

I found a way to empower you!



regardless who you are or where you come from



Record number of environmental activists murdered

By Claire Marshall
BBC Environment & Rural Affairs Correspondent

13 September 2021

Amazon fires



ROB SYMONS, ALL RISE
| South African environmental activist Fikile Ntshangase was shot dead in her own home

A record number of activists working to protect the environment and land rights were murdered last year, according to a report by a campaign group.



Greta Thunberg says school strikes have achieved nothing

Activist says 4% greenhouse gas emissions rise since 2015 shows action is insufficient



| Greta Thunberg holds a news conference in Madrid where the COP25 climate summit is being held. Photograph: Sergio Pérez/Reuters

The global wave of school strikes for the climate over the past year has “achieved nothing” because greenhouse gas emissions have continued to rise, [Greta Thunberg](#) has told activists at UN climate talks in Madrid.

Greenpeace outpowered by US Navy (anti nuke protest)





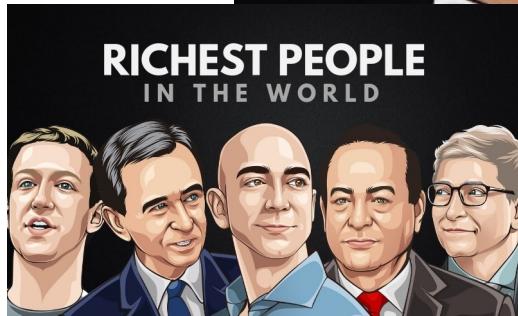
RICHEST POLITICIANS IN THE WORLD



Billionaire Peter Thiel Says Bitcoin Could Rise 100x – Unveils BTC's Enemy List With Warren Buffett at Top – Featured Bitcoin News



ElonJet
@ElonJet



Cambridge Analytica



[HOME](#) • [MOST EXPENSIVE](#) • [MOTIVATION](#) • [NET WORTH](#) • [QUOTES](#) • [TOP LIST](#)

TOP LISTS

The 20 Richest Politicians in the World



Published 1 month ago on Apr 3, 2022
By Emmy Wallin

Dictionary

Definitions from [Oxford Languages](#) · [Learn more](#)

Search for a word

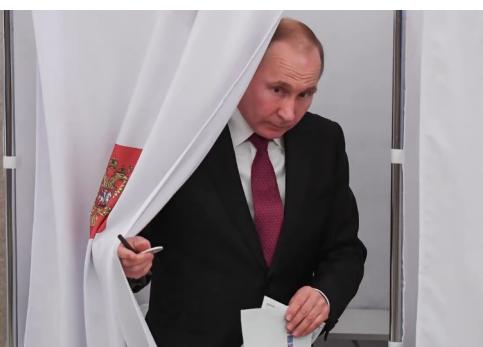


democracy

/dɪ'mɒkrəsi/

noun

a system of government by the whole population or all the eligible members of a state, typically through elected representatives.
"a system of parliamentary democracy"



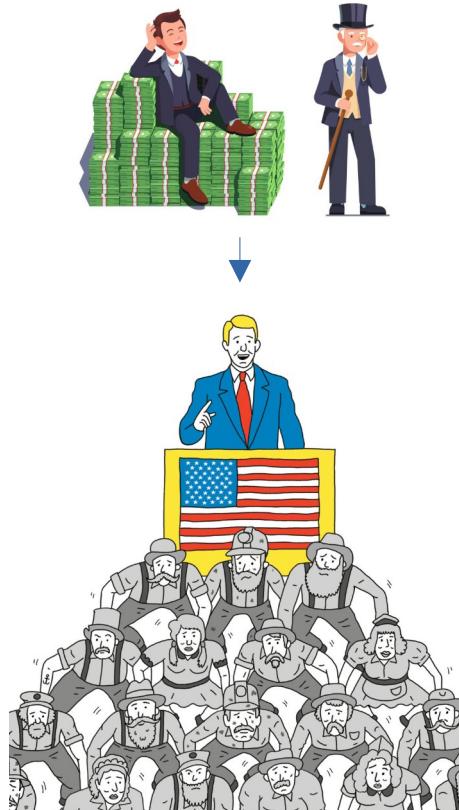
You can change all of this!

You can change all of this!

Now!

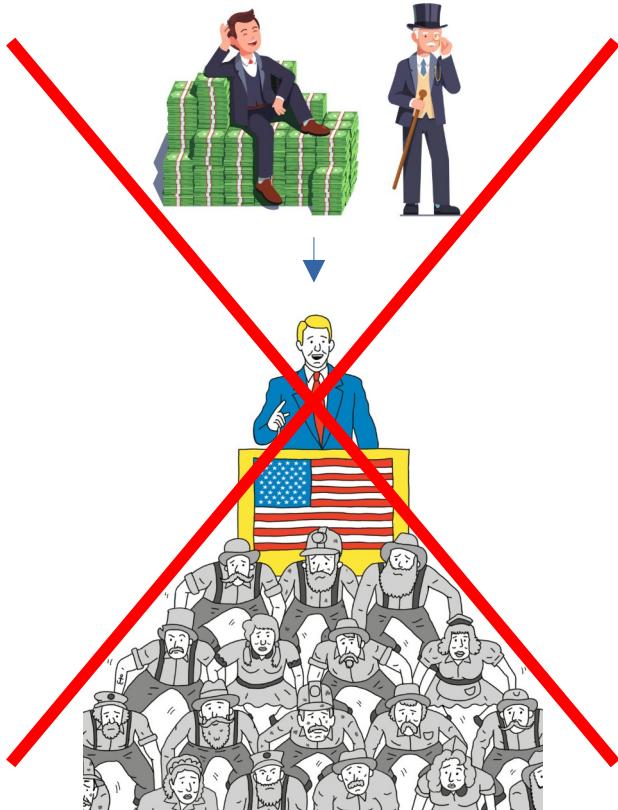
Democracy

How it is



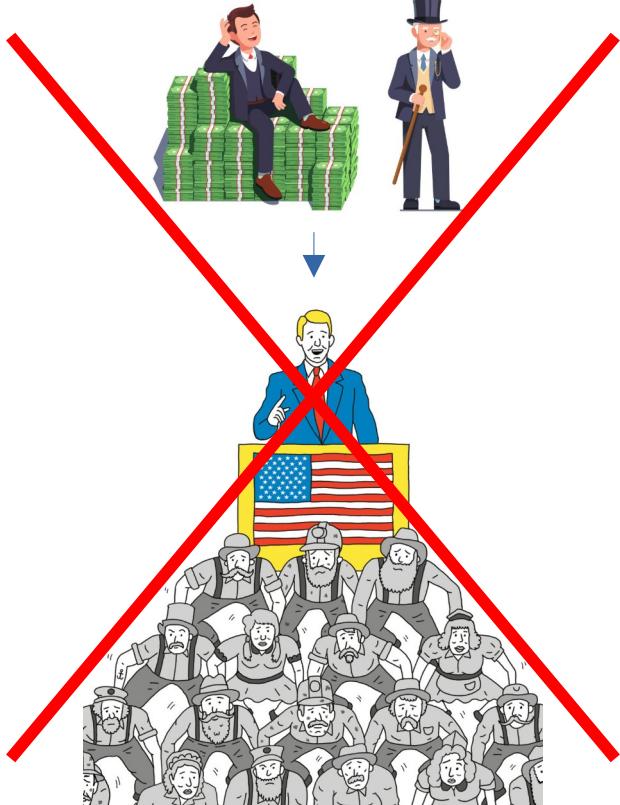
Democracy

How it is

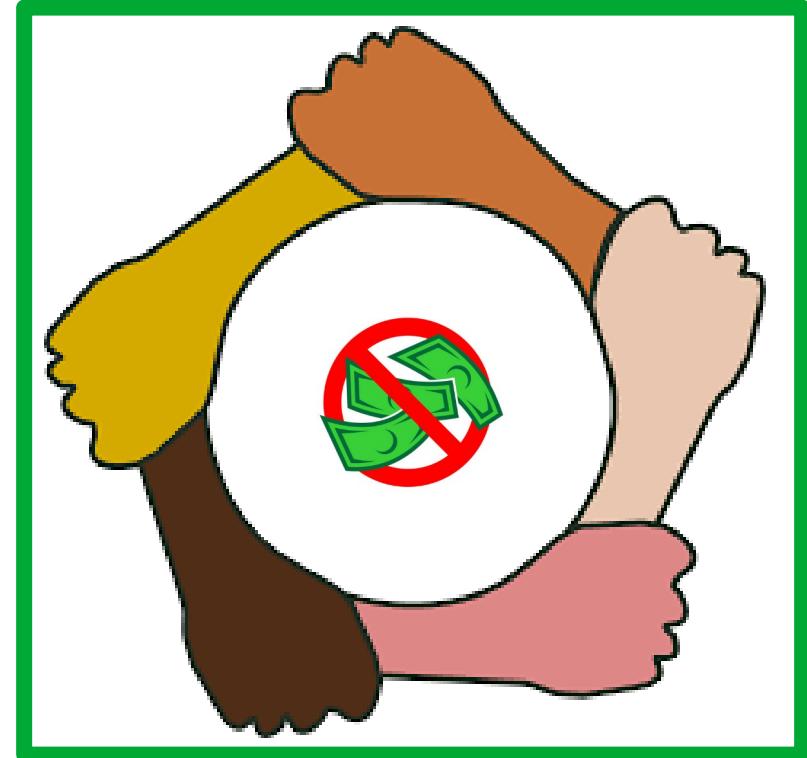


Democracy

How it is



How it should be



Counter Misinformation & Fact Denial



Let's just
quickly
verify that!

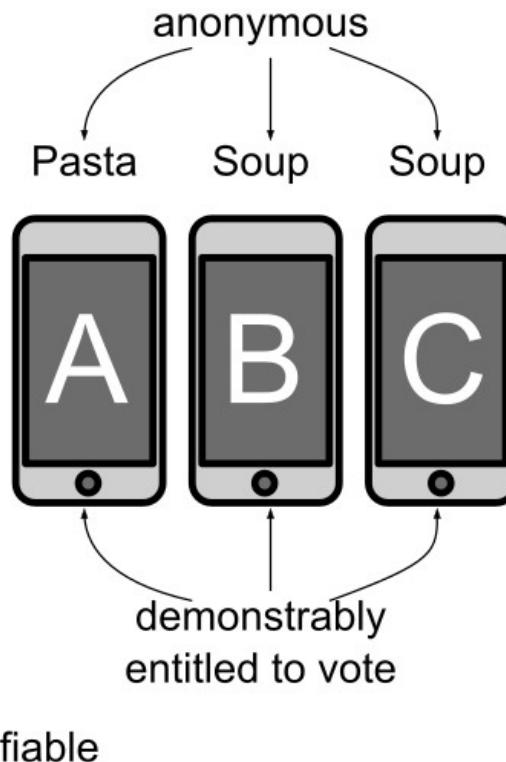
The subject of this presentation:

Software for Secure Voting & Polling

What do
you want
for dinner?



You voted:
1x Pasta
2x Soup



offline,
256 digit
numbers



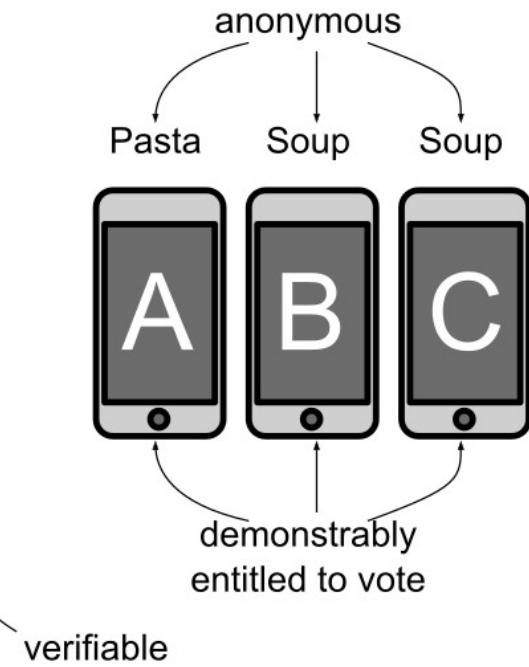
IP-free
routing



What do you want for dinner?

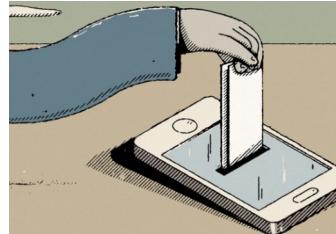


You voted:
1x Pasta
2x Soup



Tom Scott: Open Problem in Computer Science

Myself: I solved it!



Fundamental Challenges

(why mobile voting did not exit yet)

Ensure **authenticity** of each vote:
Each vote belongs to an eligible voter.



Ensure **anonymity** of each vote:
Each vote is untraceable back to its entitled voter.



Assert **fairness** of the voting:
Each voter submitted only one vote.



Enable **verifiability** of voting result:
Each voter sees proof that everyone's vote (his* own included) has been counted.



Prevent **future** brute-force attacks:
Crypto-security is likely to break in the future.
Thus, anonymity must not be based on encryption.



One Basic: Cryptography



One Basic: Cryptography



A screenshot of a GitHub repository page for "minato/typer". The page shows a list of commits, issues, pull requests, and other repository details. The commits section includes entries like "Create PUBLISHING.json", "change form, variable naming", and "updated machine (added gpt)". The repository has 167 commits and 2 stars. It also features sections for "About", "Topics", "Releases", "Sponsor this project", and "Packages".

