ Approved	Should we help reimagine democracy in the United States of America?	50%	<div style="width: 50%; background-color: green;"></div> <div style="width: 50%; background-color: red;"></div>	<button>View Vote</button>
✓ Approved	Finance: Create a new payment of 753 BCC. It will be executed 1 times at intervals of 0 days	50%	<div style="width: 50%; background-color: green;"></div> <div style="width: 50%; background-color: red;"></div>	<button>View Vote</button>
✓ Approved	Token Manager (ngo): Mint 1 tokens for 0x15bdCb6651f5a5e9Cef07b2a981dd270BA505051	100%	<div style="width: 100%; background-color: green;"></div> <div style="width: 0%; background-color: red;"></div>	<button>View Vote</button>

But that's not all... 



Finance

APPS

[Home](#)[Token Manager](#)[Voting](#)[Finance](#)[Permissions](#)

SOON

[Apps](#)

SOON

[Settings](#)

Token Balances

BCC

26

\$16,938.11

ETH

3.14

\$1,481.15

ZRX

453

\$557.47

DNT

137

\$5.37

ANT

0

\$0

Transfers

DATE

SOURCE / RECIPIENT

REFERRER

13/04/18

[0x61D463f2613F04053bc875C72aA9dA22348Da2b5](#)

Food aid

13/04/18

[0x39a4D265db942361D92e2B0039cae73Ea72a2ff9](#)

Request

13/04/18

[0x772080b0D48De808dbE0F4050083B0f9205F6D29](#)

Ether tra

13/04/18

[0x39a4D265db942361D92e2B0039cae73Ea72a2ff9](#)

Request

New Transfer

RECIPIENT (MUST BE A VALID ETHEREUM ADDRESS) *

AMOUNT

DAI ▾

REFERENCE

[Submit Transfer](#)



Finance

APPS

[Home](#)[Token Manager](#)[Voting](#)[Finance](#)[Permissions](#)

SOON

[Apps](#)

SOON

[Settings](#)

Token Balances

	BCC	ETH	ZRX	DNT	ANT	C
26	3.14	453	137	0	0	0
\$16,938.11	\$1,481.15	\$557.47	\$5.37	\$0	\$0	\$0

Transfers

DATE	SOURCE / RECIPIENT	REFERRER
13/04/18	0x61D463f2613F04053bc875C72aA9dA22348Da2b5	Food aid
13/04/18	0x39a4D265db942361D92e2B0039cae73Ea72a2ff9	Request
13/04/18	0x772080b0D48De808dbE0F4050083B0f9205F6D29	Ether tra
13/04/18	0x39a4D265db942361D92e2B0039cae73Ea72a2ff9	Request

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.

