State of the ENS

Devcon 6 Bogota

Nick Johnson (@nicksdjohnson)

ENS Swag!

Sign up at swag.ens.domains

Come to our booth on
Level 3 to collect yours

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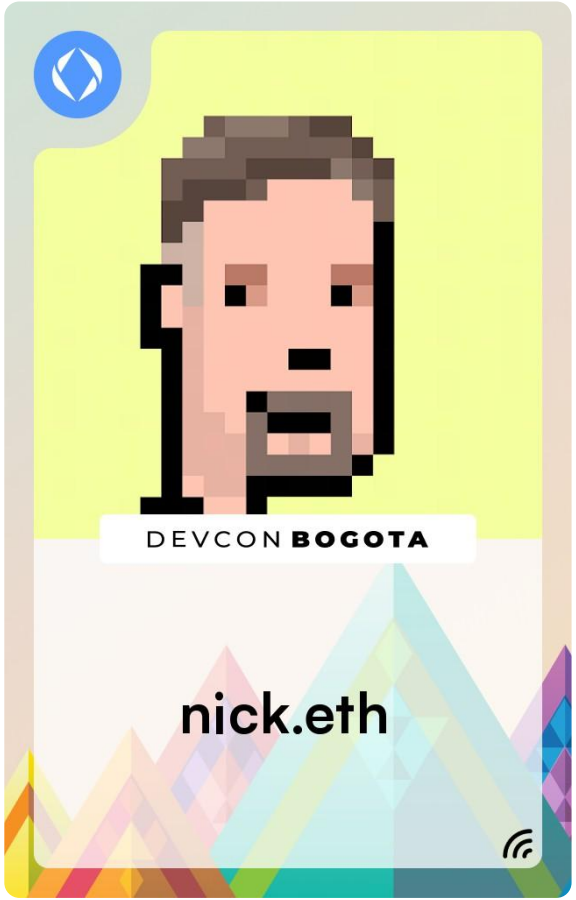
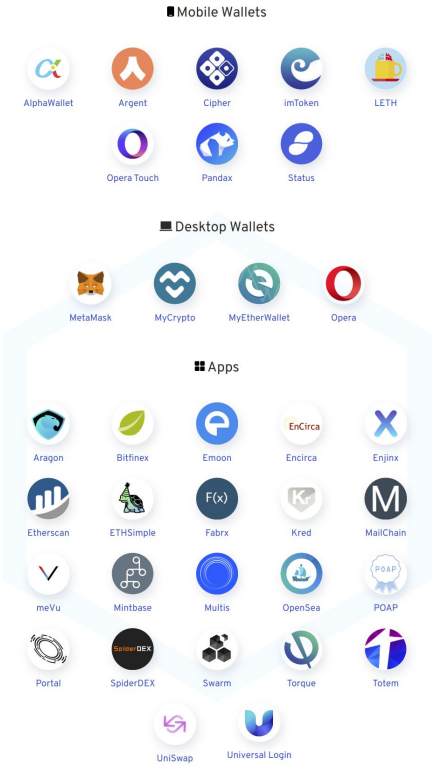


Agenda

1. Recap
2. Thorin: ENS's new look
3. Scaling ENS with EIP-3668 & EIP-5559
4. The Name Wrapper & other beasts
5. Zero-gas DNS integration
6. Conclusion

Recap

When we last left our heroes...



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Time-skip to the present day

ENS Growth Since 2019

	October 2019	October 2022
Integrations	34	507
Active Registrations	310,000	
Unique Addresses	96,000	
Registration Years	66,700	
ENS Treasury	382Ξ	

DNS Integration for everyone

- 1331 / 1486 TLDs (89.5%) support DNSSEC
- Every one of them can be used in ENS
- Just ask luc.computer

ENS as your web3 identity

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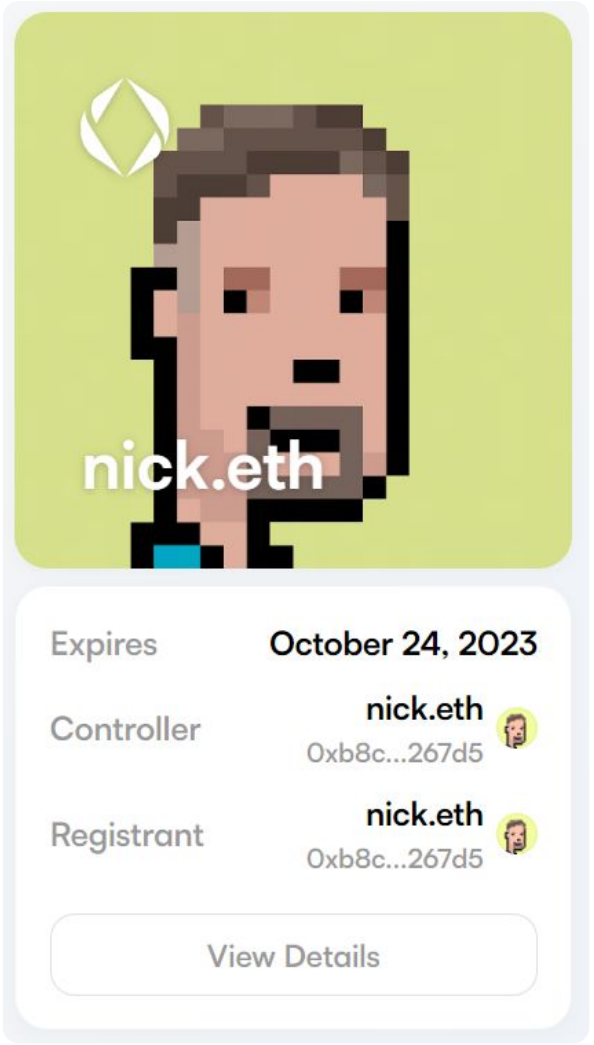

