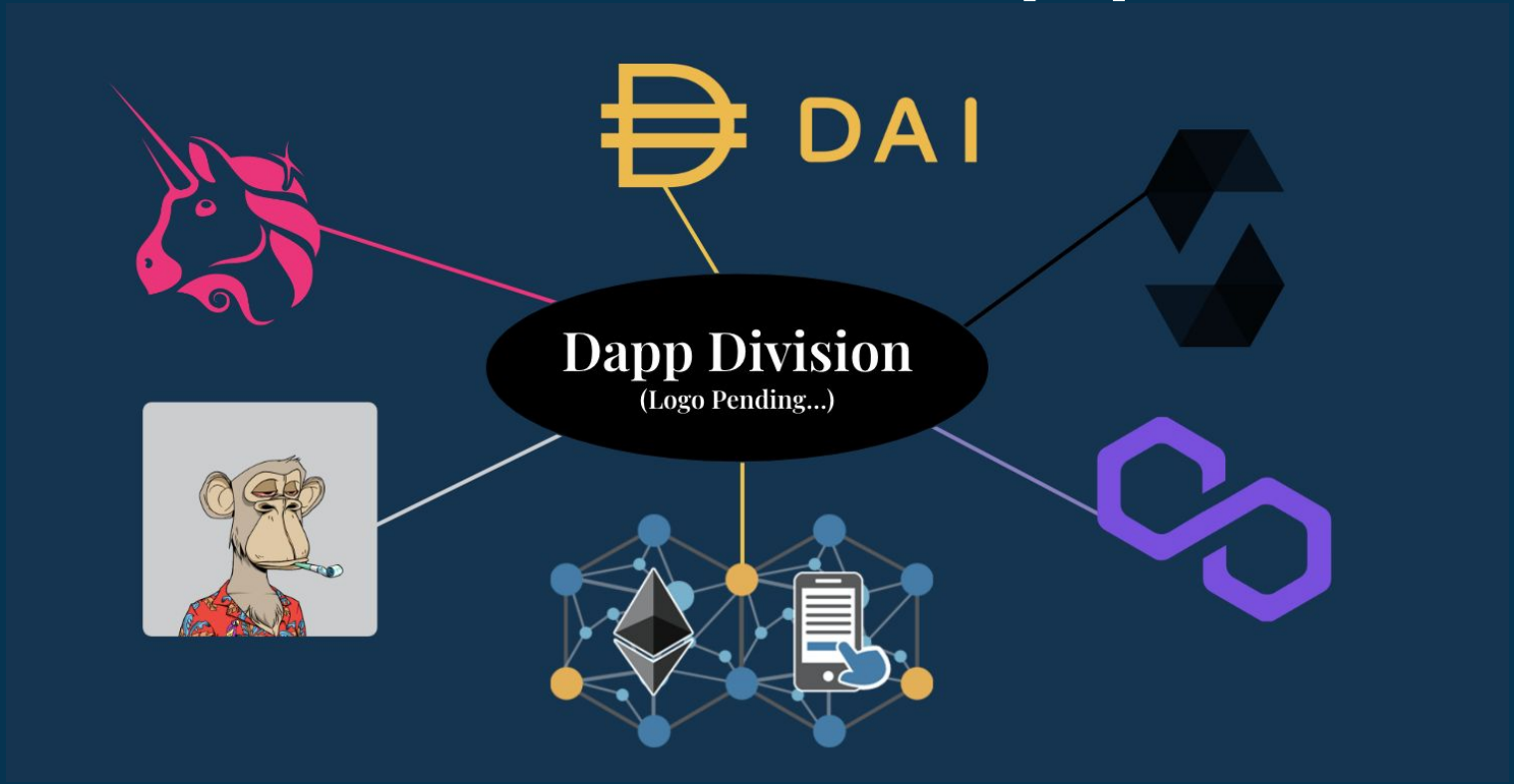
Oregon Blockchain

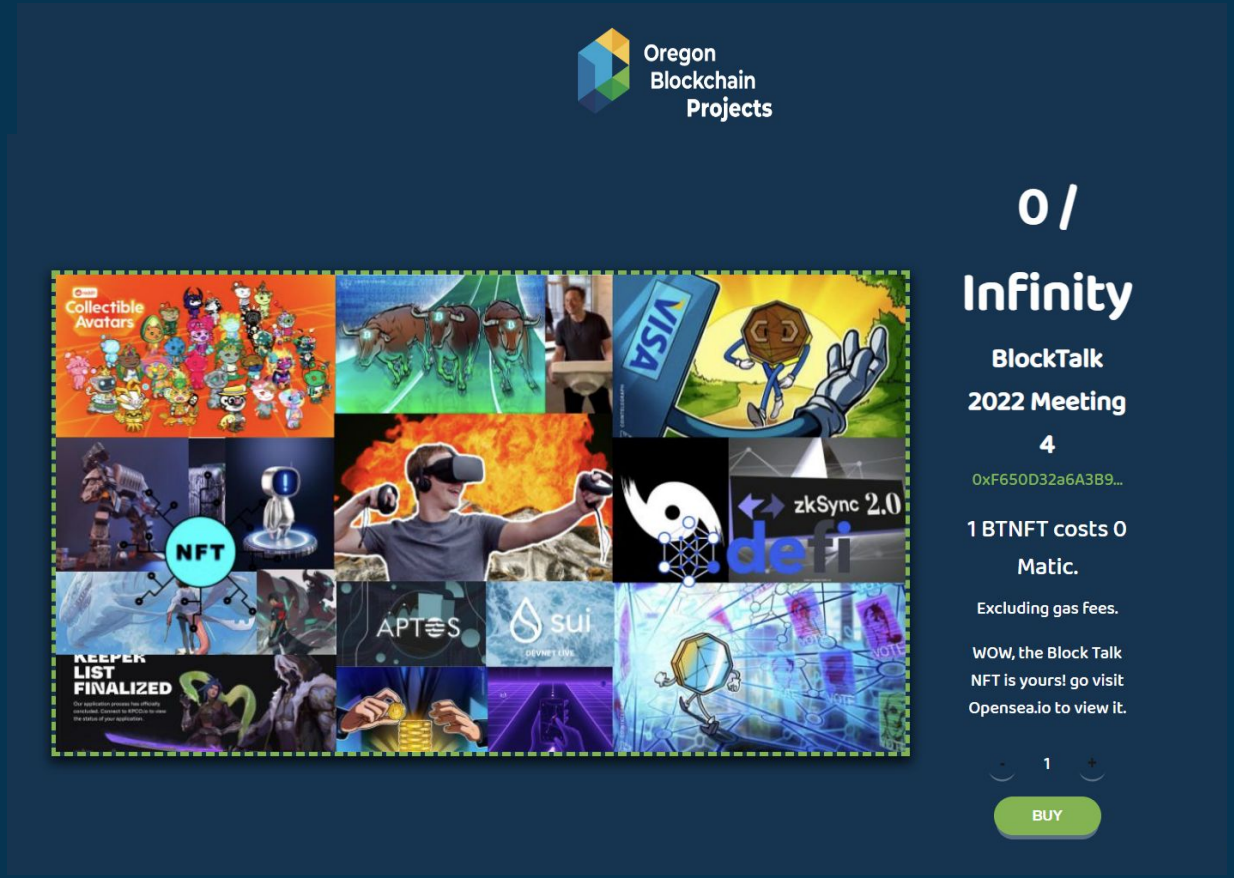
# Week 4: Dapps!