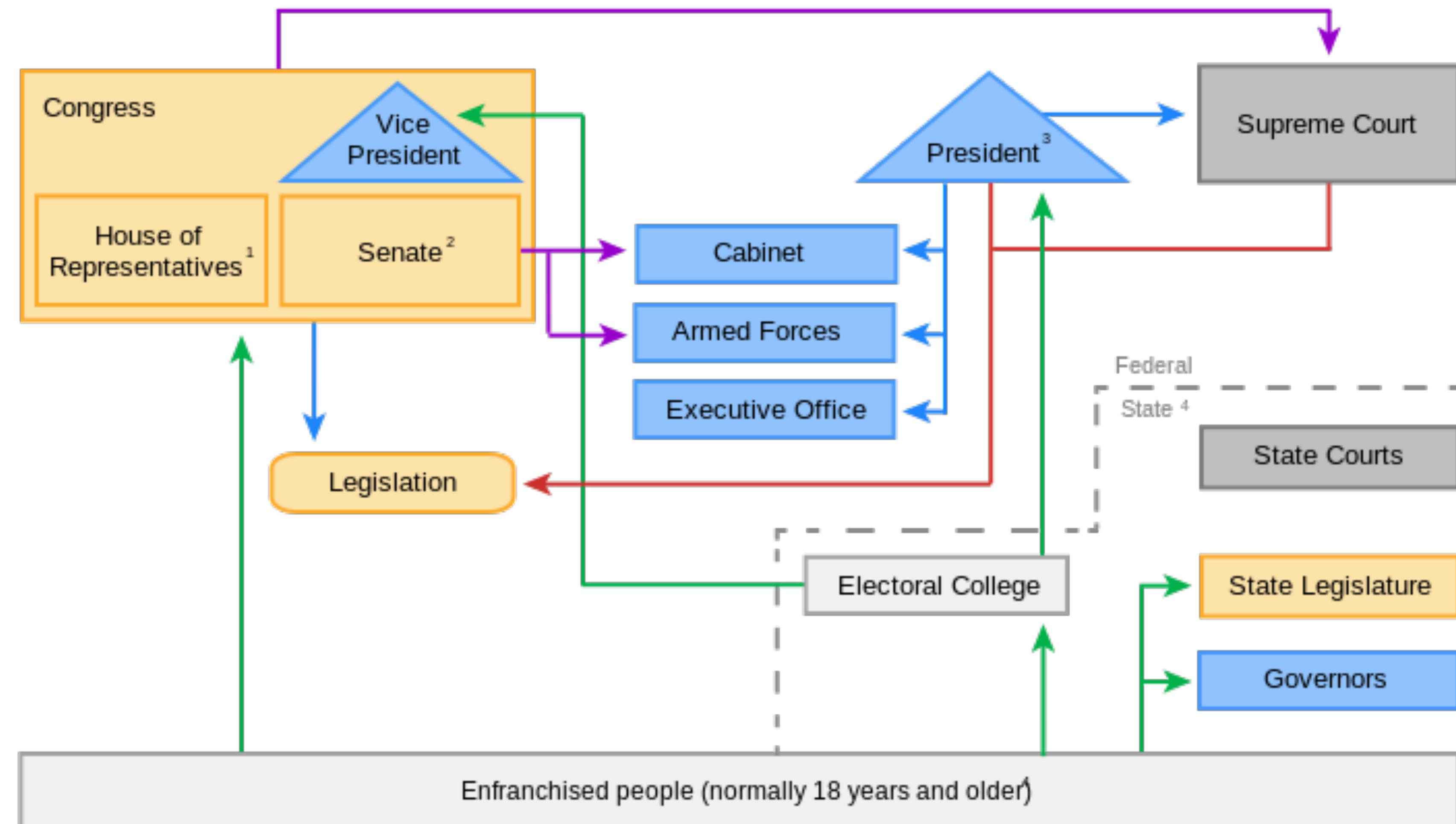
Tokens (XVT) → Voting (ANT)

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](#)



Legislative branch

Executive branch

Judicial branch

elects

appoints or controls

veto-power / can repeal⁵

approves