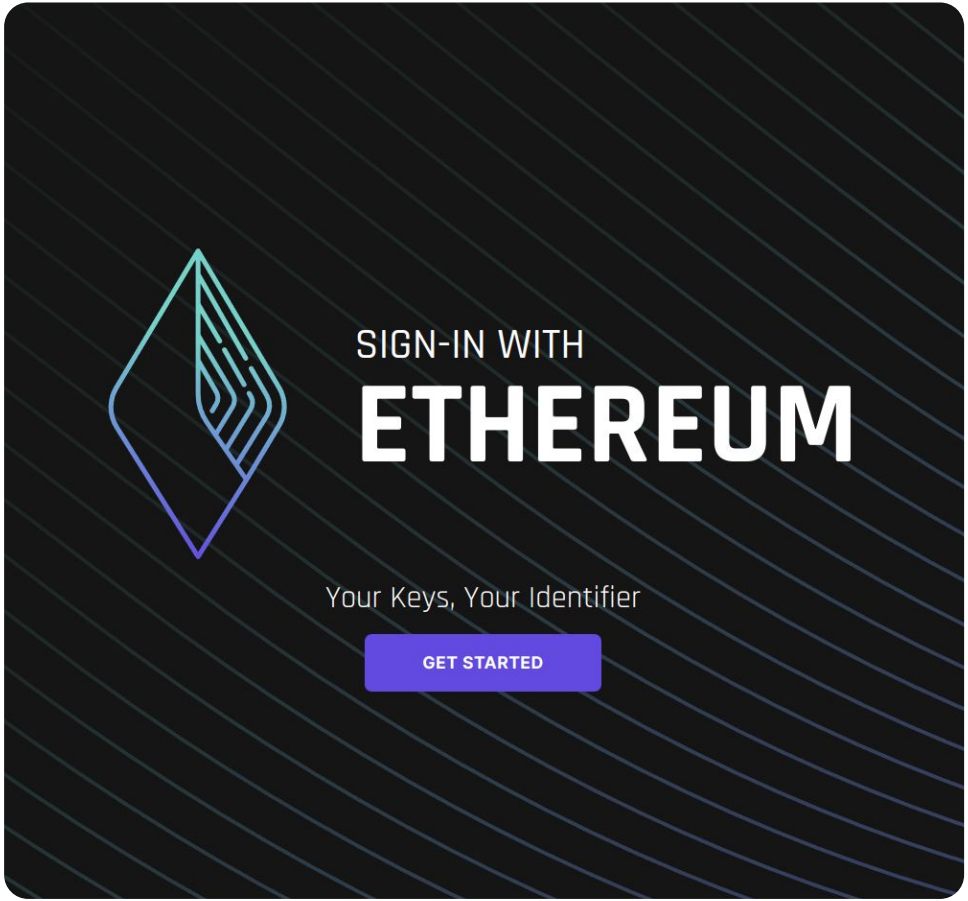

SIWE

The result of a joint grant from ENS and the EF

Now a major part of web3!

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ENS DAO

- Over 30 proposals passed
- >11k onchain voters
- >800 MAU
- 3 active WGs
- Grant Programs

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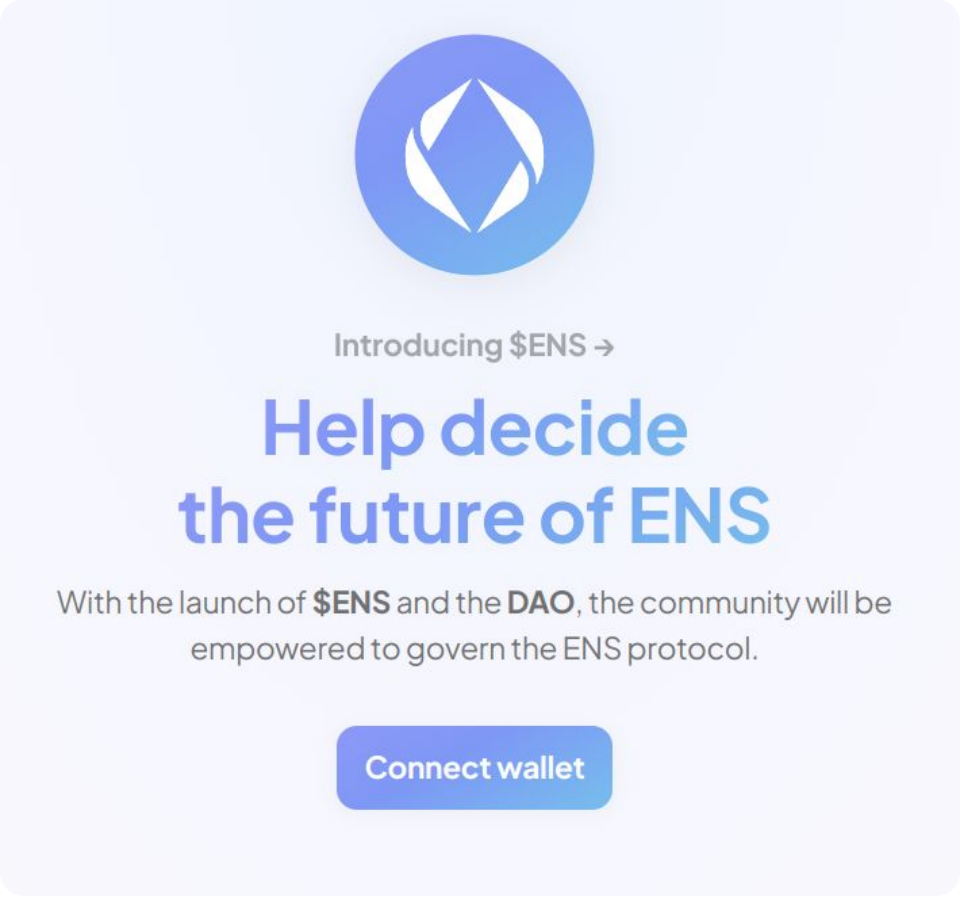