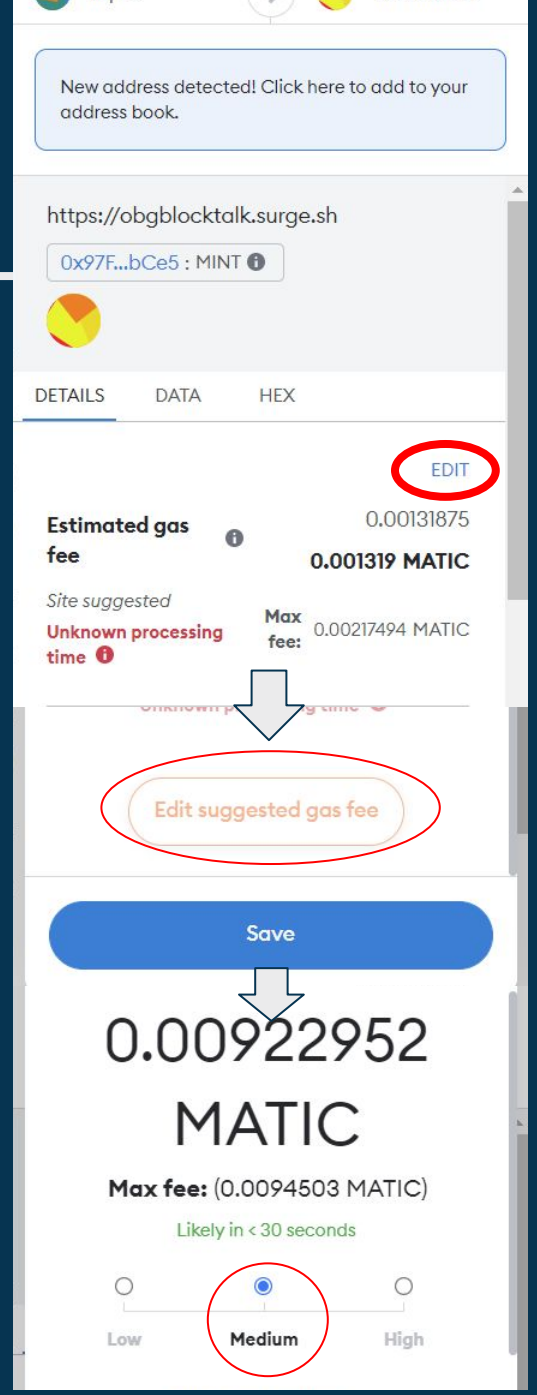
# AGENDA

1. BlockTalk
2. Revisiting VMs - Virtual Machines
3. Go over DAPP structure
4. Connecting to Node RPC
5. Tornado Cash
6. BlockSpace explained

# Block Talk NFT




obgblocktalk.surge.sh



# Homework!

- Running a node
- Who read Bitcoin independence day?


CRYPTO
BRIEFING


$1?


KPR


PROJECT


BINANCE
FTX


defi
GALA GAMES
(GALA)