1: Elections are every 2 years. Apportionment is based on each states' population

2: Each state is represented with 2 senators. Senators serve 6-year-terms, but one-third of the seats are up for election every two years

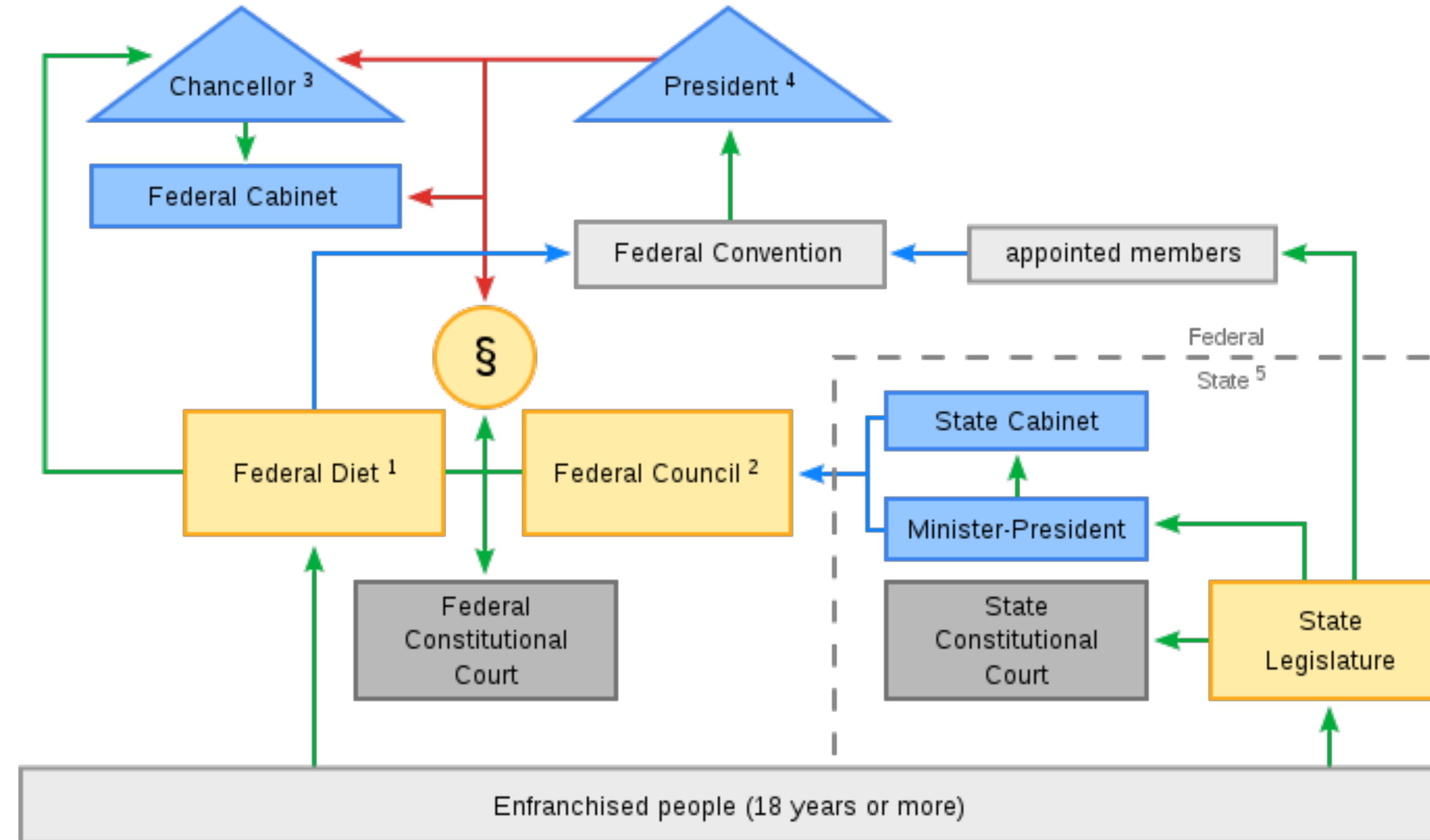
3: Head of state and government, as well as commander-in-chief