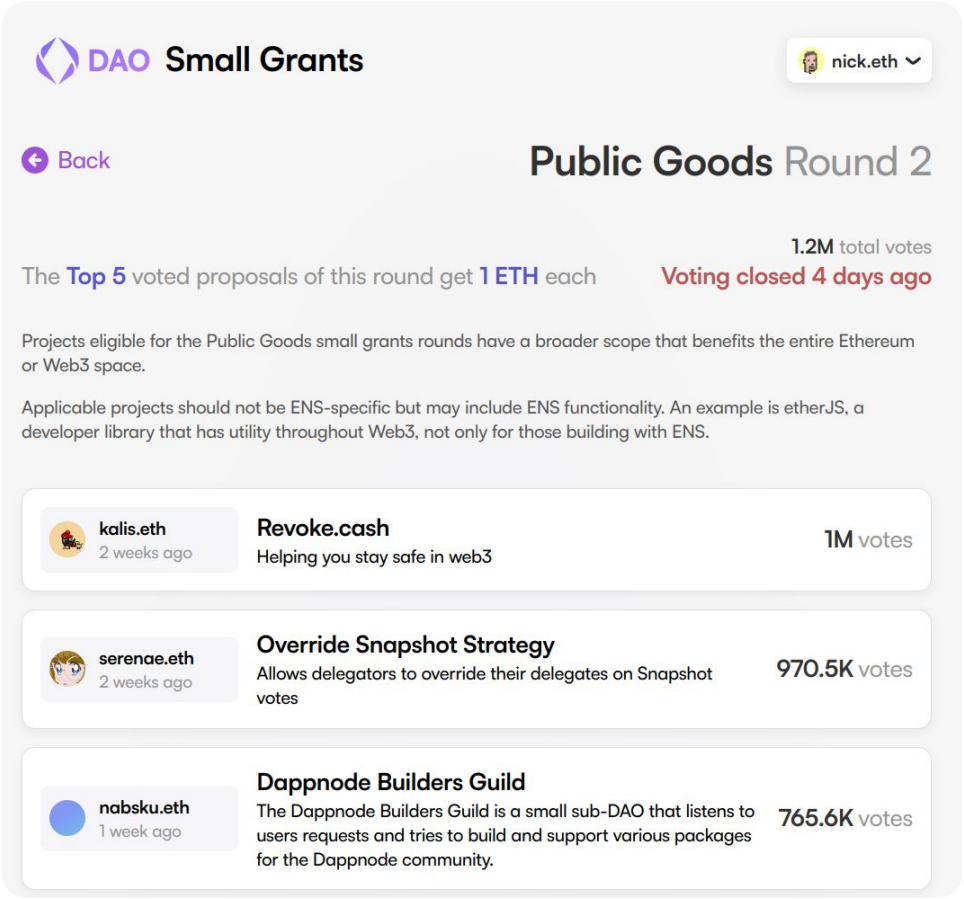

DAO Highlight

Small Grants Program

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DAO Highlight

Public goods funding

- 200k ENS to Protocol Guild
- $169k GitCoin Matching Pool
- Over $400k in grants last quarter