One Basic: Cryptography



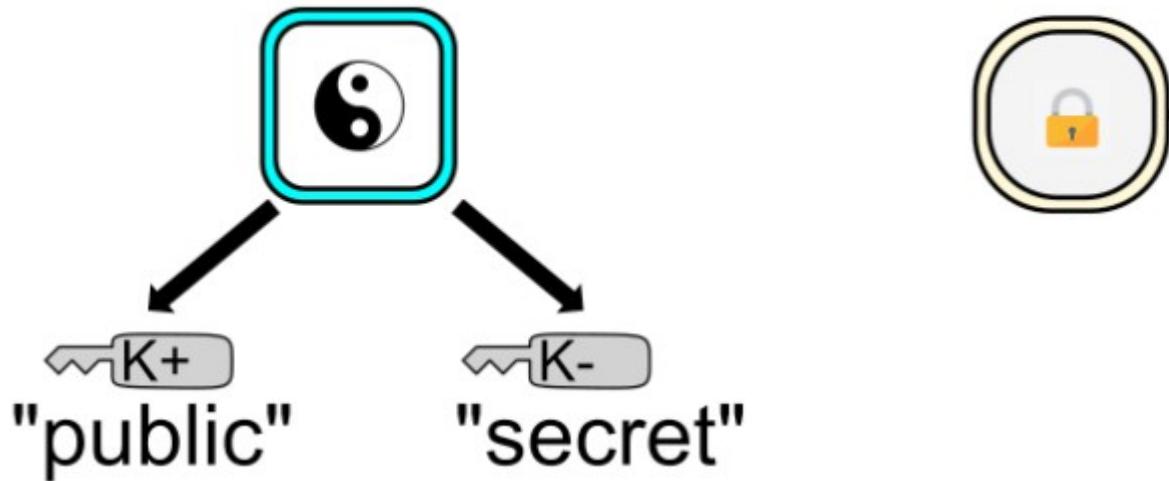
One Basic: Cryptography

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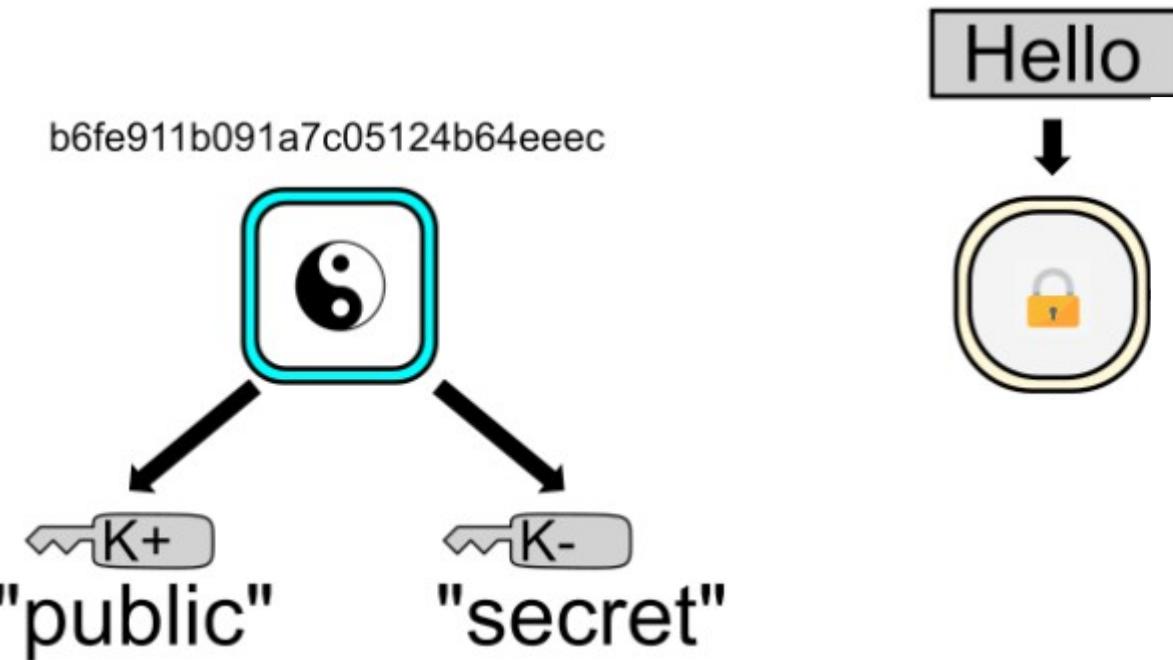


One Basic: Cryptography

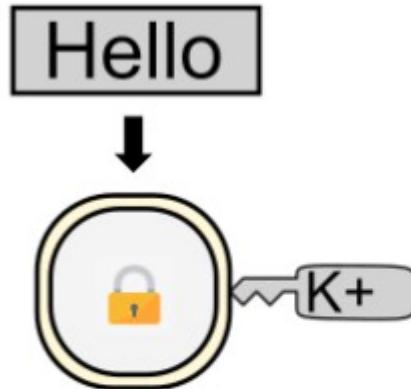
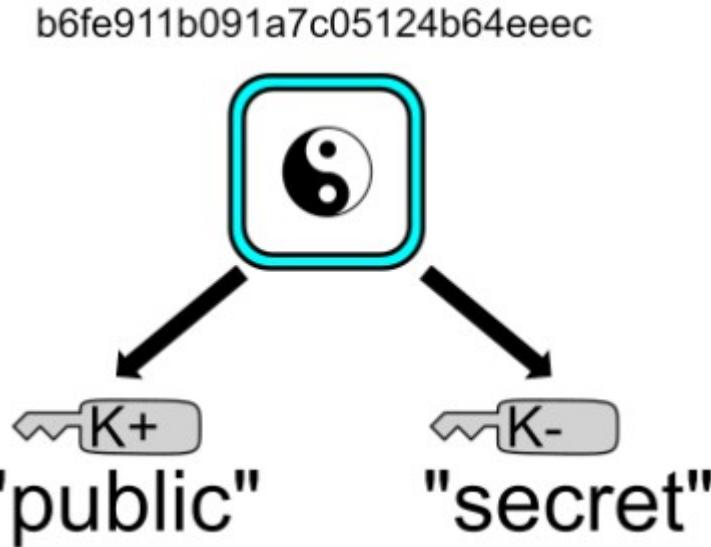
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One Basic: Cryptography

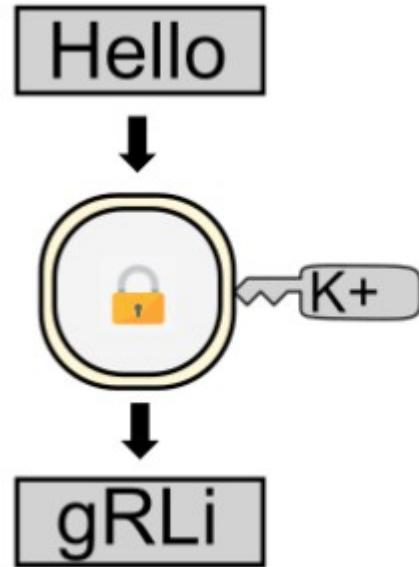
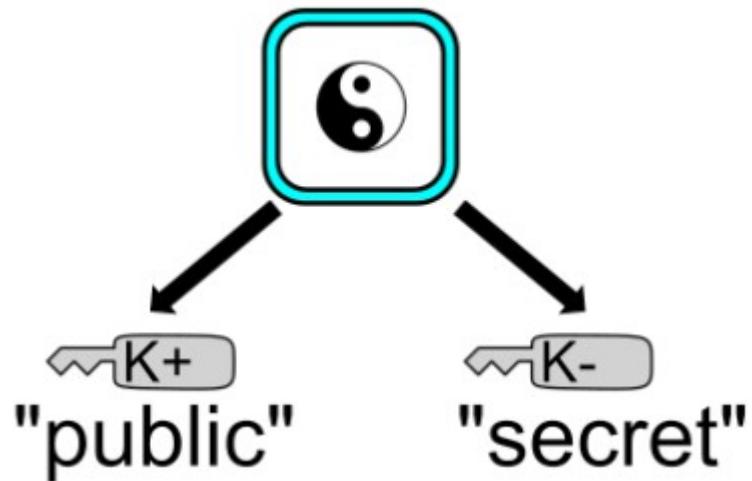


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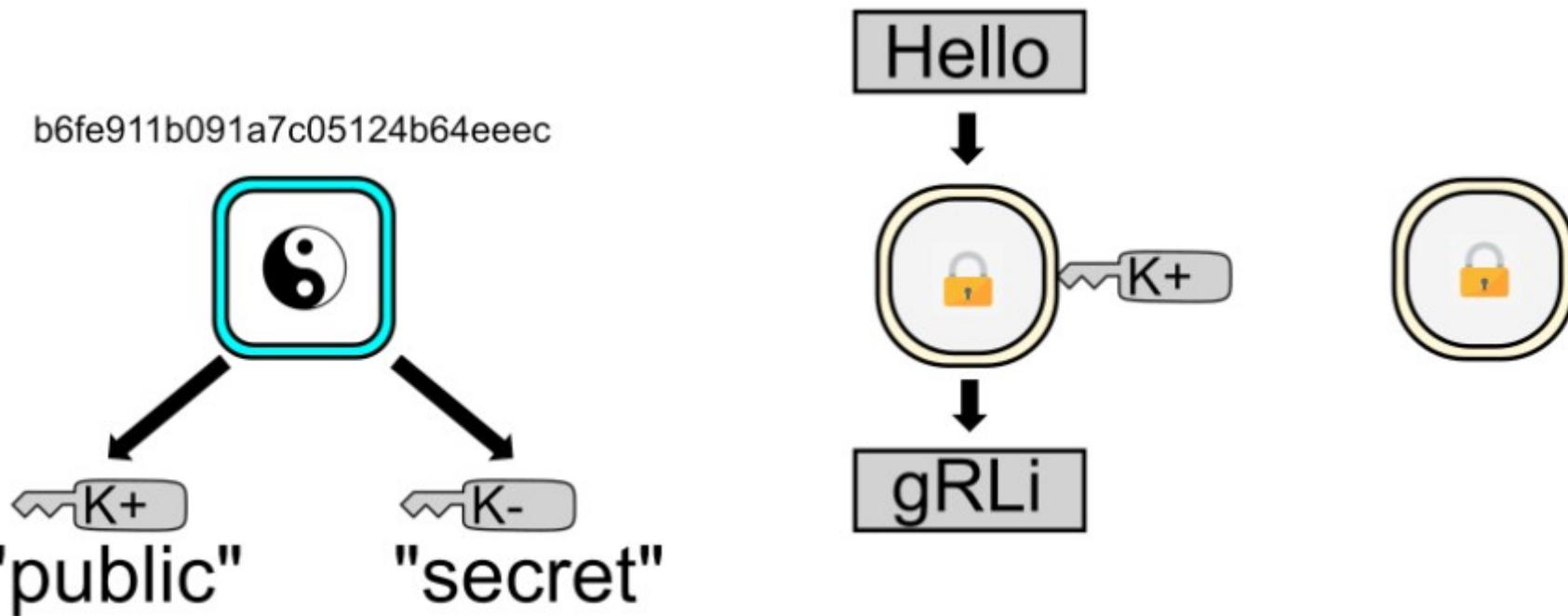


One Basic: Cryptography

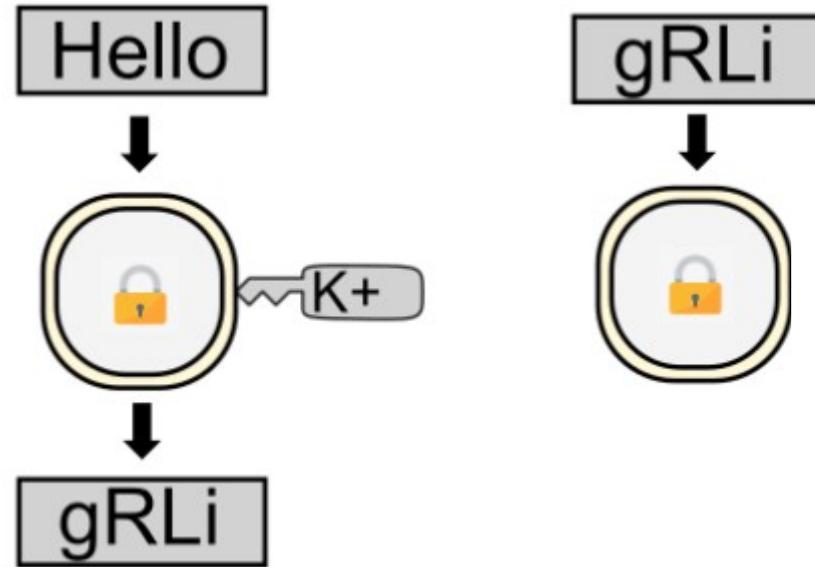
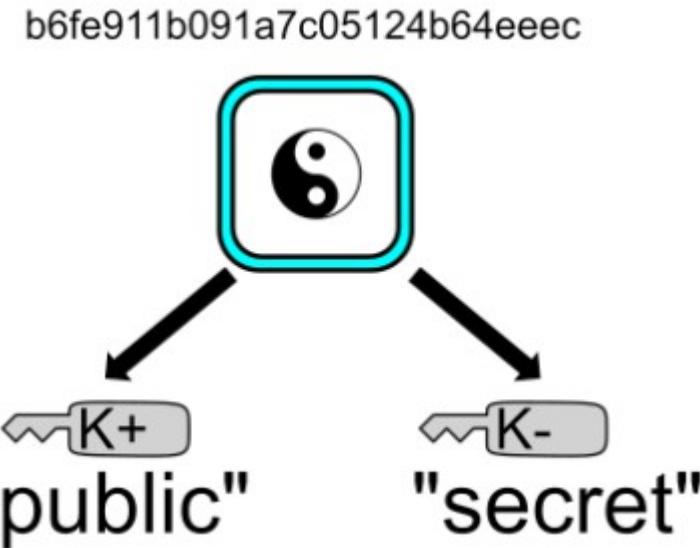
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One Basic: Cryptography

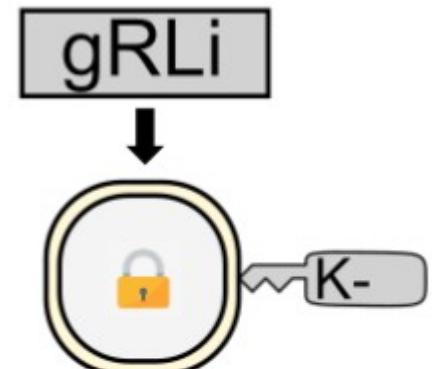
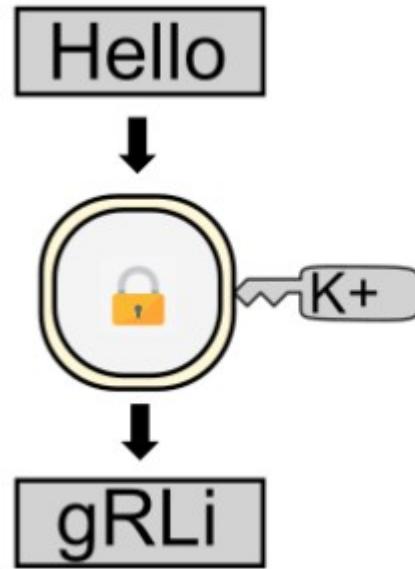
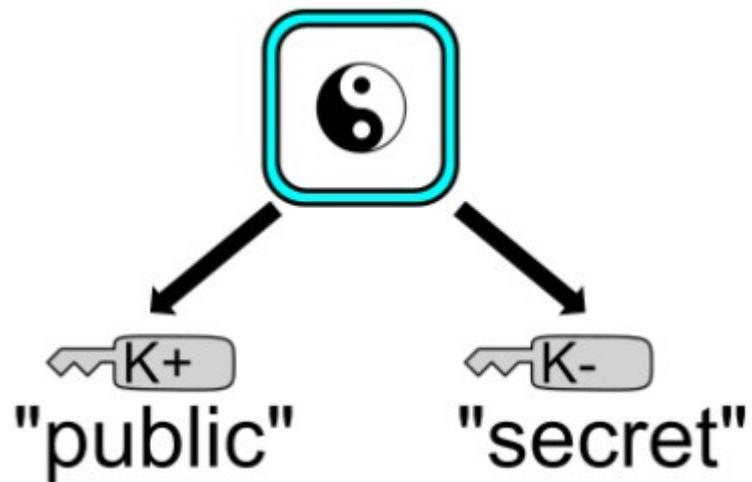