4: The state levels can vary from state to state

5: Presidential vetos can be overridden by a two-thirds vote in both house.

The Supreme Court can declare laws as unconstitutional and thereby repeal them





Legislative branch

elects / appoints

Executive branch

sends / member of

Judicial branch

formally appoints / veto-power

1: Every 4 years, election of direct mandates and parties

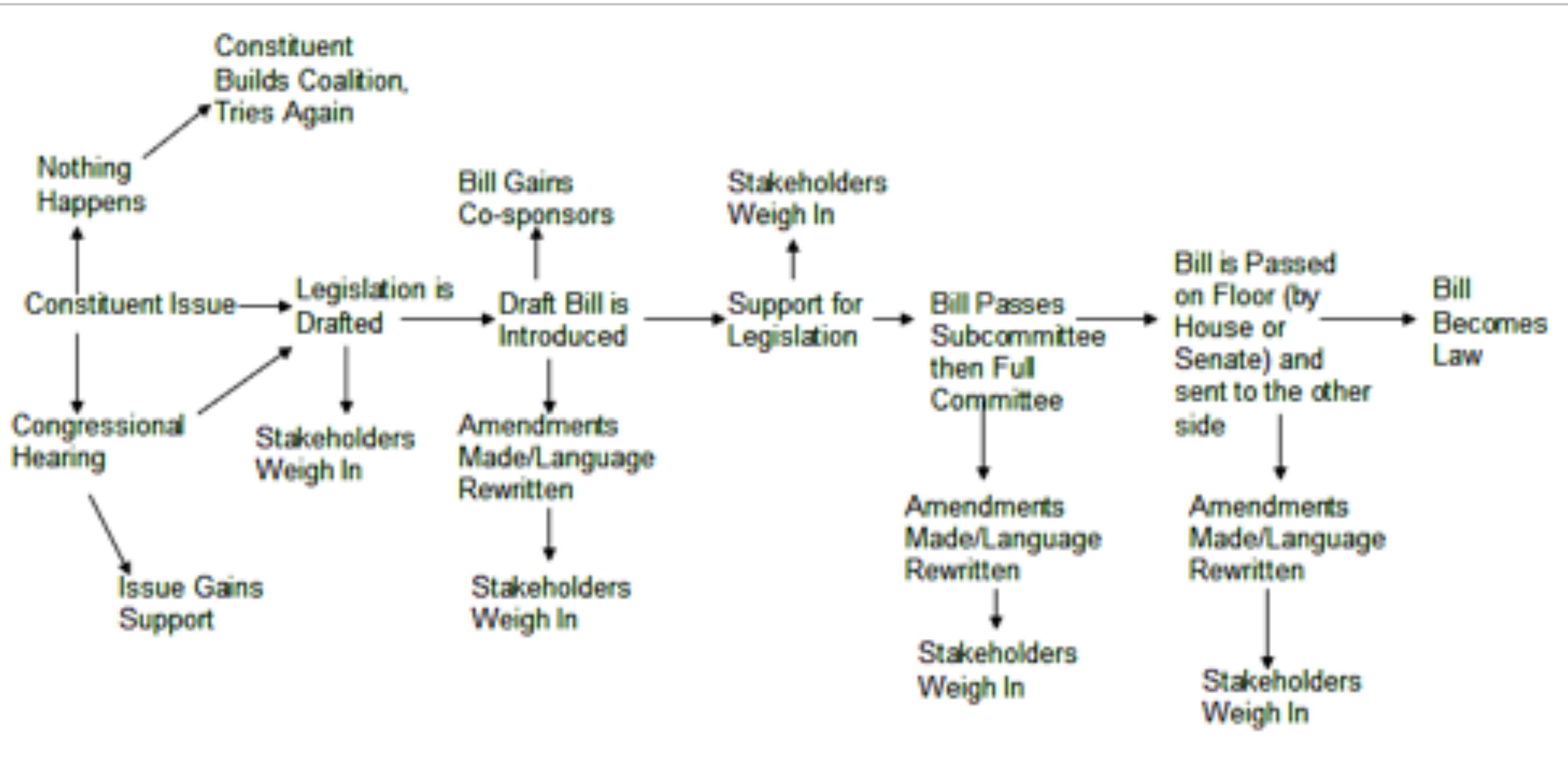
2: State chamber. Apportionment is based on each states' population