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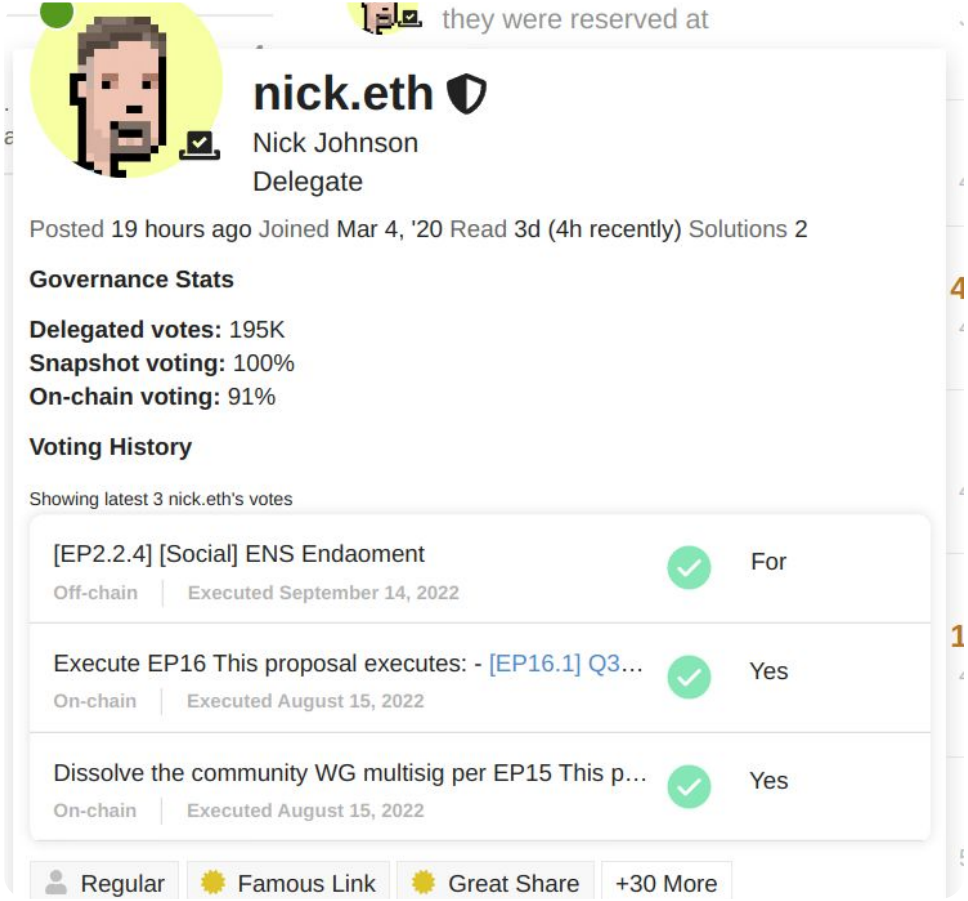

DAO Highlight

New normali[sz]ation function replaces UTS-46.

😄👍

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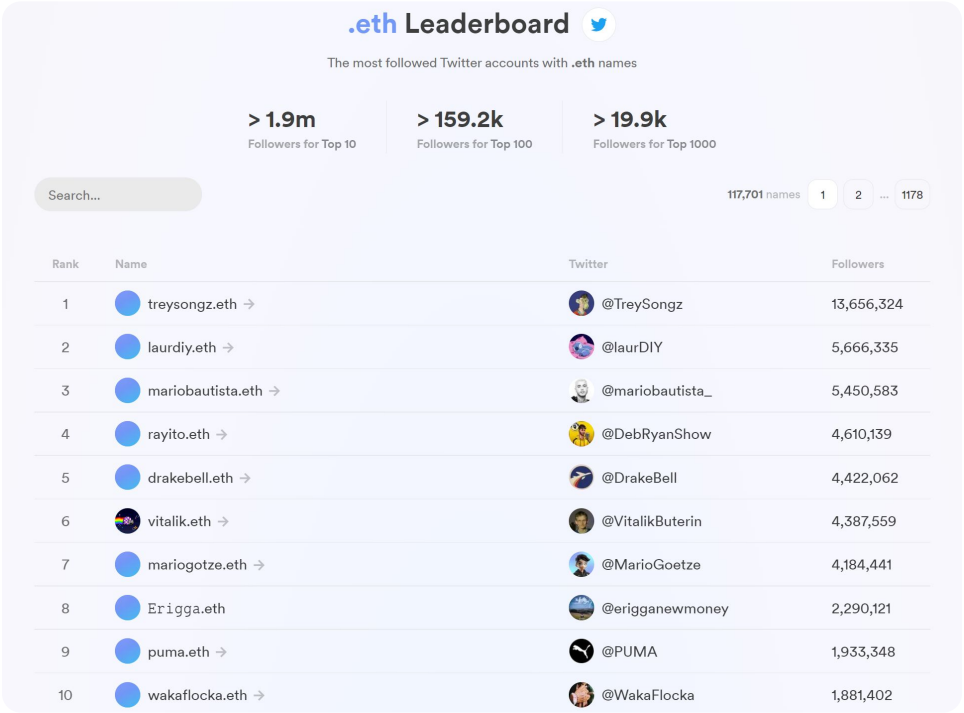
Community Projects