One Basic: Cryptography



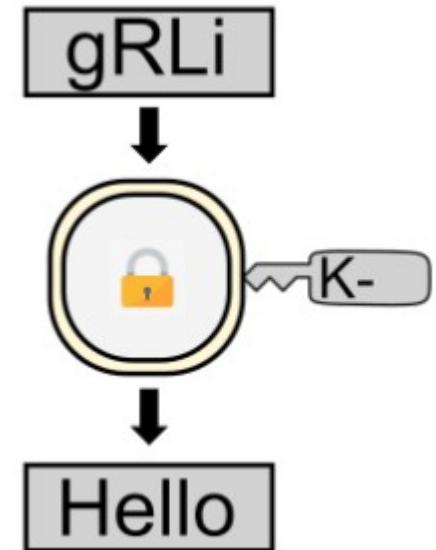
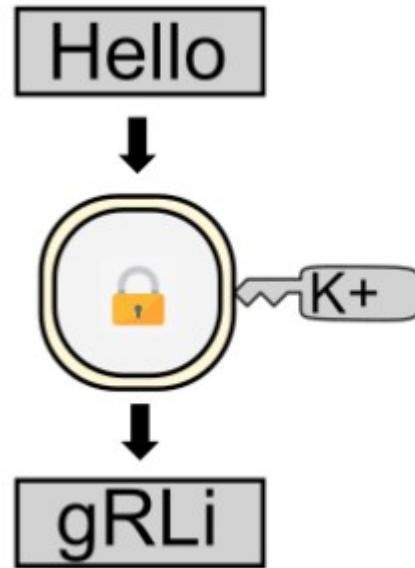
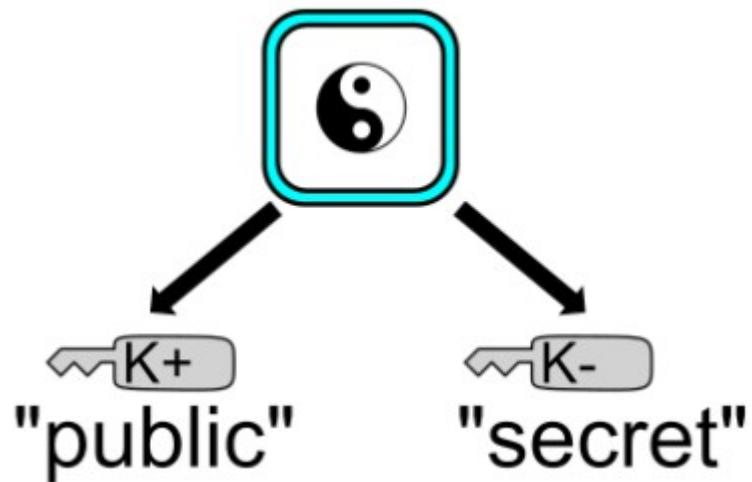
One Basic: Cryptography

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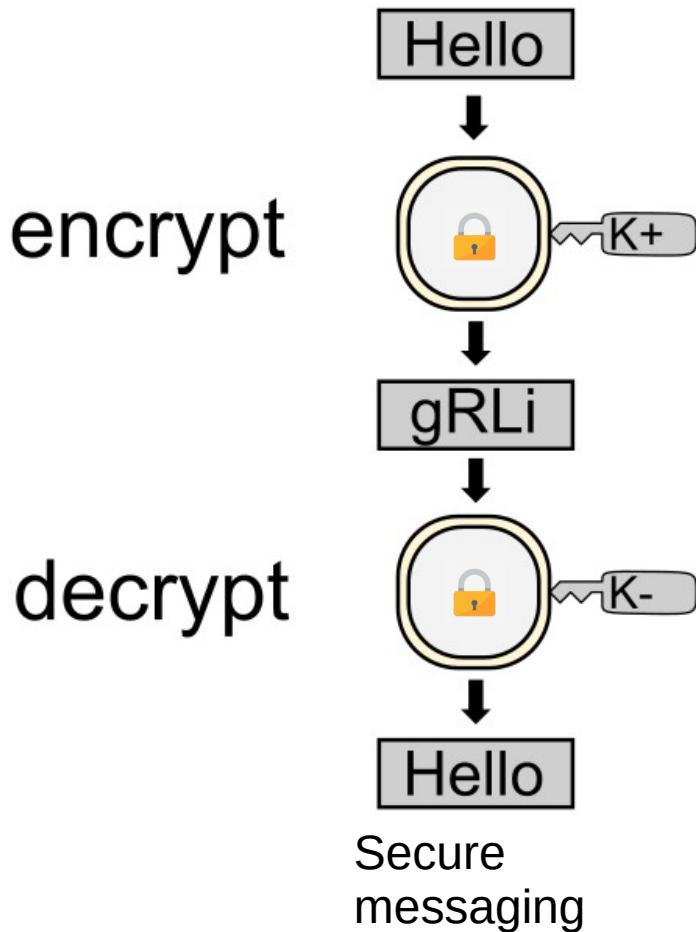


One Basic: Cryptography

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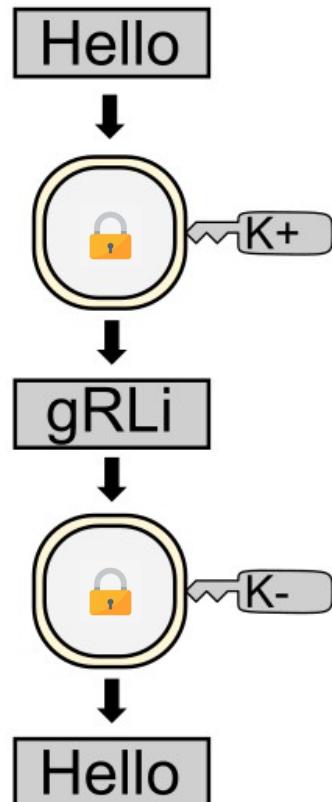


One Basic: Cryptography



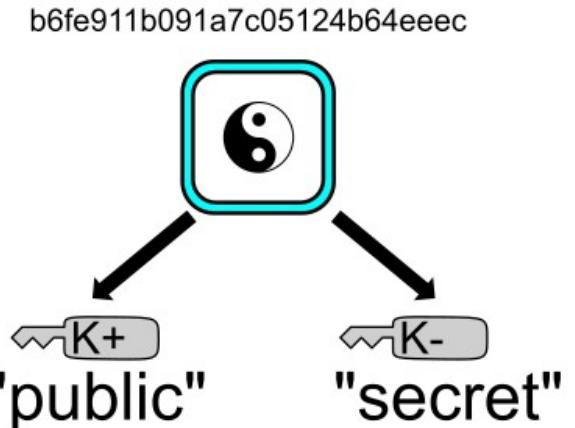
One Basic: Cryptography

encrypt

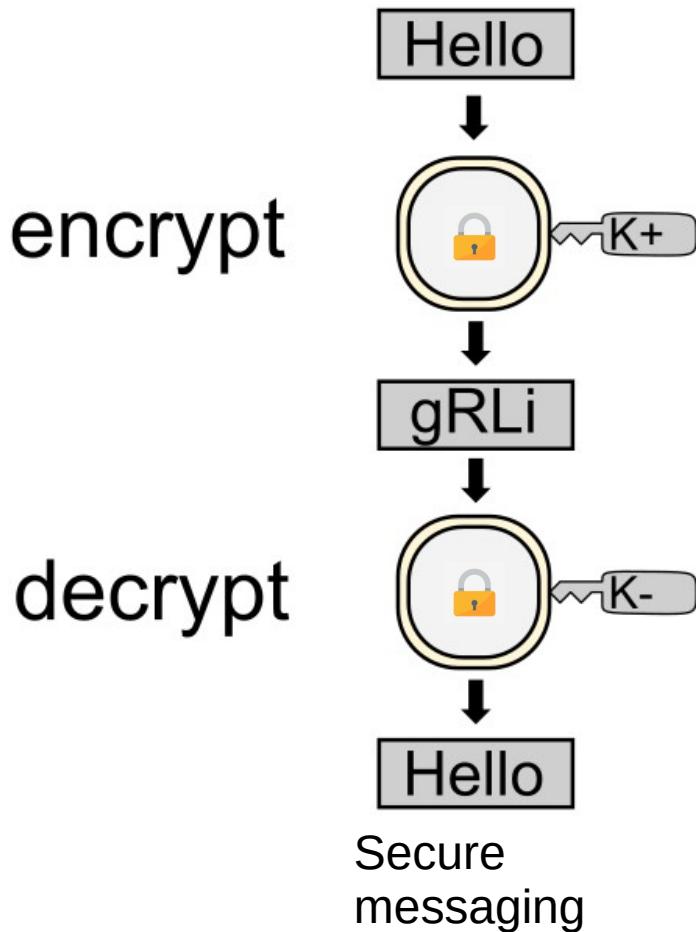


decrypt

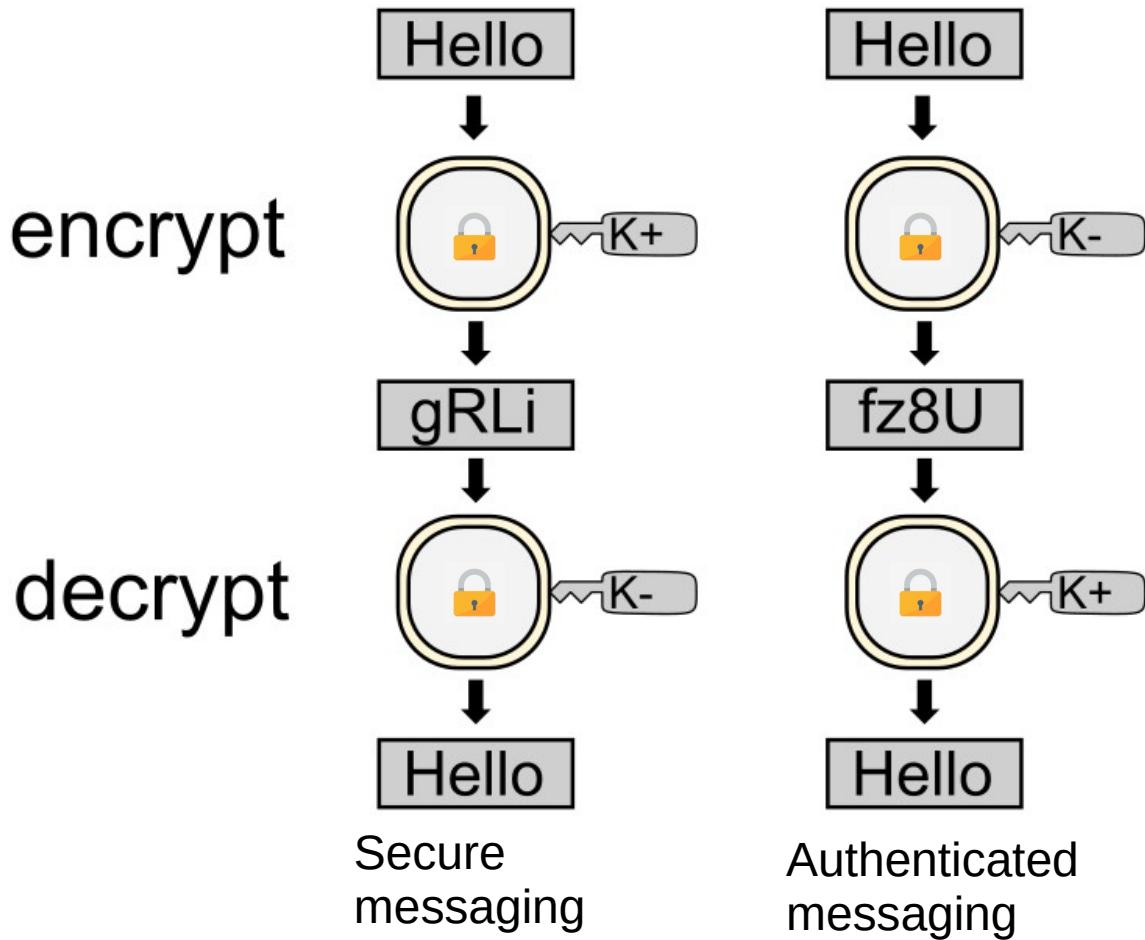
Secure
messaging



One Basic: Cryptography

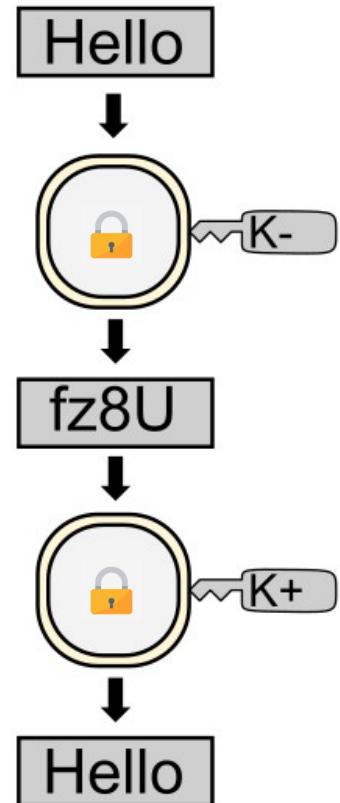


One Basic: Cryptography



One Basic: Cryptography

encrypt



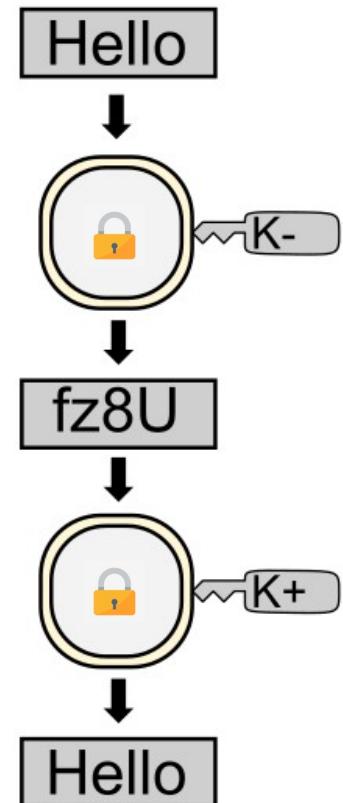
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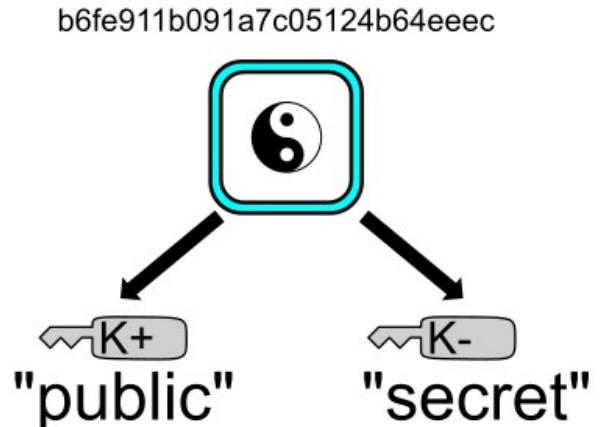
Authenticated
messaging