AZUKI AMBUSH
www.cryptotimes.io

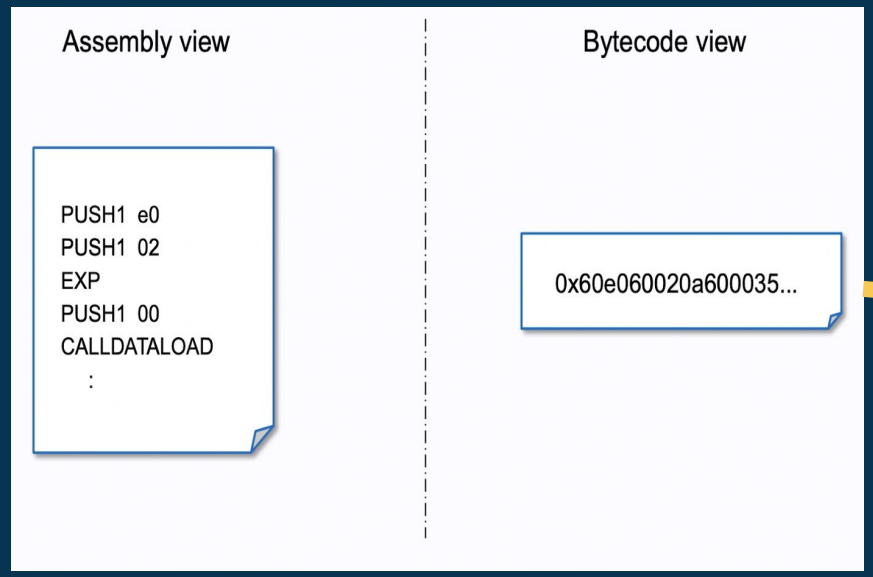

-100.00%
FTX
EL SALVADOR

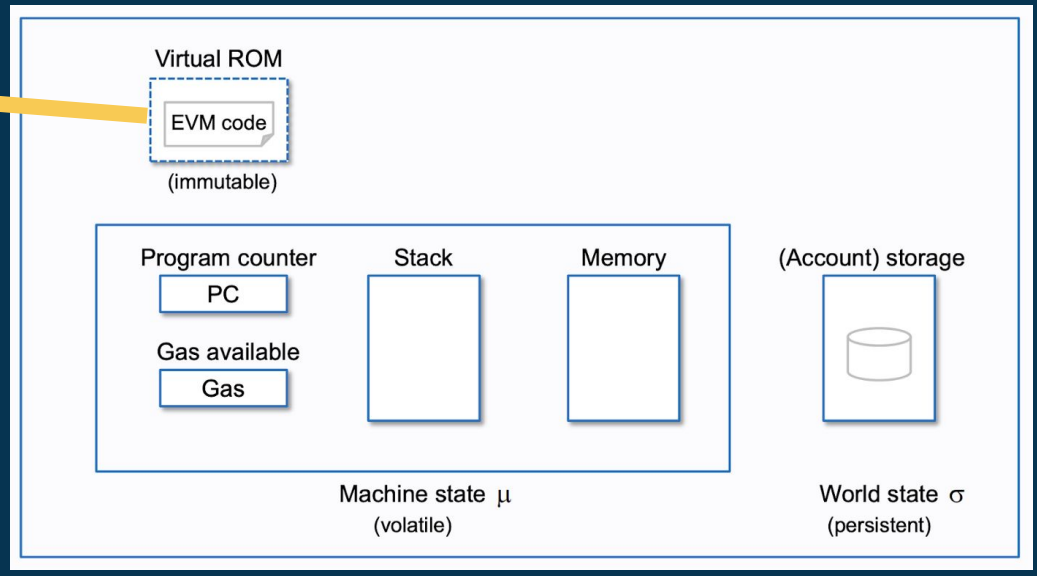

crypto.com


SOLANA

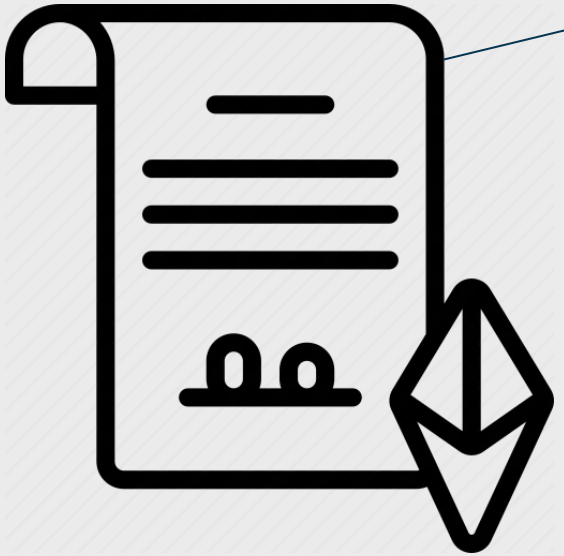

DBS
crypto.news

# Revisiting VMs



# Revisiting VMs



“Hey send John 1 ETH”