ethleaderboard.xyz



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Community Projects

ens.vision

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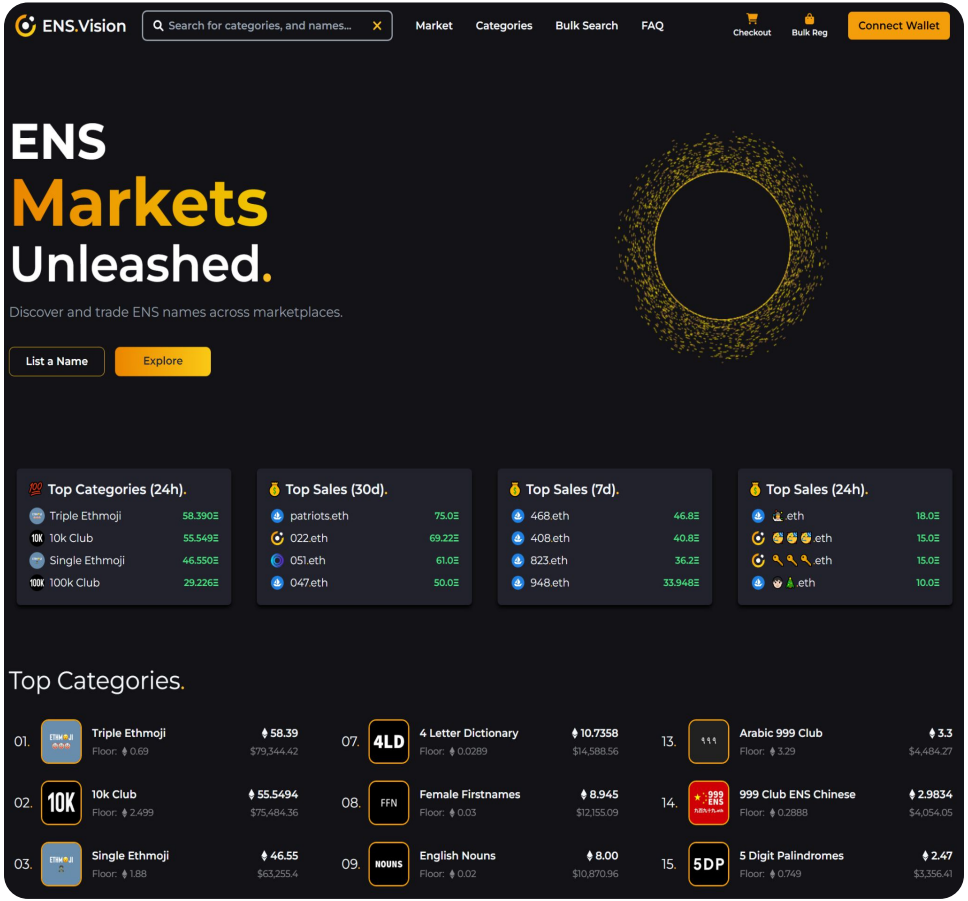

Community Projects

nimi.io

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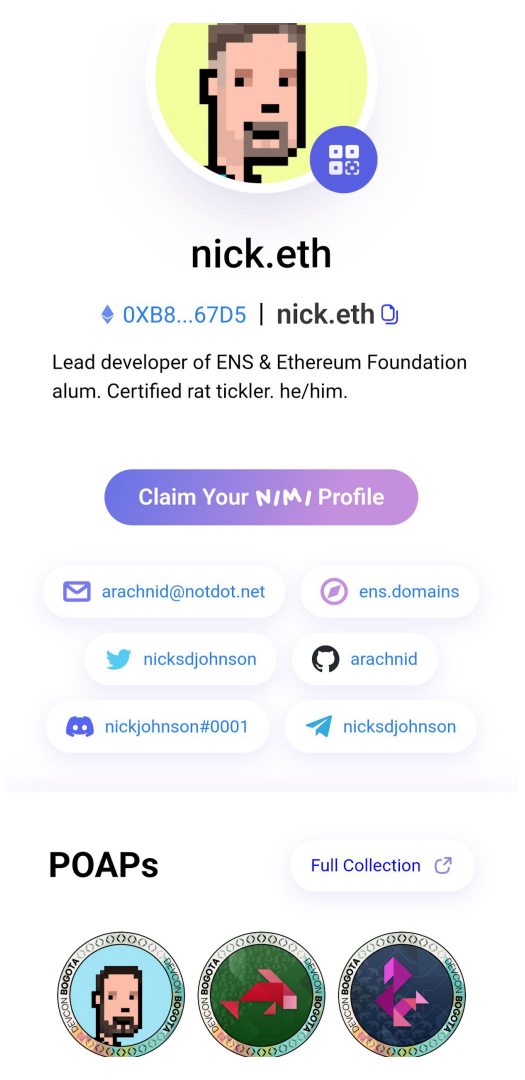

True Names Limited

↓

ENS Labs Limited

Thorin: ENS’s new look

Web3-first design

- Faster
- Mobile-friendly
- Better UX for new and experienced users

alpha.ens.domains

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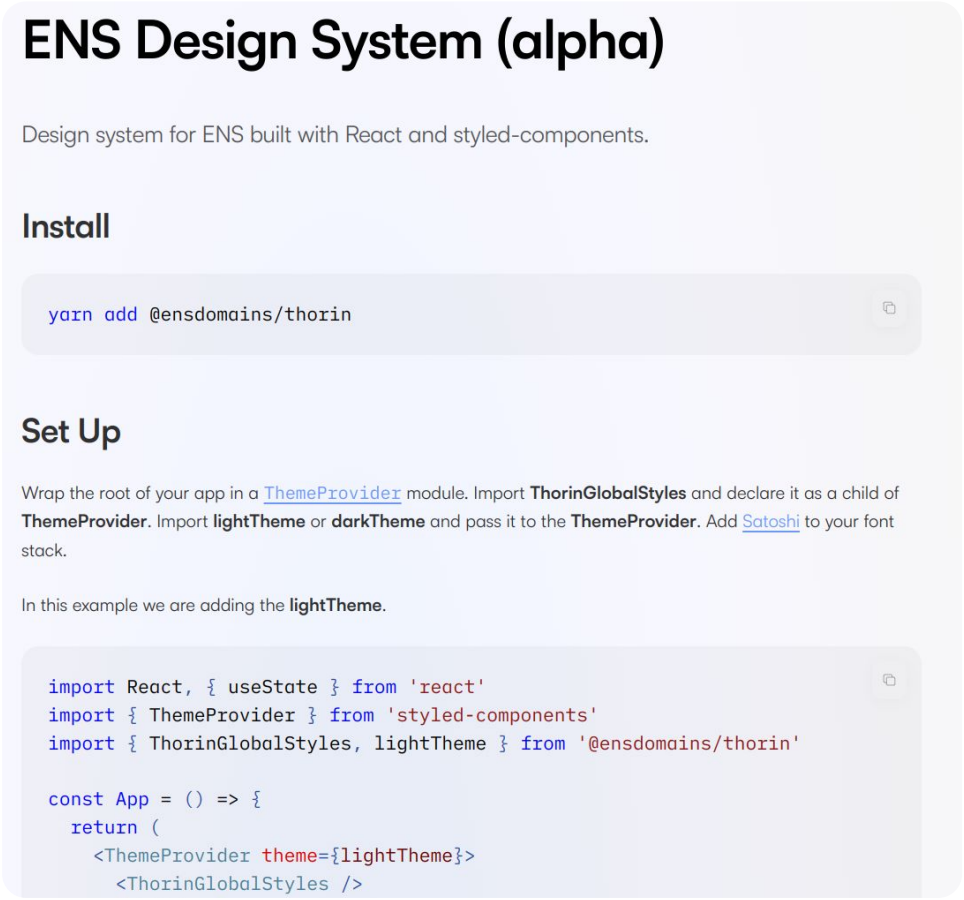