One Basic: Cryptography

encrypt



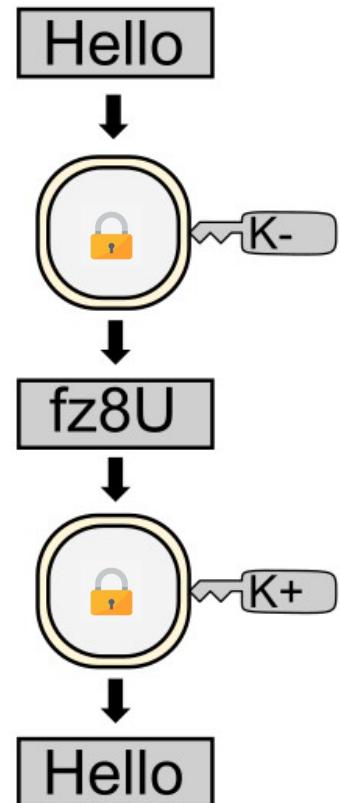
decrypt



Authenticated
messaging

One Basic: Cryptography

encrypt



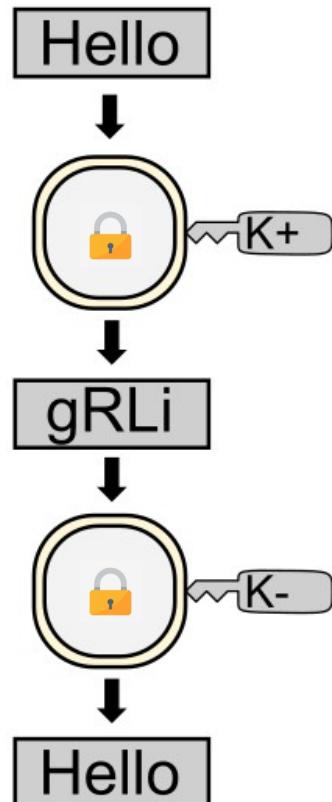
decrypt



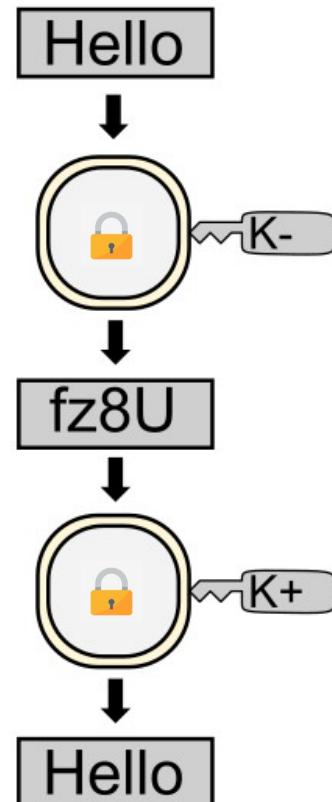
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messaging

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encrypt

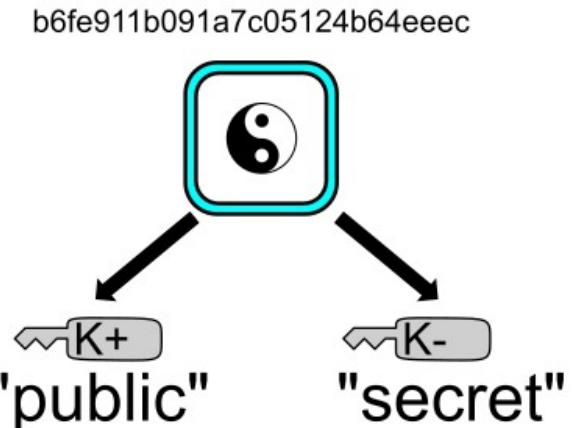


decrypt



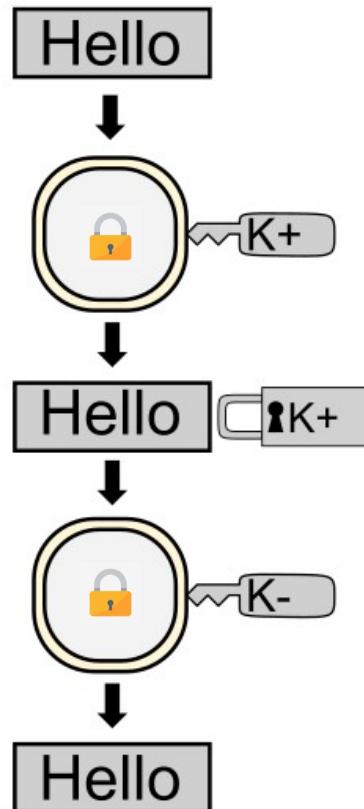
Secure
messaging

Authenticated
messaging

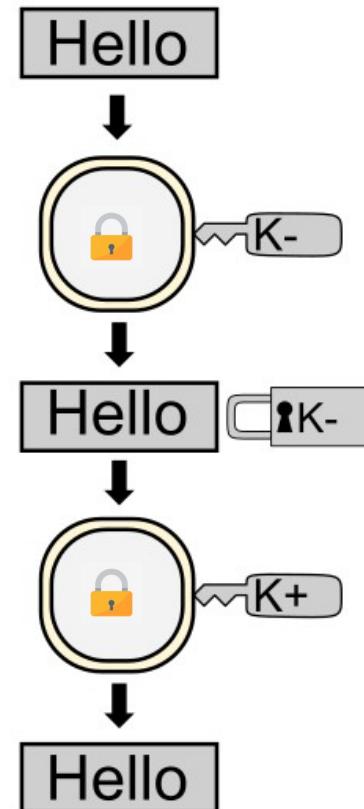


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encrypt



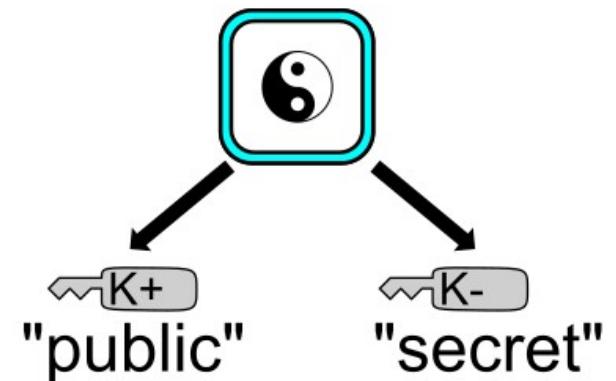
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Secure
messaging

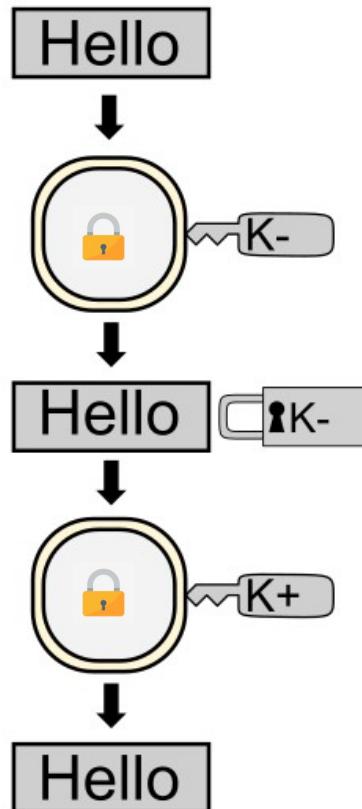
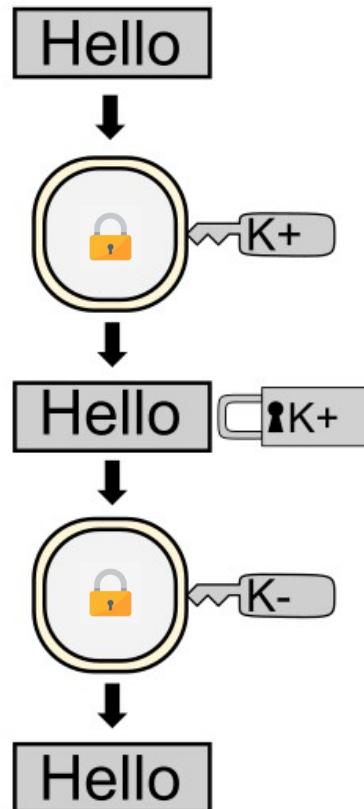
Authenticated
messaging

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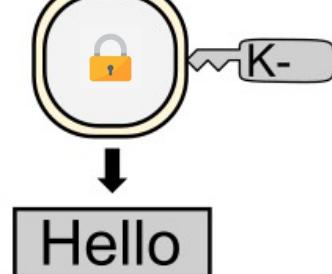


One Basic: Cryptography

encrypt



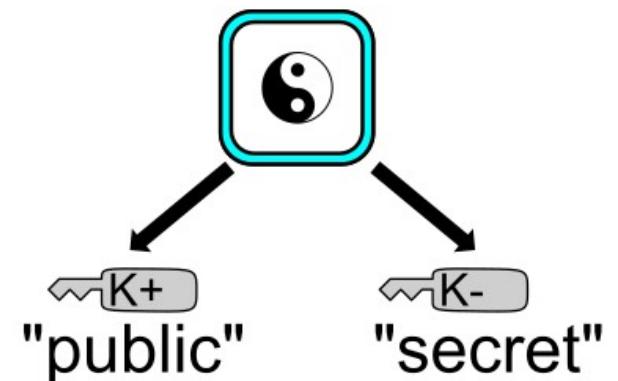
decrypt



Secure
messaging

Authenticated
messaging

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Wikipedia → asymmetric cryptography
Youtube → numberphile asym. crypt.

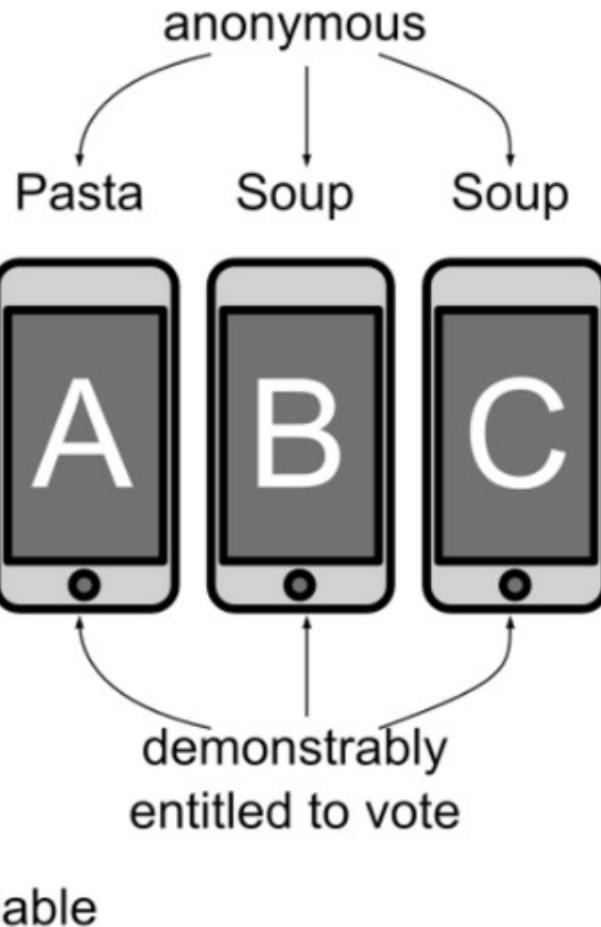
How the Software works!

Use Case

What do
you want
for dinner?



You voted:
1x Pasta
2x Soup



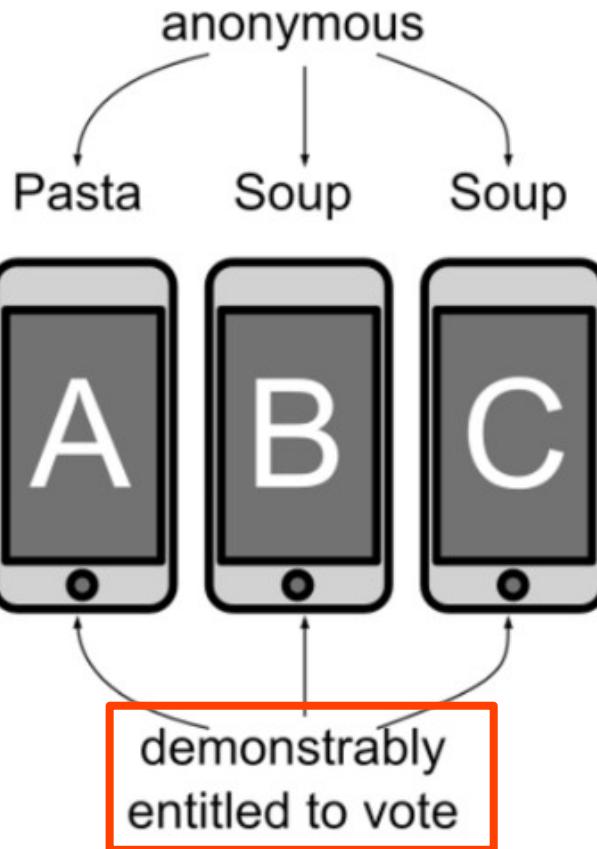
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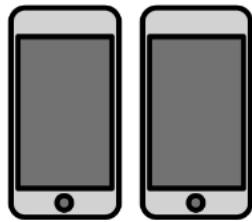


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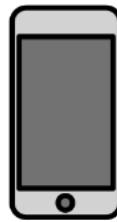
verifiable



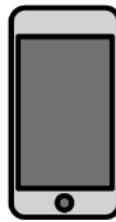
Who has how many votes?



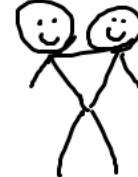
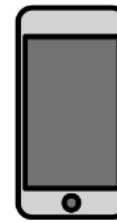
Techie



Average
User



Single
Mum +
Child



Siamese
Twins

Use Case

Vote Pool Manager

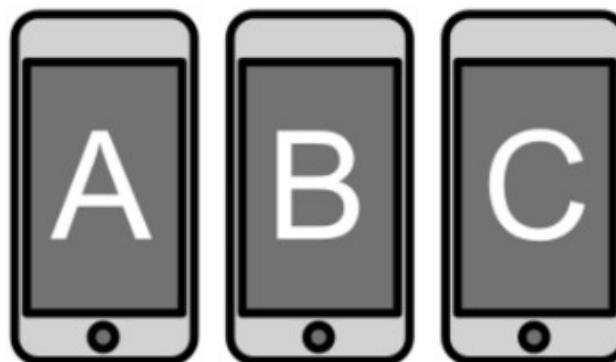
What do
you want
for dinner?