3: Head of government with policy-making power. Is proposed by the President

4: Head of state. "Neutral power" – only in state of emergency increased power

5: The state levels and the names of the organs vary widely from state to state





```
1 contract DAOFactory {
2     function newDAO(address root) public returns (Kernel) {
3         Kernel dao = new Kernel();
4         dao.initialize(root); // Assume this also creates an ACL for the DAO
5
6         ACL acl = ACL(dao.acl());
7
8         Vault vault = Vault(dao.newAppInstance("vault"));
9         Voting voting = Voting(dao.newAppInstance("voting"));
10        Finance finance = Finance(dao.newAppInstance("finance"));
11        TokenManager tokenManager = TokenManager(dao.newAppInstance("token-manager"));
12
13        acl.createPermission(finance, vault, vault.TRANSFER_ROLE());
14        acl.createPermission(voting, finance, finance.CREATE_PAYMENTS_ROLE());
15        acl.createPermission(voting, finance, finance.EXECUTE_PAYMENTS_ROLE());
16        acl.createPermission(voting, tokenManager, tokenManager.MINT_ROLE());
17        acl.createPermission(voting, tokenManager, tokenManager.ASSIGN_ROLE());
18
19        return dao;
20    }
21 }
```

Factory: <https://github.com/aragon/dao-kits/blob/master/kits/beta/contracts/BetaTemplateBase.sol>

Permissions

Access Control List (ACL):

```
1 - interface IACL {
2     function initialize(address permissionsCreator) external;
3     function hasPermission(
4         address who,
5         address where,
6         bytes32 what
7     ) external view returns (bool);
8
9     /* Non-interface suggestions for implementations:
10
11    function createPermission(address who, address where, bytes32 what) external;
12    function grantPermission(address who, address where, bytes32 what) external;
13    function revokePermission(address who, address where, bytes32 what) external;
14 */
15 }
```

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) {  
}
```

Implementation: <https://github.com/aragon/aragon-apps/blob/master/apps/voting/contracts/Voting.sol>

Forwarders

Escalating requests to other modules:

```
4 interface IForwarder {  
5     function isForwarder() public pure returns (bool);  
6     function canForward(address sender, bytes evmCallScript) public view returns (bool);  
7     function forward(bytes evmCallScript) public;  
8 }
```

Interface: <https://github.com/aragon/aragonOS/blob/dev/contracts/common/IForwarder.sol>

Forwarders

```
1 - contract Voting is IForwarder, AragonApp {
2 -     function isForwarder() public pure returns (bool) {
3 -         return true;
4 -     }
5 -
6 -     function canForward(address _sender, bytes _evmCallScript) public view returns (bool) {
7 -         return auth(_sender, CREATE_VOTES_ROLE);
8 -     }
9 -
10 -    /**
11 -     * @notice Creates a vote to execute the desired action, and casts a support vote
12 -     * @dev IForwarder interface conformance
13 -     * @param evmScript Start vote with script
14 -     */
15 -    function forward(bytes evmScript) public {
16 -        require(canForward(msg.sender, _evmScript));
17 -
18 -        // Boom 💥
19 -        newVote(evmScript);
20 -    }
21 }
```

Implementation: <https://github.com/aragon/aragon-apps/blob/master/apps/voting/contracts/Voting.sol>

EVMScripts