ENS Design System (alpha)

Design system for ENS built with React and styled-components.

Install

```
yarn add @ensdomains/thorin
```

Set Up

Wrap the root of your app in a ThemeProvider module. Import **ThorinGlobalStyles** and declare it as a child of **ThemeProvider**. Import **lightTheme** or **darkTheme** and pass it to the **ThemeProvider**. Add Satoshi to your font stack.

In this example we are adding the **lightTheme**.

```
import React, { useState } from 'react'
import { ThemeProvider } from 'styled-components'
import { ThorinGlobalStyles, lightTheme } from '@ensdomains/thorin'

const App = () => {
  return (
    <ThemeProvider theme={lightTheme}>
      <ThorinGlobalStyles />
```

Not just for ENS

thorin.ens.domains

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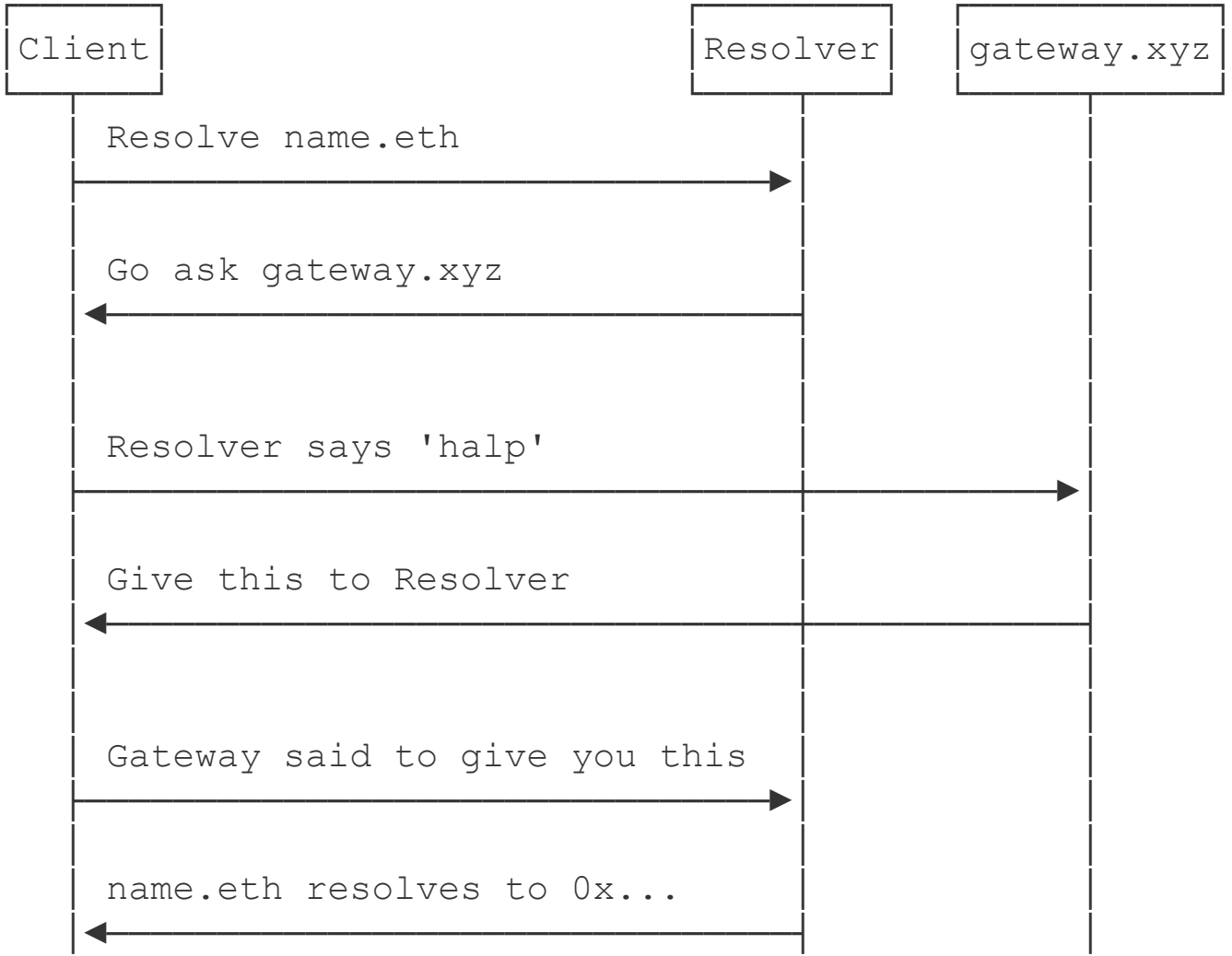
Scaling ENS