You voted:
1x Pasta
2x Soup

verifiable

anonymous
Pasta Soup Soup



demonstrably
entitled to vote



Who is entitled
to vote

In a Modern Country

The Vote Pool Manager is the Passport Maker.

Vote Pool Manager



=



Who is entitled
to vote



Modern Voting: Paper Ballots

1) Authentication



basically, someone decides whether you can enter the voting booth nor not

2) Issuing



They strike your name on a list, to ensure each voter only gets one ballot

3) Voting



multiple choice

4) Anonymization



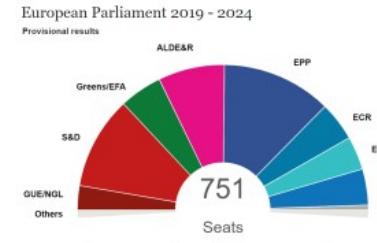
all ballots are mixed together

5) Counting



ballots are counted out transparently

6) Publication



the result of the vote is published

In a Modern Country

The Vote Pool Manager is the Passport Maker.

Vote Pool Manager



=



Who is entitled
to vote



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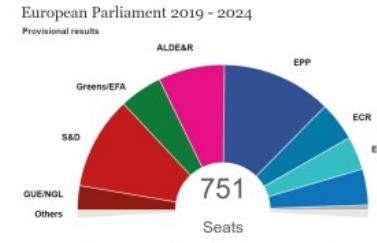
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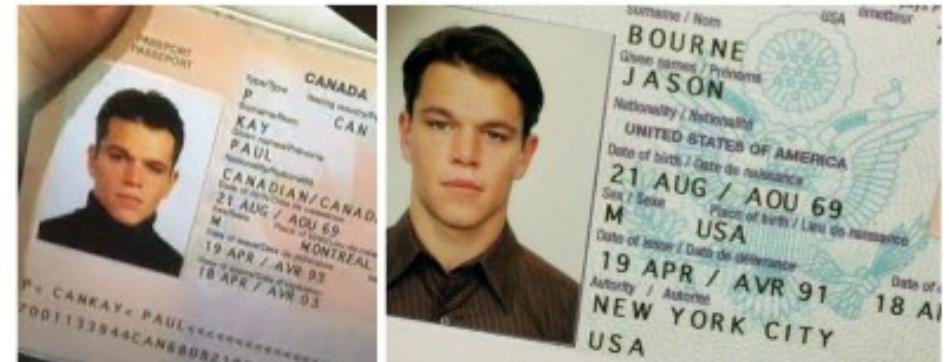


the result of the vote is published

Further issues



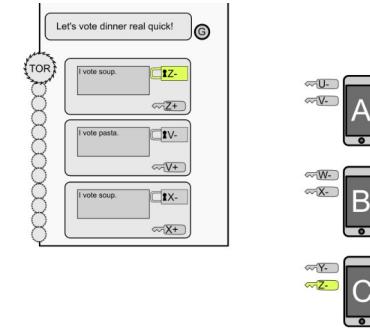
that they let you in



that each eligible voter is
exactly one real person

TO DO List

- Solved: Electronic Voting



- Next: Replace Passport Issuer
aka Vote Pool Manager



Get rid of the Passport Issuer

Part 1: What is a passport

3) Vote pool Approval

- someone trustworthy



1) Singleton

- Photo
- Fingerprint
- DNA
- Iris Scan

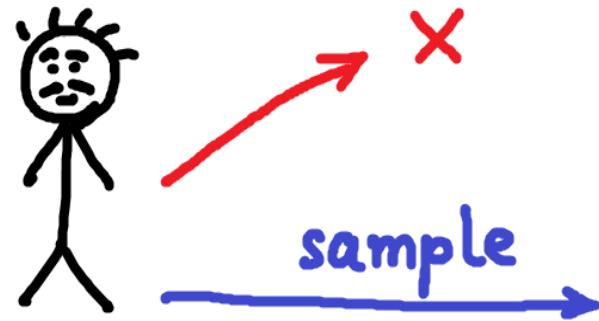


2) Signature

- Handwriting
- Voice
- Public key

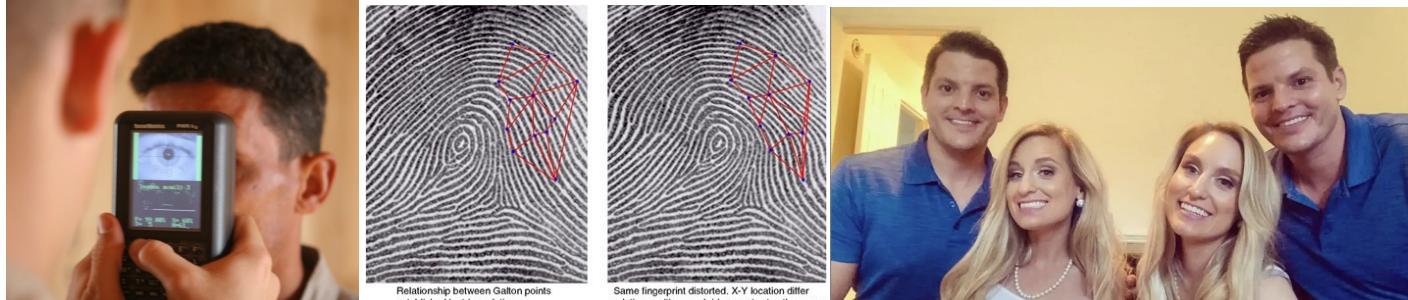
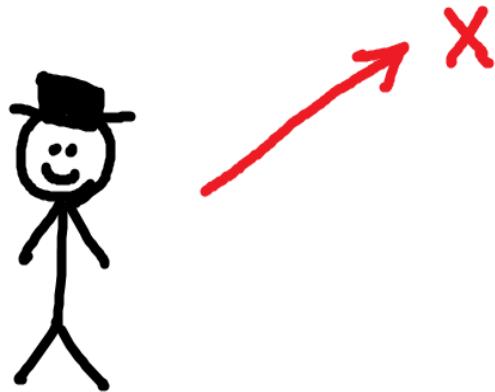
Singleton

unique & unalterable



a7e6efad7b26339849

867603b33c891592f6



Get rid of the Passport Issuer

Part 1: What is a passport

3) Vote pool Approval

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1) Singleton

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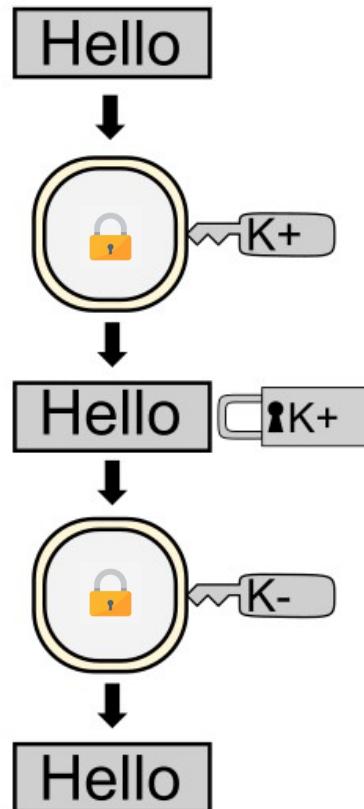


2) Signature

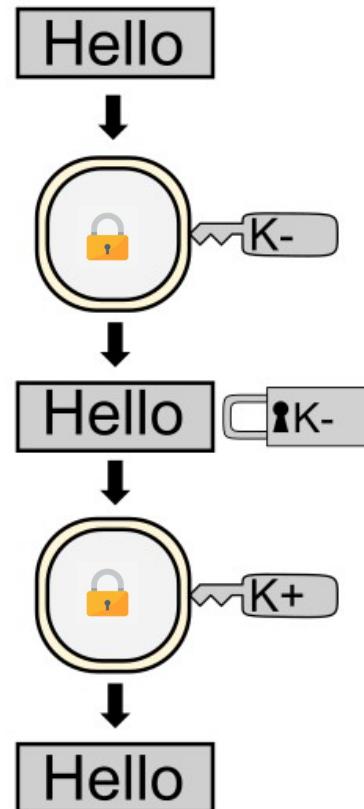
- Handwriting
- Voice
- Public key

One Basic: Cryptography

encrypt



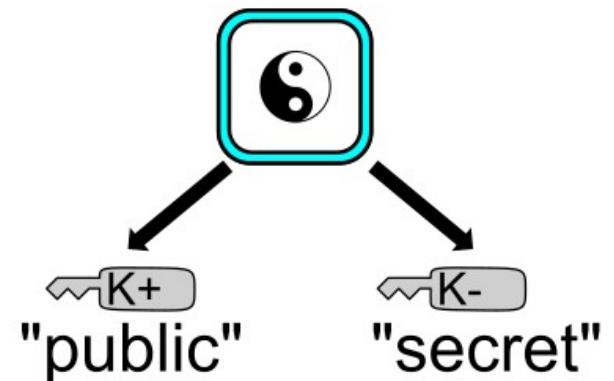
decrypt



Secure
messaging

Authenticated
messaging

b6fe911b091a7c05124b64eeec



Get rid of the Passport Issuer

Part 1: What is a passport

3) Vote pool Approval

- someone trustworthy



1) Singleton

- Photo
- Fingerprint
- DNA
- Iris Scan



2) Signature

- Handwriting
- Voice
- Public key

Get rid of the Passport Issuer

Part 1: What is a passport

1) Singleton

- Photo
- Fingerprint
- DNA
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3) Vote pool Approval

- someone trustworthy



2) Signature

- Handwriting
- Voice
- Public key

Get rid of the Passport Issuer

Part 1: What is a passport

1) Singleton

- Photo
- Fingerprint
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3) Vote pool Approval

- someone trustworthy

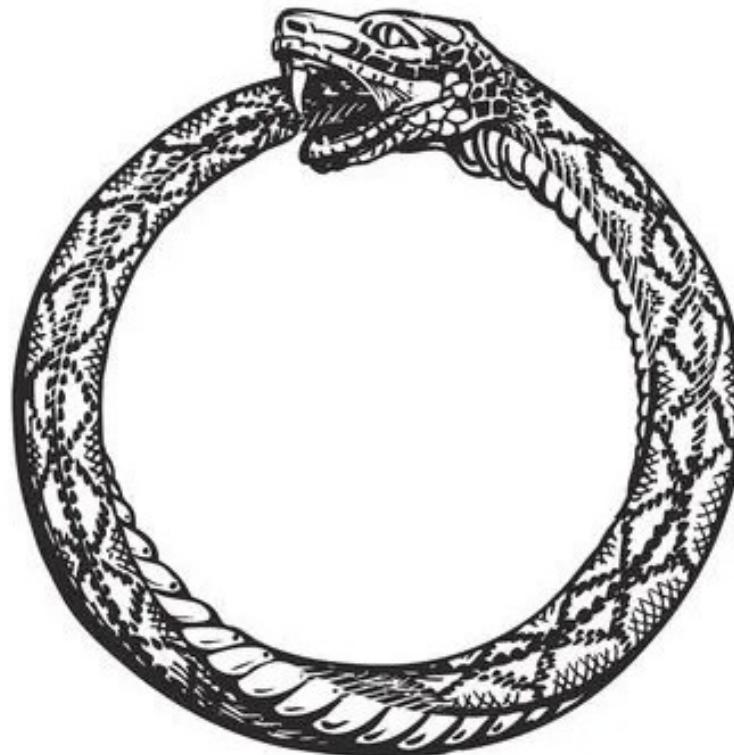


- everyone

2) Signature

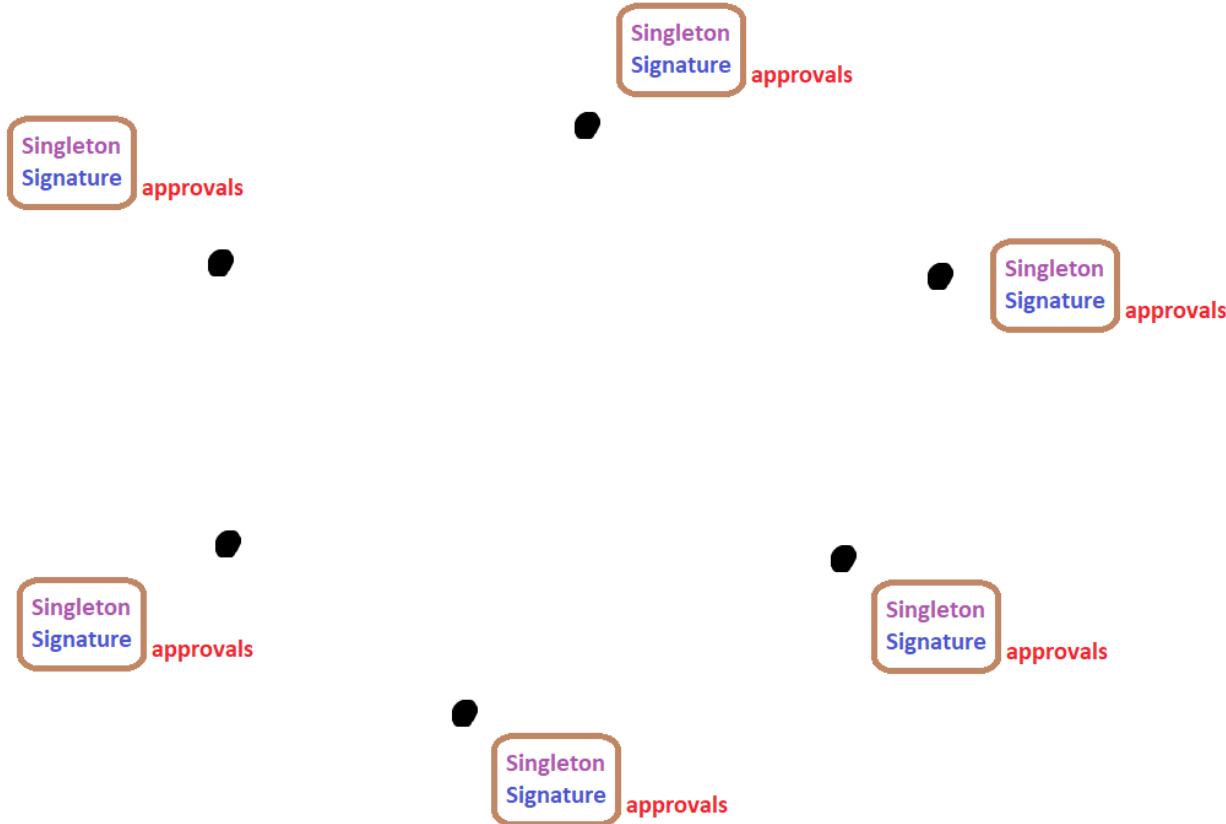
- Handwriting
- Voice
- Public key

“Approve yourself”