```
1 interface IEVMScriptExecutor {
2     function execScript(bytes script) external returns (bytes);
3 }
4
5 contract CallsScript is IEVMScriptExecutor {
6
7     /**
8      * @param _script, in the bytes format of:
9      *      [ specId (uint32) ]
10     *      many calls with this structure ->
11     *          [ to (address: 20 bytes) ] [ calldataLength (uint32: 4 bytes) ] [ calldata (calldataLength bytes) ]
12     */
13     function execScript(bytes _script) external returns (bytes) {
14
15     }
16 }
```

Interface: <https://github.com/aragon/aragonOS/blob/dev/contracts/evmscript/IEVMScriptExecutor.sol>

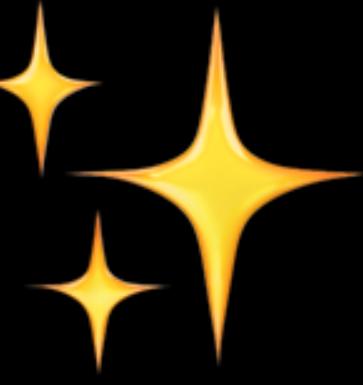
Implementation: <https://github.com/aragon/aragonOS/blob/dev/contracts/evmscript/executors/CallsScript.sol>

EVMScripts

Running a script: execScript()

```
1 contract Voting is IForwarder, AragonApp {  
2     function executeVote(uint256 voteId) public {  
3         require(canExecuteVote(voteId));  
4         Vote storage vote = votes[voteId];  
5         vote.executed = true;  
6  
7         // Boom 💥  
8         execScript(vote.executionScript);  
9     }  
10 }
```

Implementation: <https://github.com/aragon/aragon-apps/blob/master/apps/voting/contracts/Voting.sol>





Finance

APPS

[Home](#)[Token Manager](#)[Voting](#)[Finance](#)[Permissions](#)

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Token Balances

	BCC	ETH	ZRX	DNT	ANT	C
26	3.14	453	137	0	0	0
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This transaction would eventually perform a payment to address [0x52b...1ka11](#) Estimated payment cost [?](#)

[Sign Transaction](#)

✨ by:

- function hasPermission(
 address who,
 address where,
 bytes32 what
) returns (bool);
- function forward(bytes evmScript);
- function execScript(bytes evmScript)
returns (bytes);

Experiment at the speed of *software*

hack.aragon.one

3 Steps to Governance