With EIP-3668 and EIP-5559

CCIP-Read / EIP 3668

Store data offchain with:

- No new trust assumptions
- No client knowledge of the system in use
- No L1 commits on update
- No transactions for queries
- No hard requirements on the L2’s capabilities

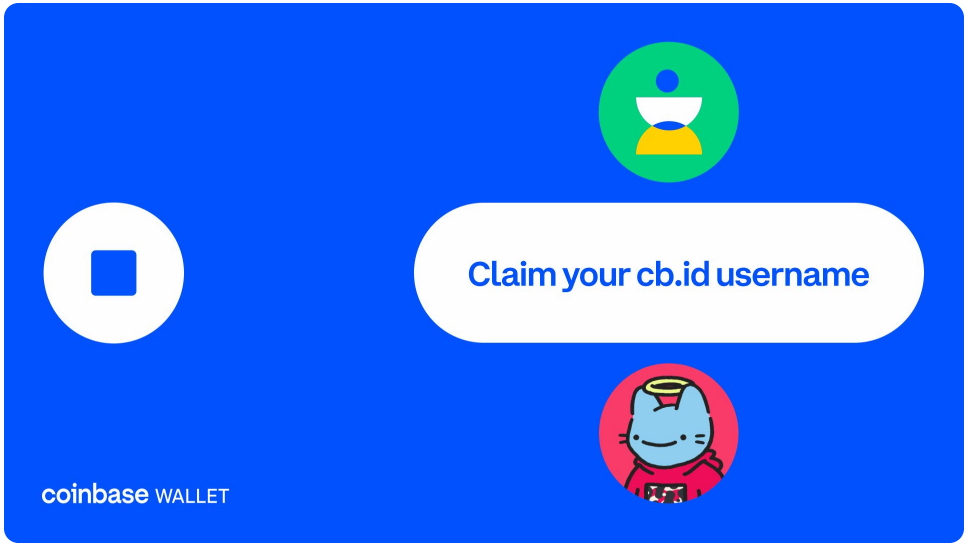

Client
Resolver
gateway.xyz
Resolve name.eth
Go ask gateway.xyz
Resolver says 'halp'
Give this to Resolver
Gateway said to give you this
name.eth resolves to 0x...

CCIP-Read in the wild

- EIP-3668 is final
- Supported in ethers and web3.py
- Supported in major apps too: Metamask, Coinbase, Etherscan
- Not just for ENS!

Coinbase ↔ ENS

Issuing .cb.id names via CCIP-Read



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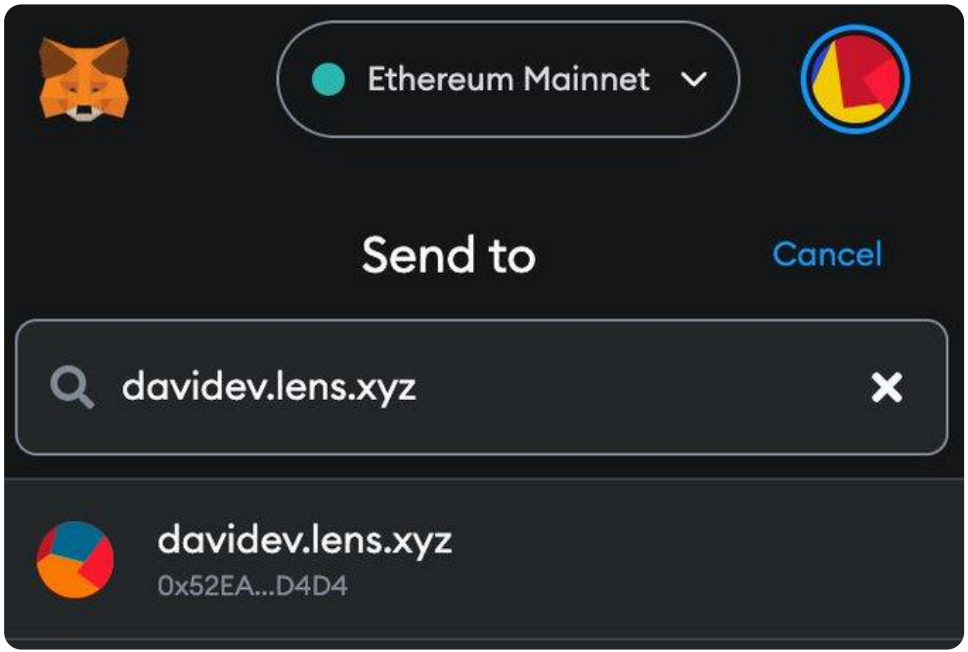