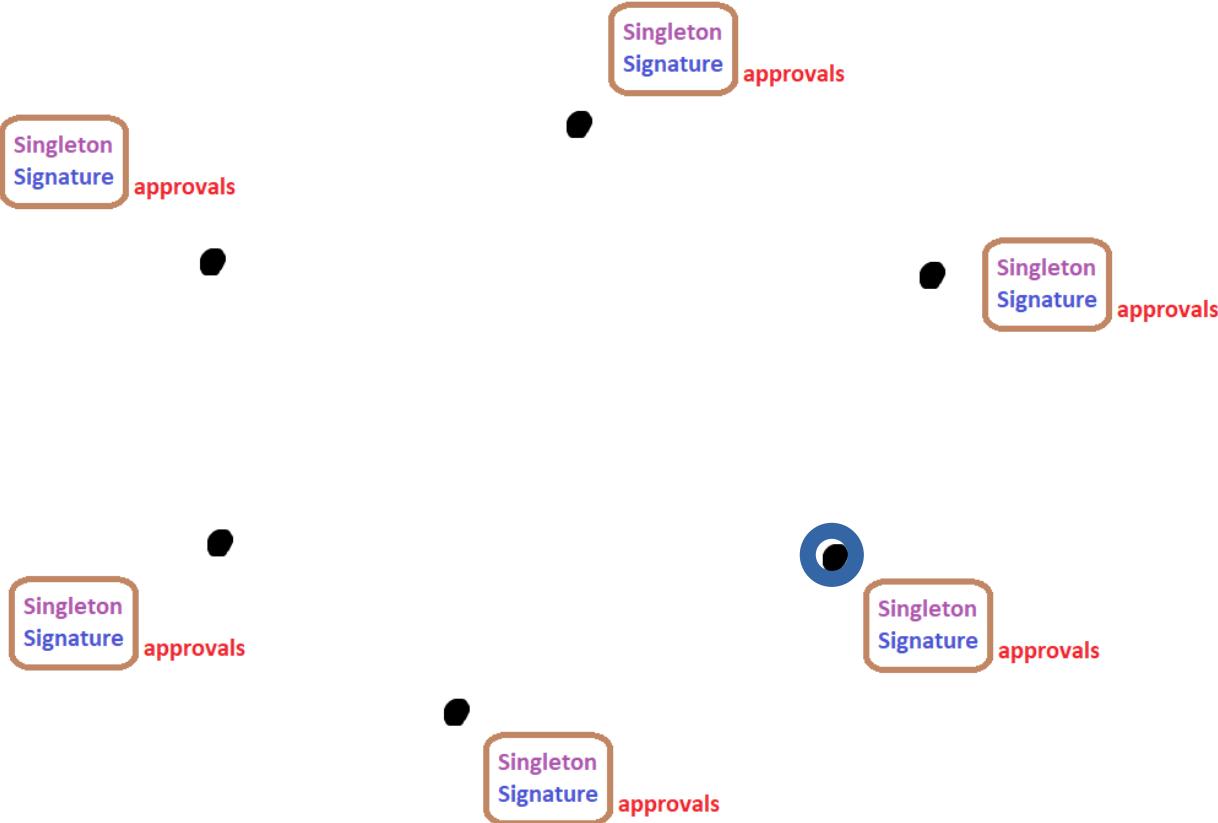
Get rid of the Passport Issuer

Part 2: Decentralize the Vote Pool Management



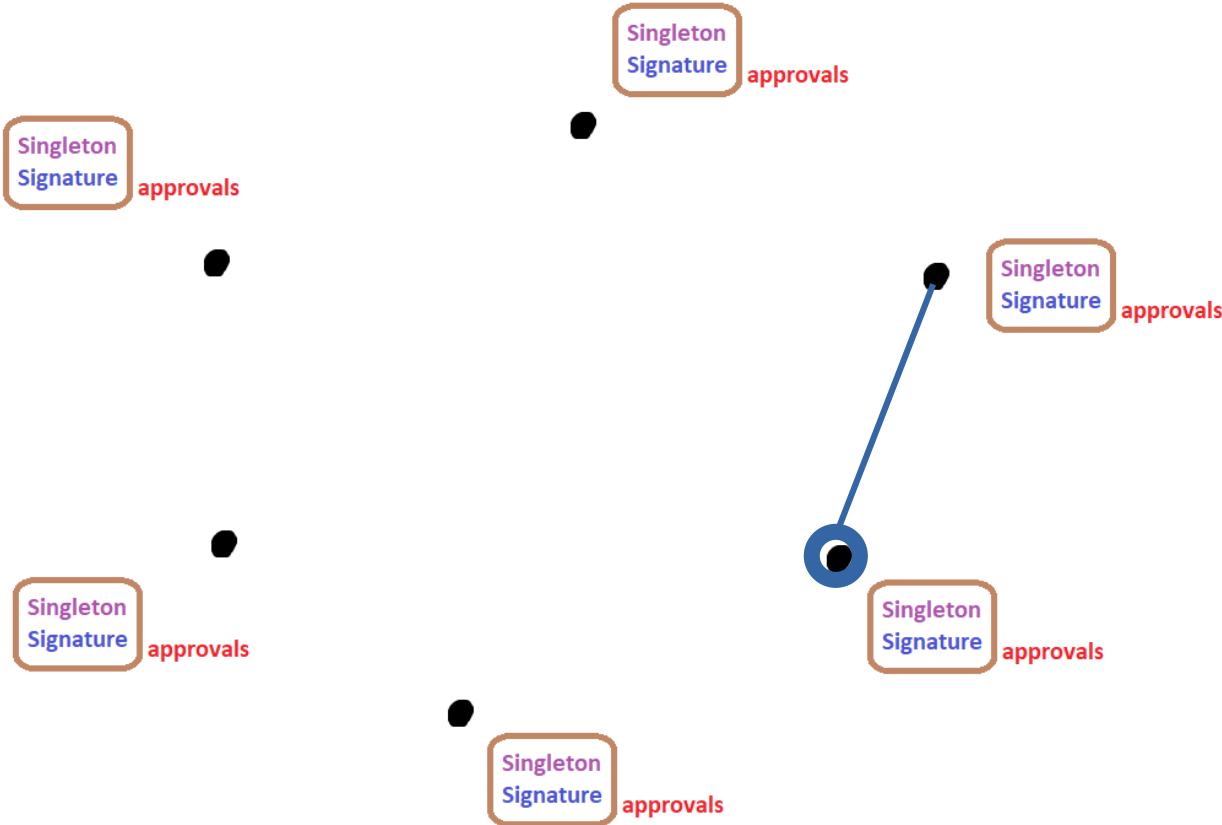
Get rid of the Passport Issuer

Part 2: Decentralize the Vote Pool Management



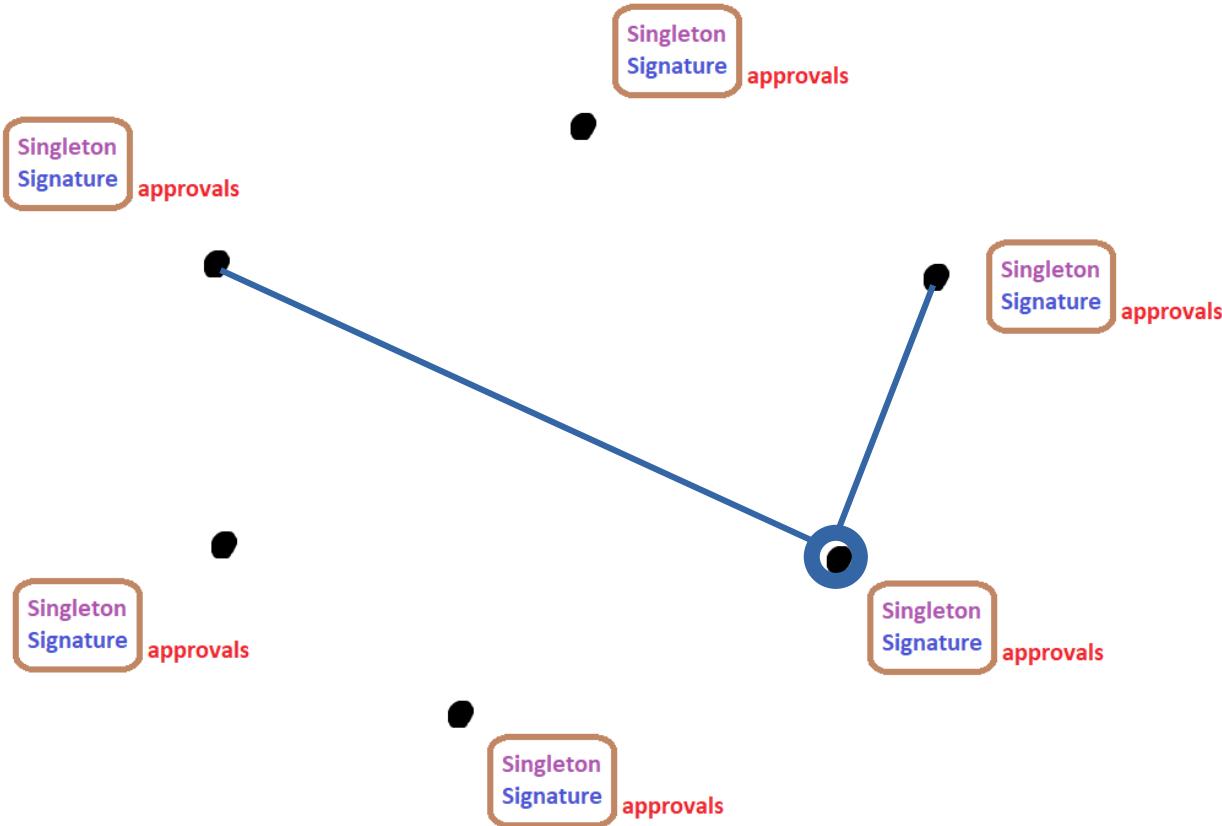
Get rid of the Passport Issuer

Part 2: Decentralize the Vote Pool Management



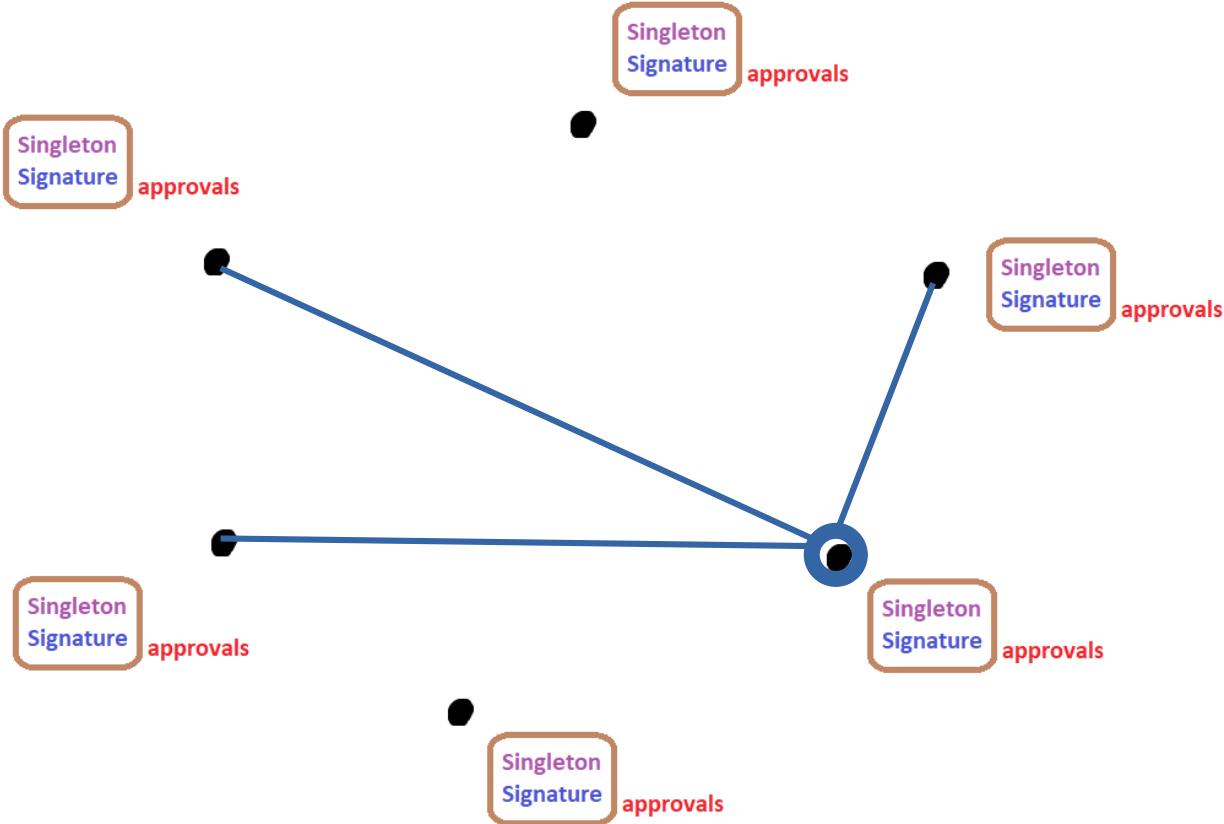
Get rid of the Passport Issuer

Part 2: Decentralize the Vote Pool Management



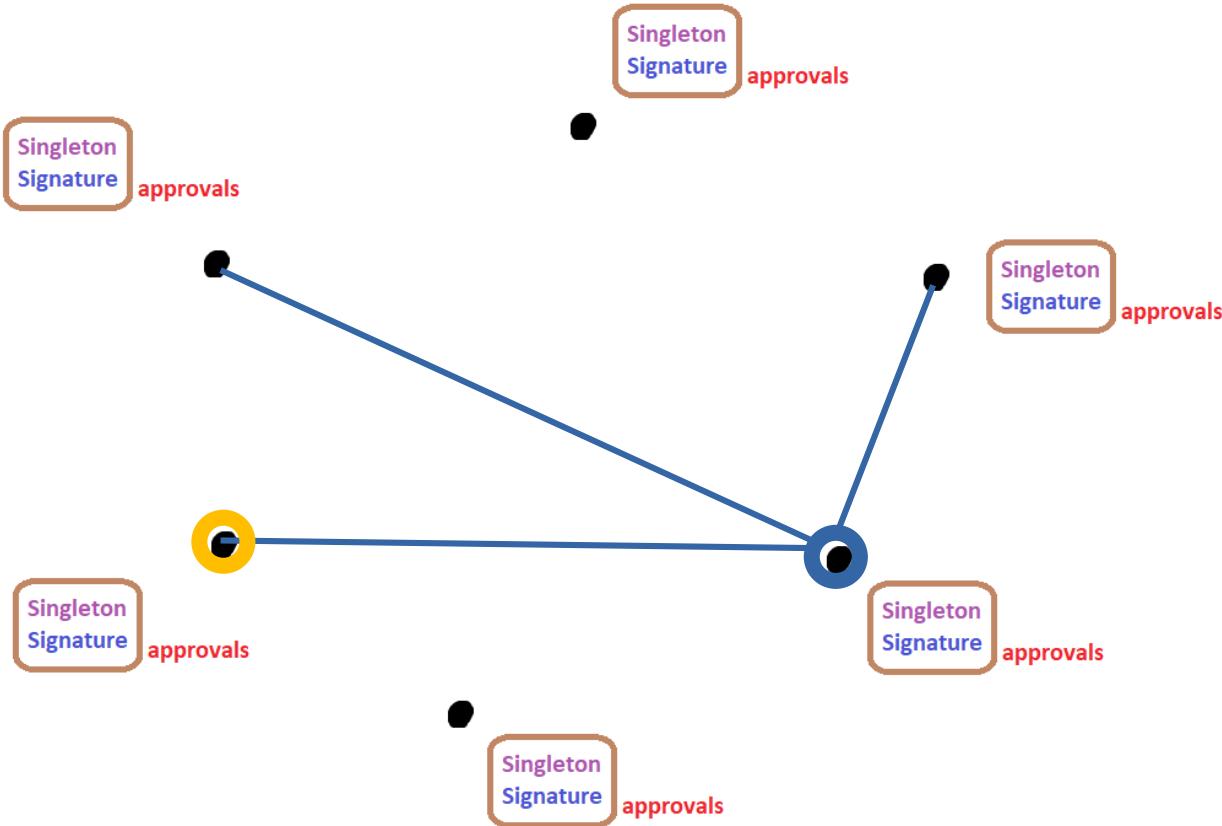
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Part 2: Decentralize the Vote Pool Management