```
1 // 1. Inherit from AragonApp
2 contract App is AragonApp {
3
4     // 2. Define some roles
5     bytes32 constant public REALLY_IMPORTANT_ROLE = keccak256("REALLY_IMPORTANT_ROLE");
6
7     // 3. Use auth()
8     function doSomethingReallyCool(uint256 voteId) public auth(REALLY_IMPORTANT_ROLE) {
9
10    }
11
12    // Boom 💥
13 }
```

Tutorial: <https://hack.aragon.org/docs/tutorial.html>

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@codecontext

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Painless add upgradeability and gui-managed-ACL to my hobby project, with 10 LoC contract. Thanks @AragonProject 🙌 github.com/adriamb/bcmemb ...

6:12 PM - 15 Feb 2018

2 Retweets 10 Likes



2



10



10



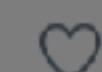
Tweet your reply

**Adrià Massanet** @codecontext · Feb 15

Painless add upgradeability and gui-managed-ACL to my hobby project, with 10 LoC contract. Thanks @AragonProject 🙌 github.com/adriamb/bcmemb...



2



10



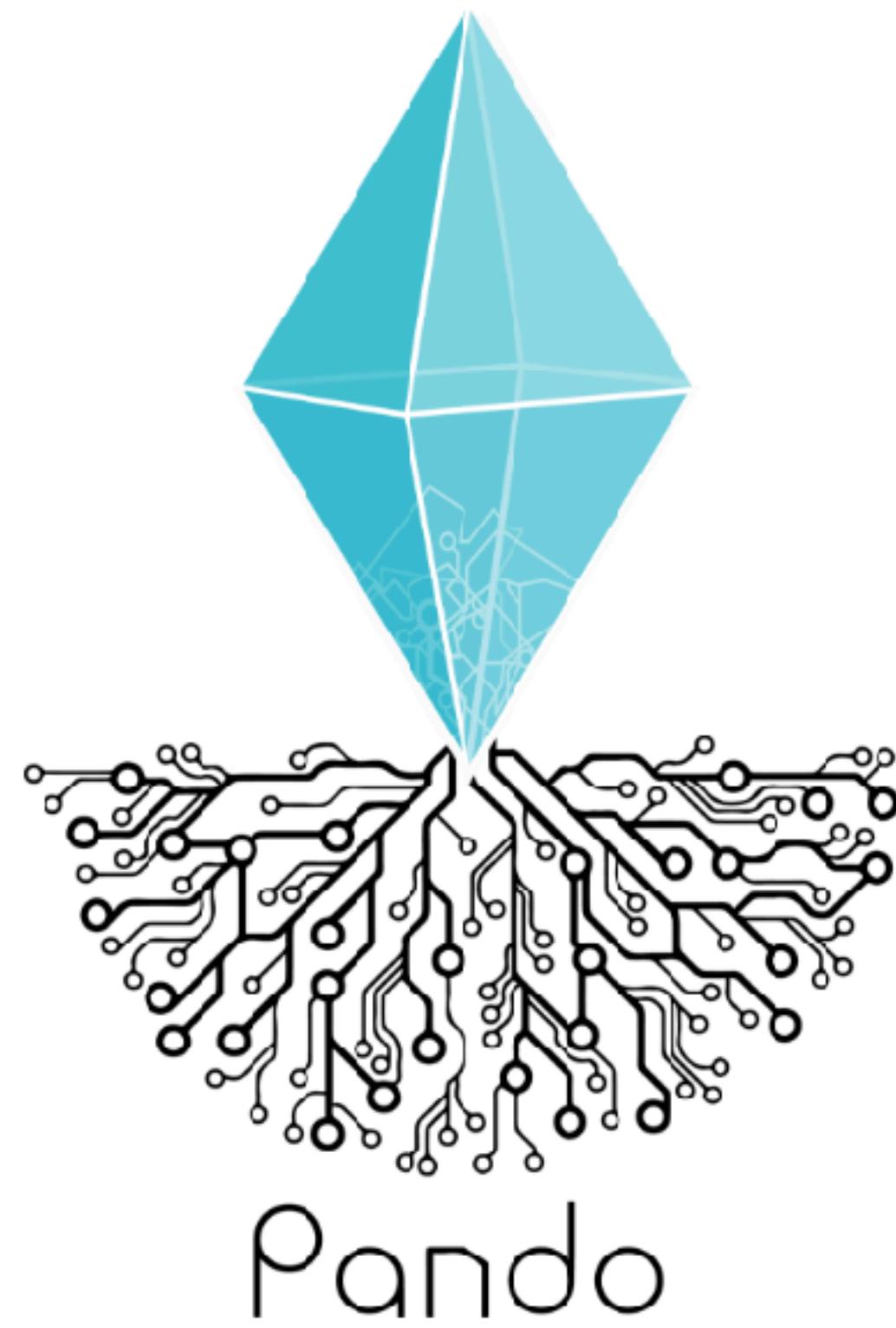
10



Adrià Massanet Retweeted

**Chris** @ethchris · Feb 15

#Solidity will move away from JavaScript-inherited function-level scoping and hoisting in version 0.5.0:



Pando is distributed [versioning control system](#) enforcing [DAO-based versioning](#), contribution tracking and governance. It is built on top of [IPFS](#), [ethereum](#) and [aragonOS](#).

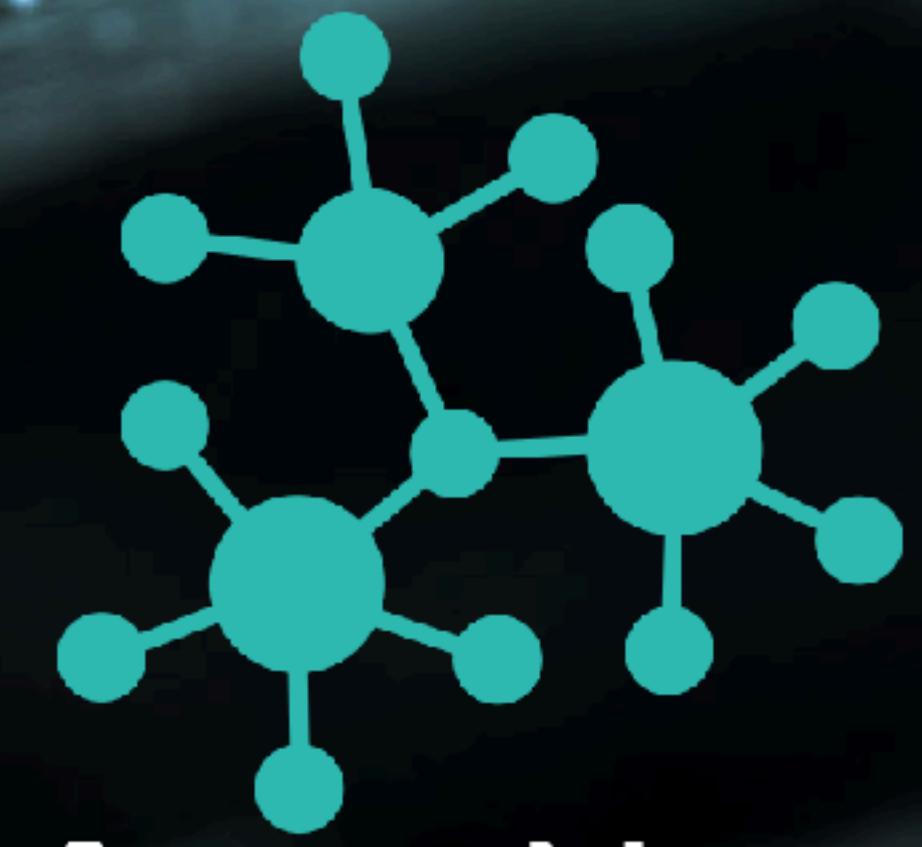
This repository is a monorepo including pando related smart contracts, libraries and tools. Each public sub-package is independently published to NPM.