Lens ↔ ENS

Lens ENS bridge via .lens.xyz

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EIP-5559: Write Deferral

In collaboration with Coinbase

- Write via L2/Sidechain
- Write via signed message

The Name Wrapper and Other Beasts

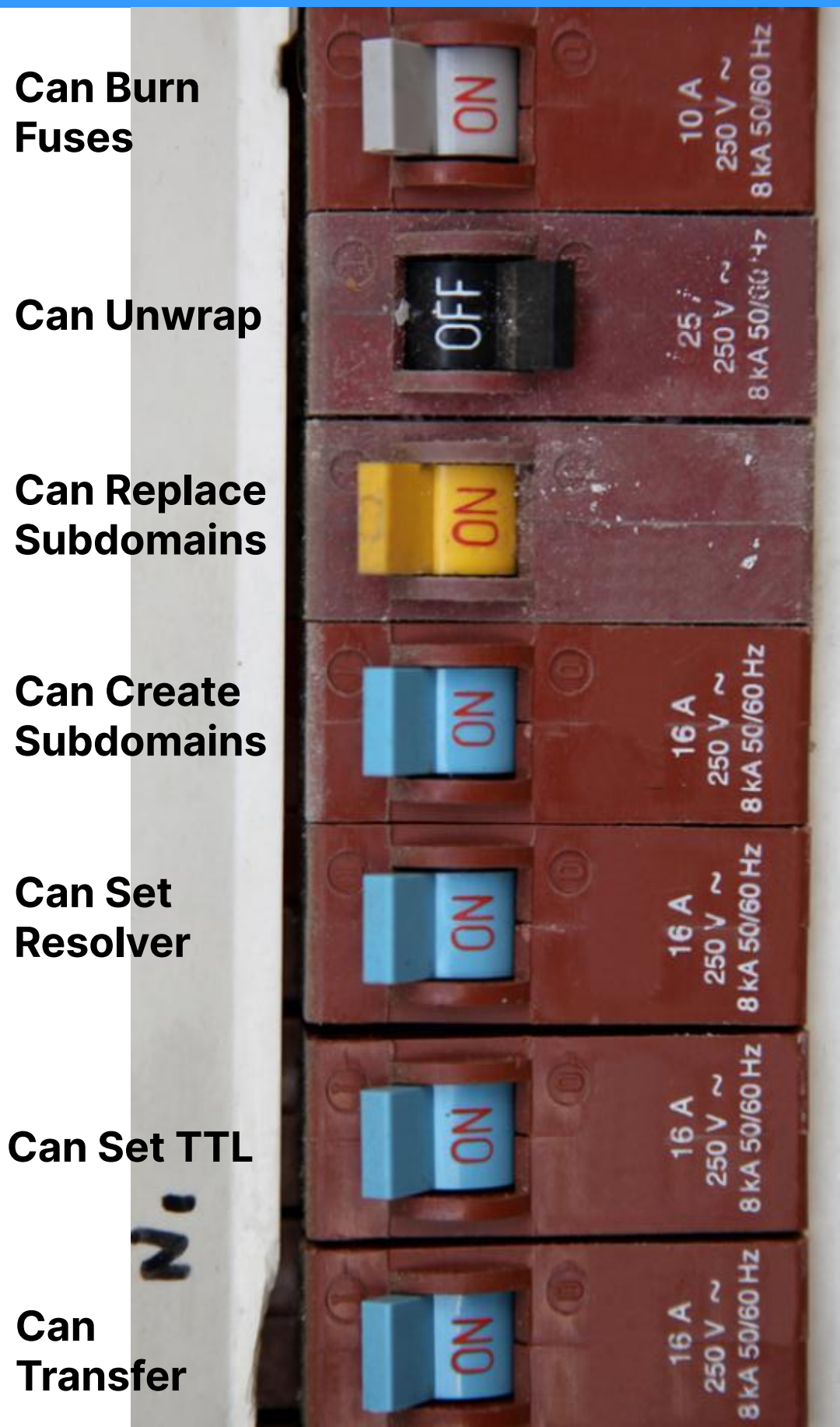
The Name Wrapper

Problem:

- .eth 2LDs (eg foo.eth) are ERC-721 NFTs, but other ENS names aren't
- Trustlessly issuing subdomains is possible, but awkward

Solution:

- The Name Wrapper makes all names ERC-1155 NFTs
- **and** facilitates trustless uses of ENS


Can Burn Fuses
Can Unwrap
Can Replace Subdomains
Can Create Subdomains
Can Set Resolver
Can Set TTL
Can Transfer
ON
OFF
10 A
16 A
250 V ~
8 kA 50/60 Hz

Other Beasts: Contract Improvements

- New .eth registrar controller
  - Improved gas efficiency
  - Bulk record setting at registration time
  - Set primary name at registration time
- New reverse registrar
  - New events for better Graph support etc
  - Contract owners can claim on behalf of contracts
- New public resolver
  - Support for clearing all records via versioning mechanism

CCIP-Read + DNSSEC = Zero-Gas DNS

DNSSEC Overview

- Zones are signed using a chain of trust, like SSL/TLS
- Special records are used to store keys and signatures - DS, DNSKEY, RRSIG, etc
- ENS's DNS integration uses this to verify claims of ownership

CCIP-Read to the rescue

What's DNS if not a large offchain database with cryptographic proofs?

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Wrapping Up

Get involved in Governance

https://ens.domains/governance/

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Thank you

Devcon 6 Bogota

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