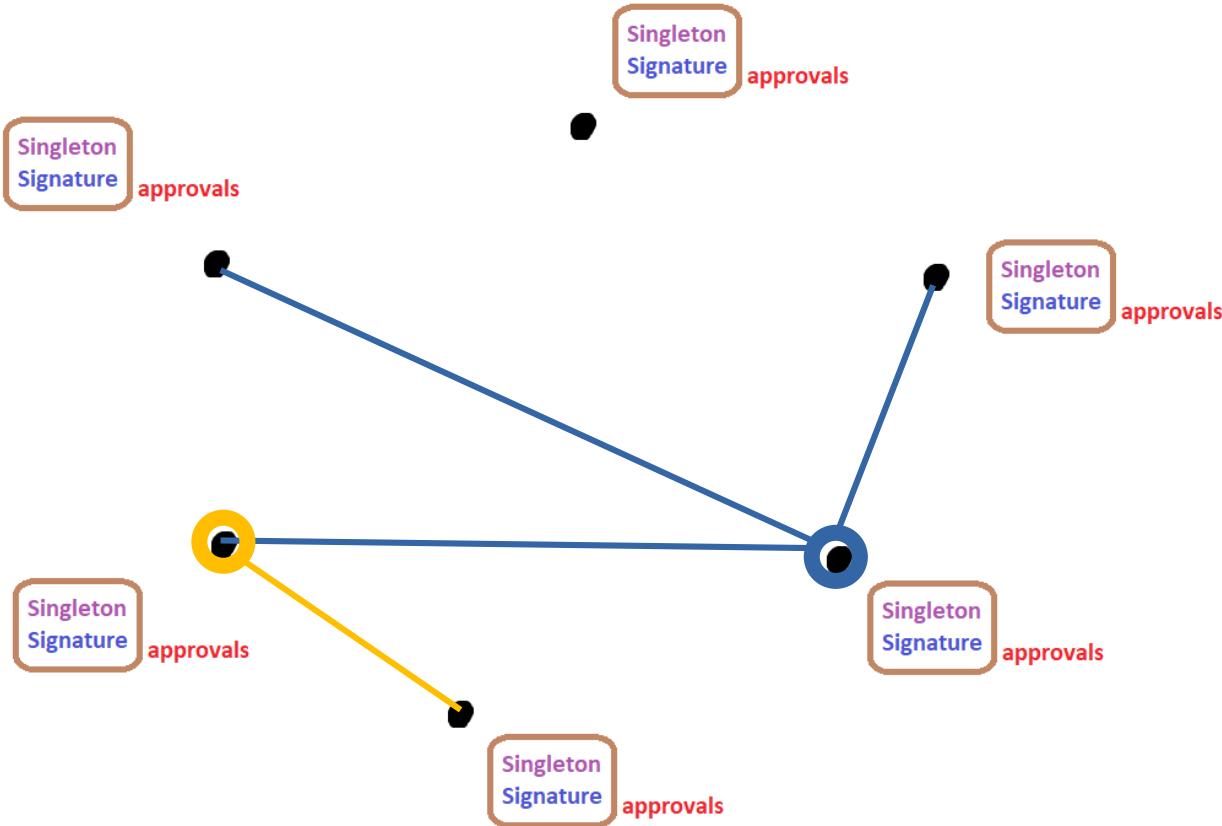
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Part 2: Decentralize the Vote Pool Management



