Building an Aragon App
An Aragon App uses standard interfaces to support governance and upgradeability.
Governance as an interface: Defines how entities can perform actions

```plaintext
interface IACL {
  function hasPermission(address who, address where, bytes32 what, bytes how) public view returns (bool);
}
```
Aragon Tech Lead wants to transfer 100 ETH to Payroll contract.

Voting for the transfer starts with the Payroll contract sending 100 ETH. The Payroll contract then calls the canPerform function with the arguments: tech lead, vault, transfer, 100 ETH. This function checks if the tech lead has the necessary permissions to perform the transfer.

If the DAO ACL permissions allow the tech lead to perform the transfer, the transfer will proceed. If not, the transfer is blocked.

The voting process involves voting holders of the ANT token. If a majority votes YES, the transfer is executed. If a majority votes NO, the transfer is not executed.

The pathTo function in aragon.js is used to traverse the ACL, determining the authorized path for the transfer.
Aragon Tech Lead wants to transfer 100 ETH to Payroll contract

**Path:**
```
aragon.js
```

**Traverse ACL:**
```
pathTo(transfer(ETH, Payroll, 100))
```

**Aragon Tech Lead**
- Transfer (ETH, Payroll, 100) not authorized
- Voting forward (transferScript) authorized

**Aragon DAO Vault contract**
- Sends 100 ETH

**Aragon DAO Voting contract**
- Vote passed, executes script

**Aragon DAO ACL**
- DAO main address
- DAO ACL permissions:
  - exec team, vault, transfer, ANT voting (ANT), vault, transfer, any token

**Aragon DAO Kernel**
- canPerform(tech lead, vault, transfer, 100 eth)
- canPerform(voting app, vault, transfer, 100 eth)

**ANT holder**
- Vote YES
- Vote NO

**ANT holder**
- Vote YES
### 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>$1,823.28</td>
</tr>
<tr>
<td>ZRX</td>
<td>453</td>
<td>$584.37</td>
</tr>
<tr>
<td>DNT</td>
<td>137</td>
<td>$8.87</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>0x61d463f2613f04053bc875c72a9d22348da2b5</td>
<td>Food aid</td>
<td>-753 BCC</td>
</tr>
<tr>
<td>13/04/18</td>
<td>0x39a4d265db942361d9e2b0039cae73e72a2ff9</td>
<td>Requested airdrop (test tokens)</td>
<td>+453 ZRX</td>
</tr>
<tr>
<td>13/04/18</td>
<td>0x772080b0d48de080b0f4050083b0f9205f6d29</td>
<td>Ether transfer to Finance app</td>
<td>+3,14152 ETH</td>
</tr>
<tr>
<td>13/04/18</td>
<td>0x39a4d265db942361d9e2b0039cae73e72a2ff9</td>
<td>Requested airdrop (test tokens)</td>
<td>+137 DNT</td>
</tr>
<tr>
<td>13/04/18</td>
<td>0x39a4d265db942361d9e2b0039cae73e72a2ff9</td>
<td>Requested airdrop (test tokens)</td>
<td>+779 BCC</td>
</tr>
</tbody>
</table>
webworker

script.js

script.js

script.js

webworker
EVM

contract.sol

script.js

contract.sol

script.js

contract.sol

script.js
Let’s make that simpler with a quick demo
Going to #Buidl at ETHBuenosAires?

Come join the Aragon Team for drinks 🍺
Monday May 28th 3:00pm-6:30pm
Strange Brewing, Delgado 658, C1426BDH CABA

Special Surprise