```
[~/D/d/d/test >>> vim test.md
[~/D/d/d/test >>> pando stage test.md
  Modifications staged
[~/D/d/d/test >>> pando commit -m 'First commit'
  Modifications snapshot with cid zdpuAnMxwT1DrdTGwNiop3WmUaoraudwru6vkxkoVMCwOJ8dF
[~/D/d/d/test >>> pando remote deploy origin
  Remote 'origin' deployed at address 0xb82f6d410e34d83597669338308707054a54ee89
[~/D/d/d/test >>> pando remote show origin
```

Component	Address
Kernel	0xb82f6d410e34d83597669338308707054a54ee89
ACL	0x3fb1a86cdd96e4373985d30af6db9a38fc169e0
Tree	0x8f524ad69a3202e2495a0b8068000f8a27372d1e
Branch	Head
master	undefined

```
[~/D/d/d/test >>> pando push origin master
  Modifications pushed at tx 0x15ae9f8432d28e10f60a1f47260b289b7cd9a060ab8eebeebc814631b4619d8a
[~/D/d/d/test >>>
```

```
[~/D/d/d/test2 >>> pando init
Repository initialized at /Users/osarrouy/Documents/devs/dapps/test2
[~/D/d/d/test2 >>> pando config
[?] Enter an Ethereum node URL: http://localhost:8545
? Select an account: 0xB8B6ccf6DbF56a51f04Ceee5c88ba7F0eBF783bB
Local pando configuration updated
[~/D/d/d/test2 >>> pando remote add origin 0xb82f6d410e34d83597669338308707054a54ee89
Remote 'origin' added
[~/D/d/d/test2 >>> pando pull origin master
Modifications pulled from 'origin:master'
[~/D/d/d/test2 >>> ls
test.md
[~/D/d/d/test2 >>> cat test.md
Hi there !
[~/D/d/d/test2 >>> vim test.md
[~/D/d/d/test2 >>> mkdir dir
[~/D/d/d/test2 >>> vim dir/test2.md
[~/D/d/d/test2 >>> pando stage test.md dir/test2.md
Modifications staged
[~/D/d/d/test2 >>> pando commit -m 'Second commit'
Modifications snapshot with cid zdpuB1VJJSHAwnthY8iSdui2qVuQq23j7DuBfjZWjj8jLxt5f
[~/D/d/d/test2 >>> pando push origin master
You do not own PUSH role over remote 'origin'
~/D/d/d/test2 >>>
```



DAppNode

Connect to
the decentralized
Internet

[INSTALL NOW](#)

Andy Milenius will be presenting about Circles: Universal Basic Income on



Jorge Izquierdo

@izqui9

Following



Mr @jbaylina just deployed the first @AragonProject DAO in the Ethereum mainnet. It is an Aragon Package Manager Registry that will be the backend of @DAppNODE's Docker image registry. dnp.dappnode.eth is now owned and operated by a DAO

[etherscan.io/tx/0xa1ce5838e ...](https://etherscan.io/tx/0xa1ce5838e...)

9:41 AM - 15 Mar 2018

68 Retweets 210 Likes



7



68



210



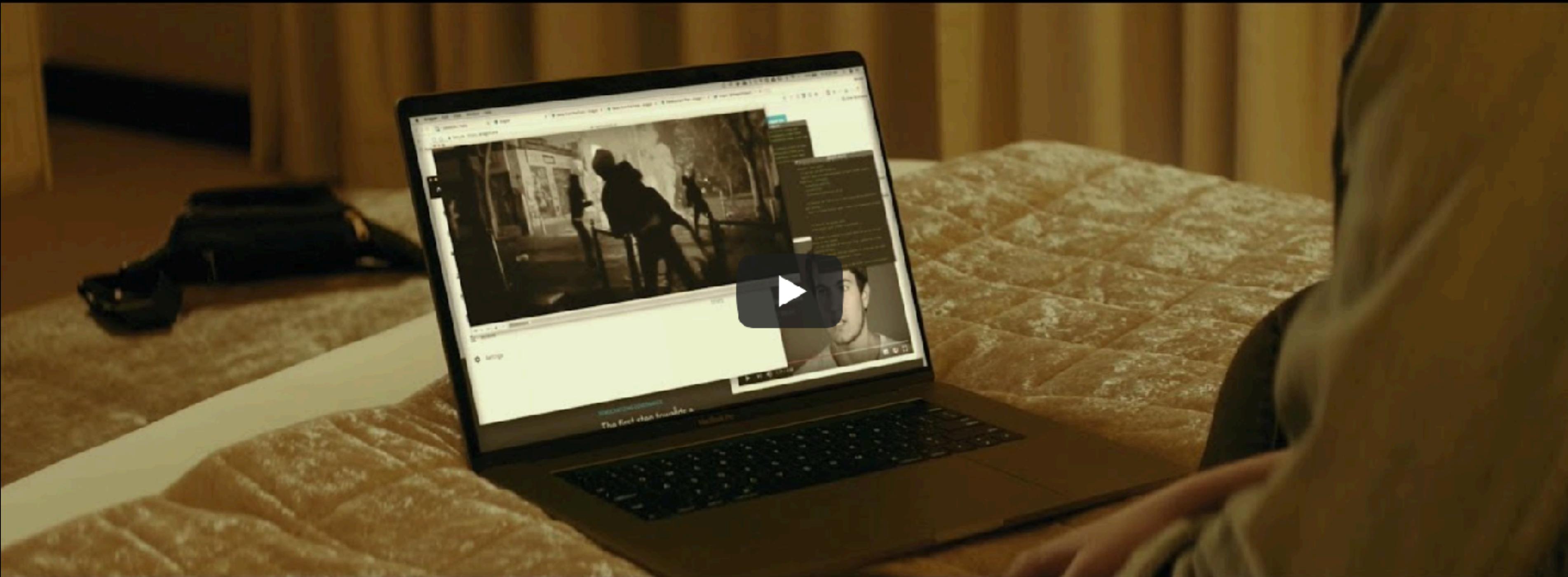
Tweet your reply



Thank you!

@sohkai

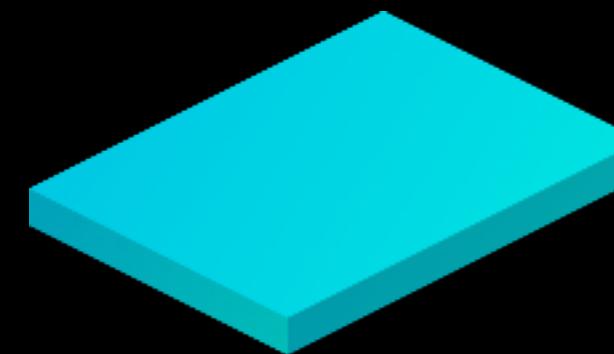
Aragon - The Fight for Freedom



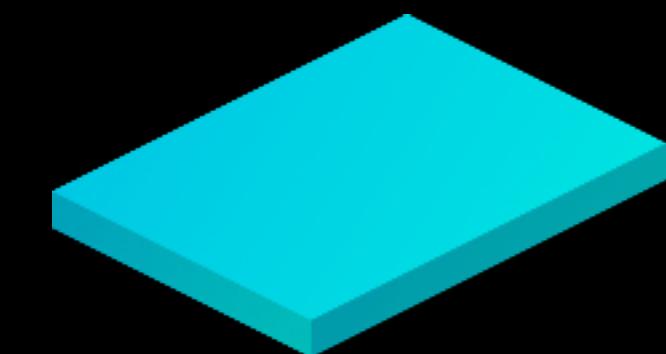
5:51

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

DOM



Wrapper UI



App UI

JS

UI Framework

UI Framework

Script

Aragon.js server

Aragon Client

Aragon Client

Cache

Msg handler

Messenger

Messenger

Web3

Messenger

EVM

Kernel

ACL

EVM Scripts

App 1

App 2

App 3