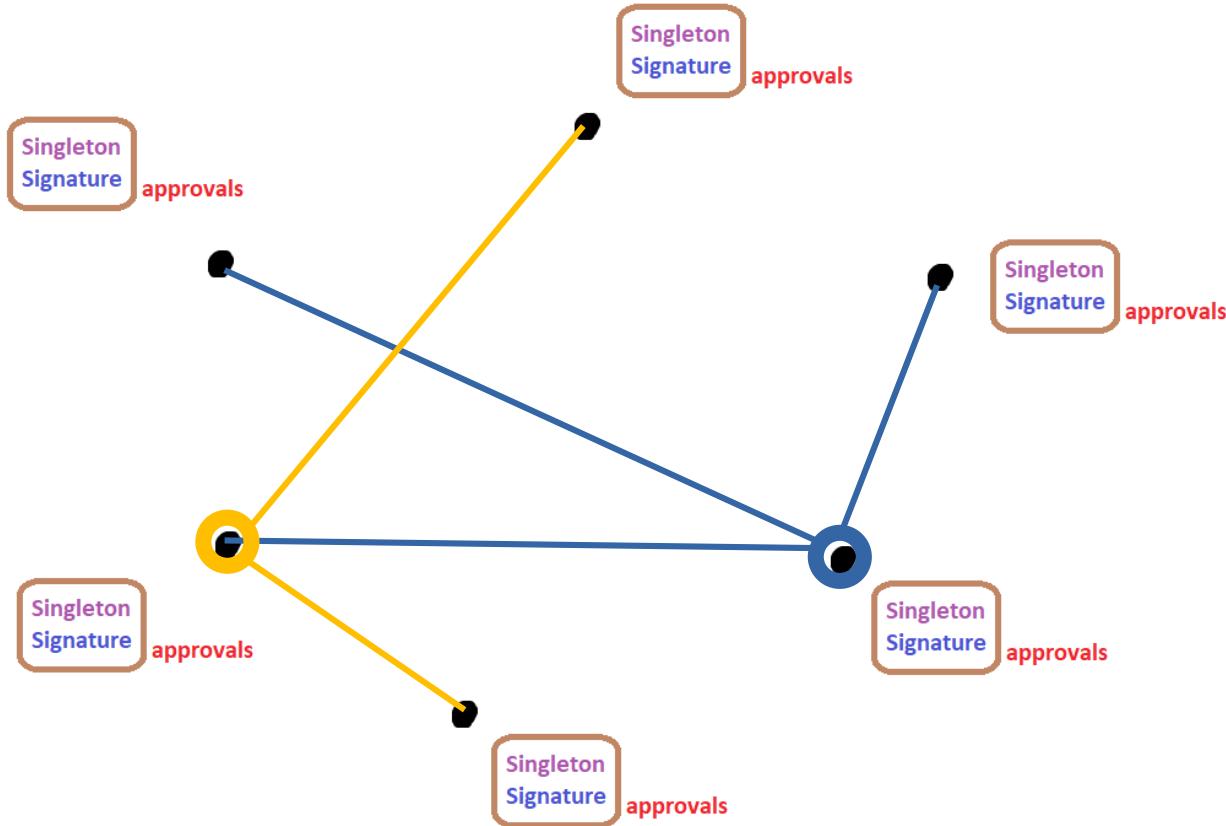
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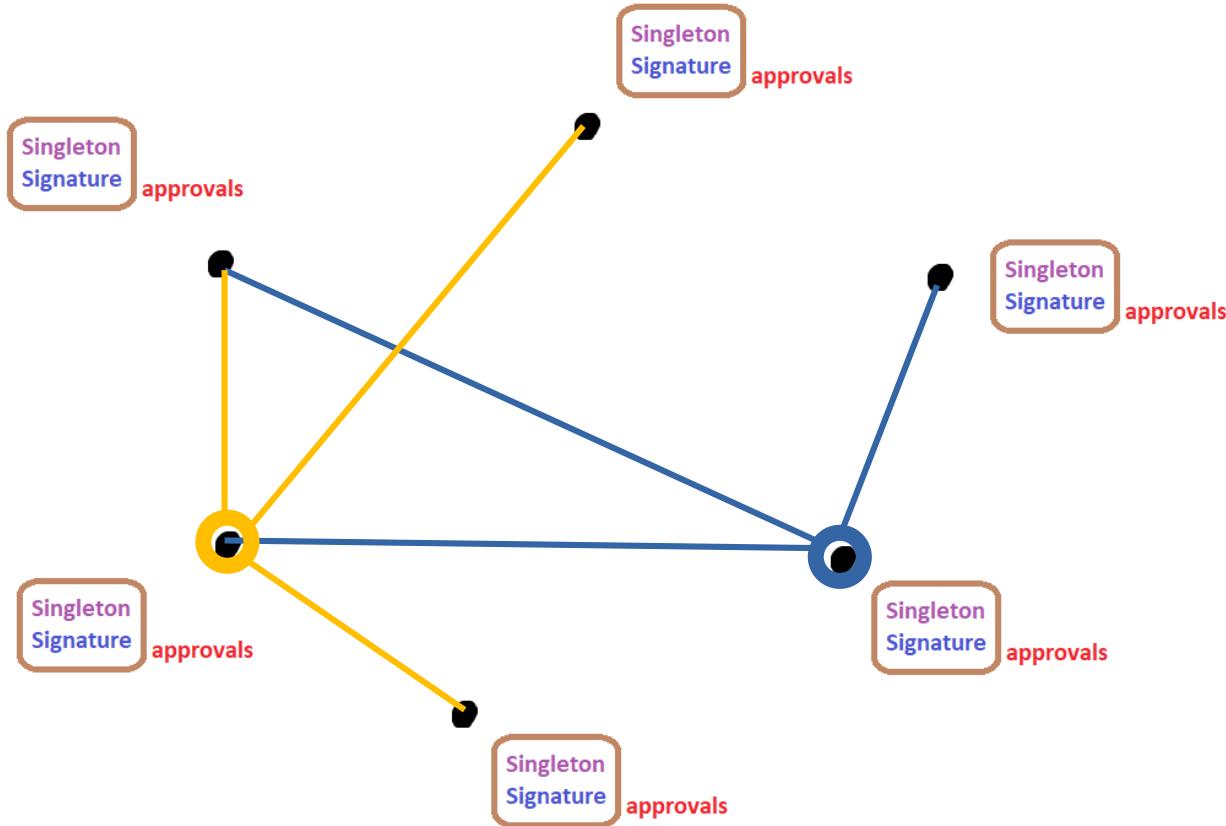
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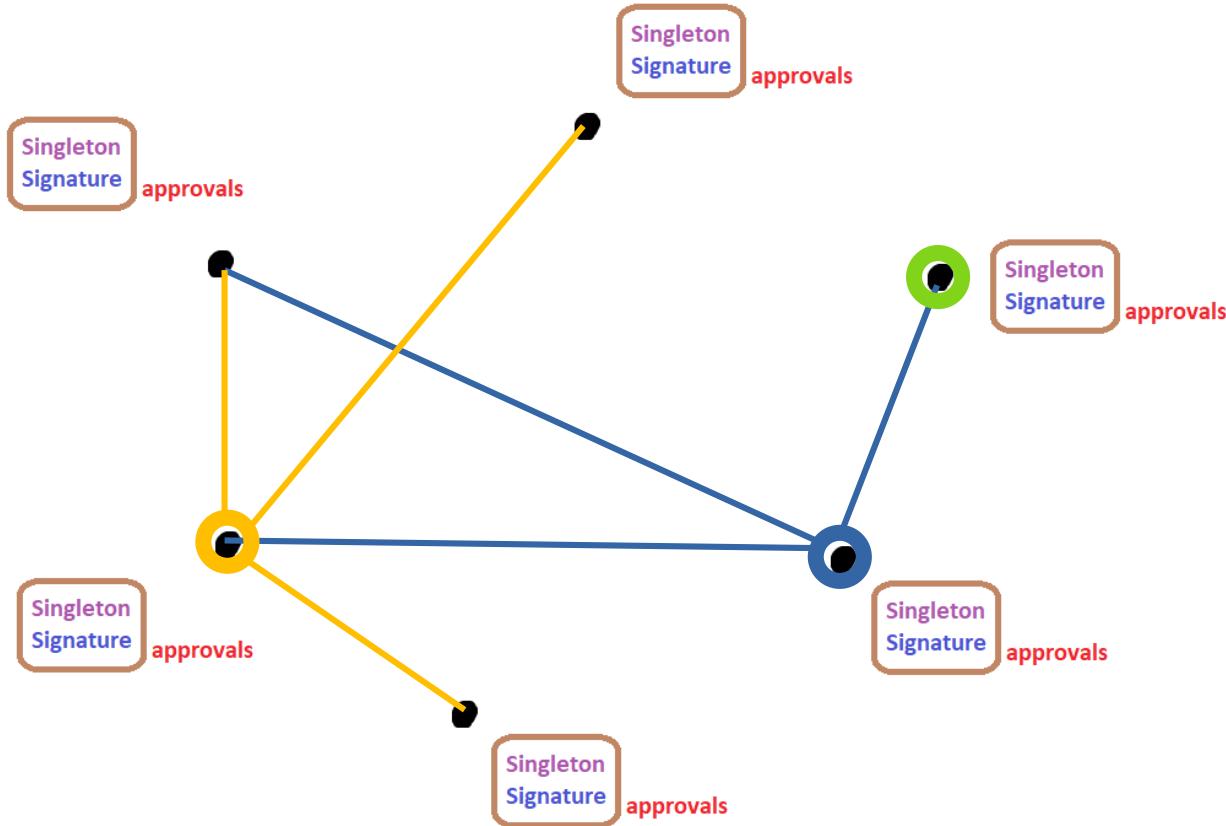
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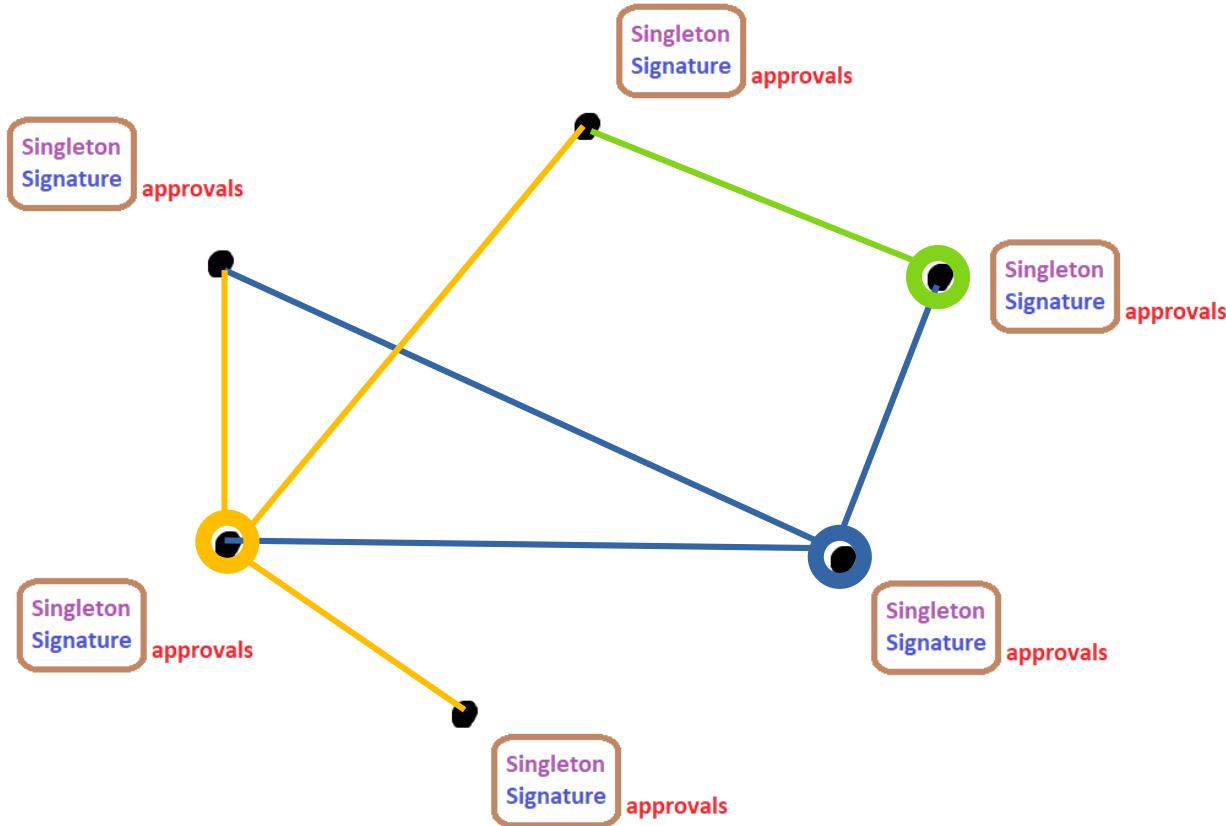
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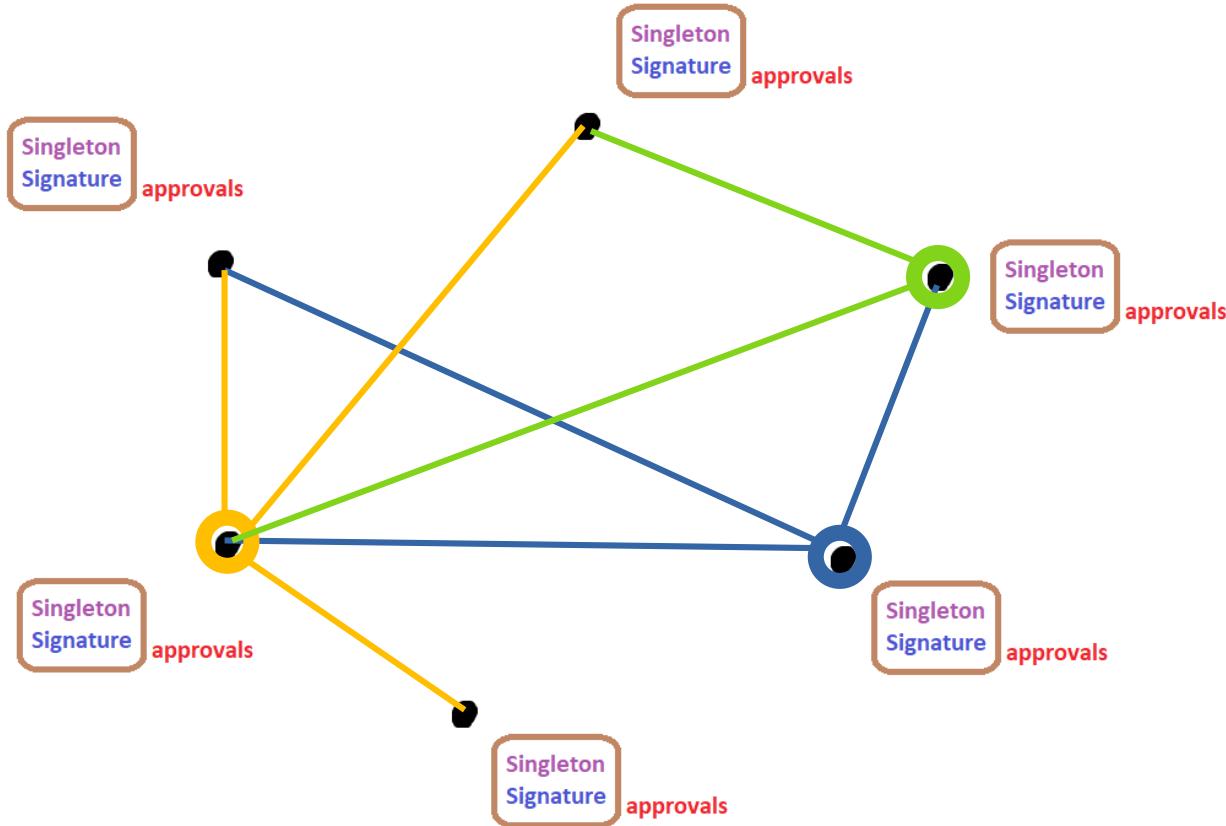
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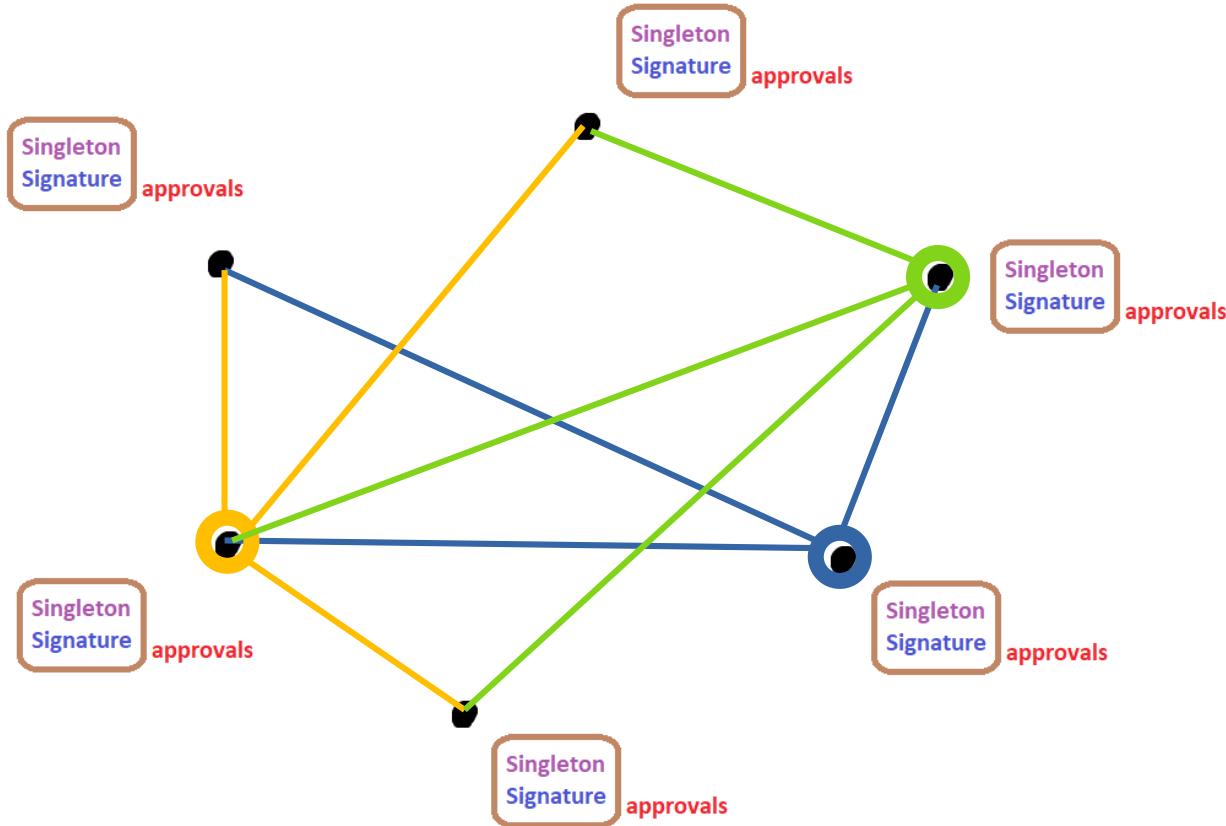
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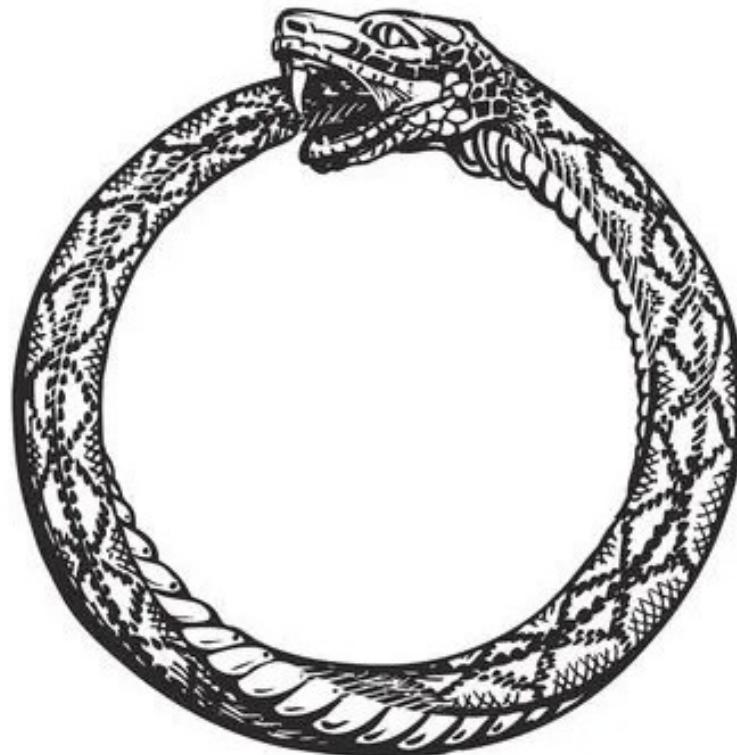


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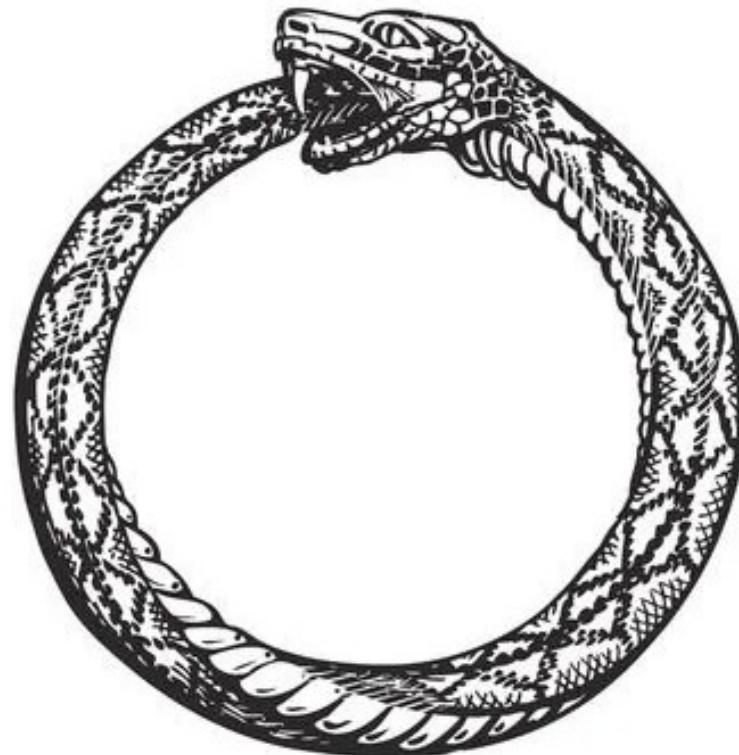
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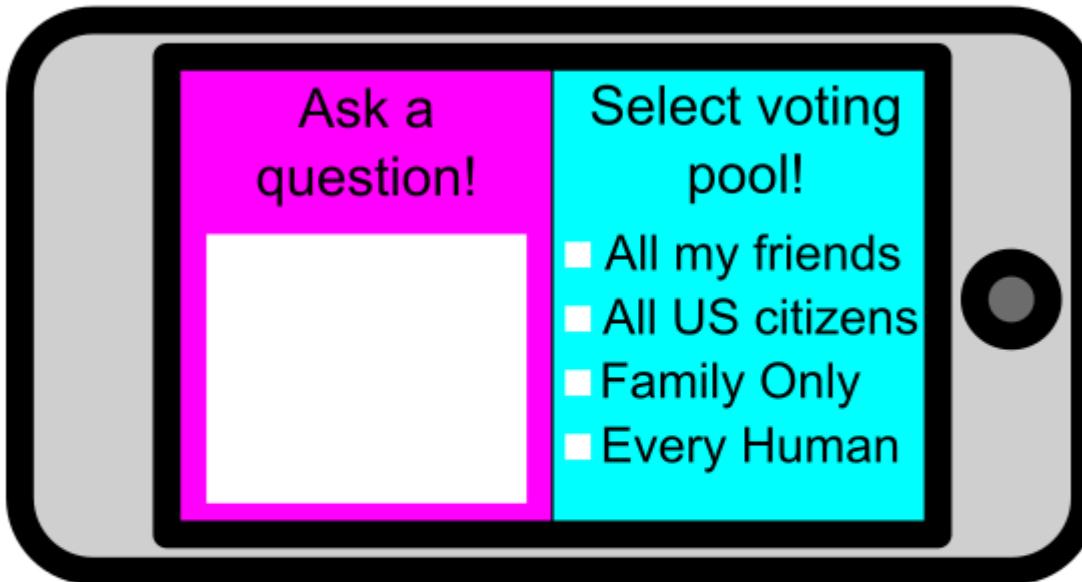
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