**Compiler**

0xe0dad03b9CD74FD67
D1288773525467b261C2
008

**EVM**

+1

-1

# What is a Dapp?

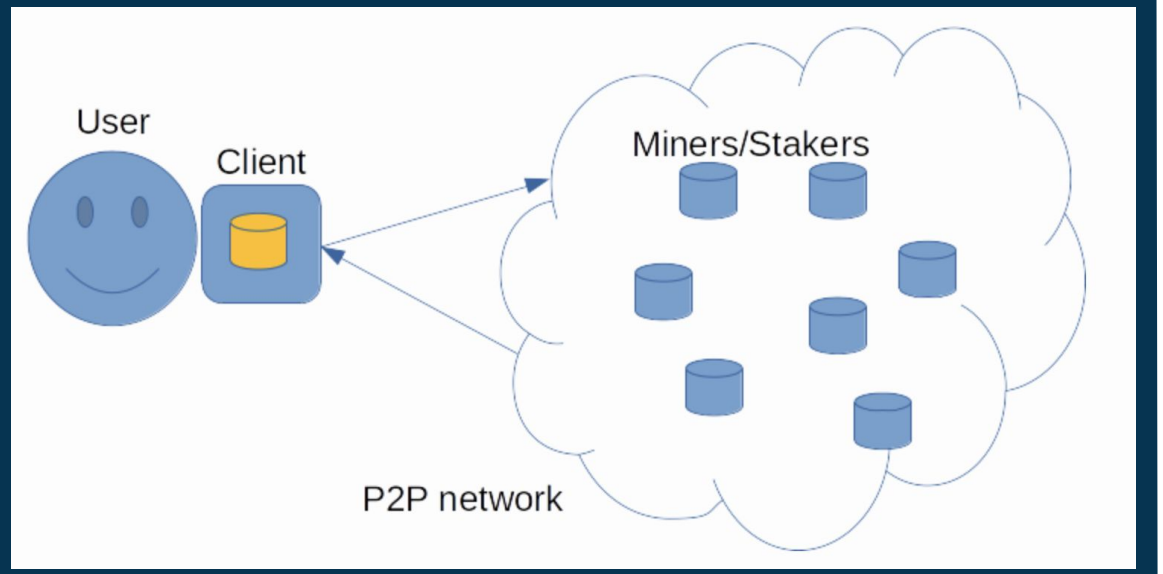
## Popular Dapps!




## Dapps in the OBG Fund!




# Dapps




# Cefi

BlockFi

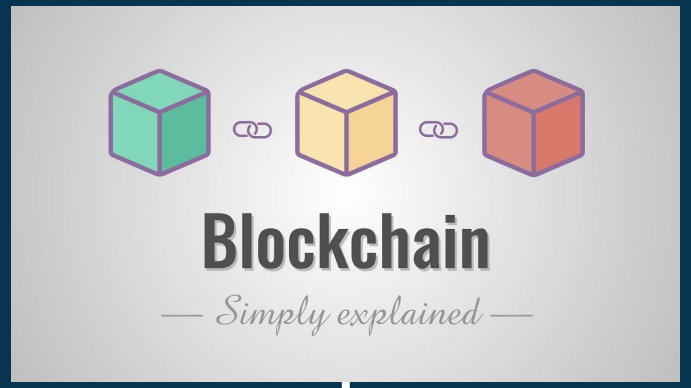
VOYAGER

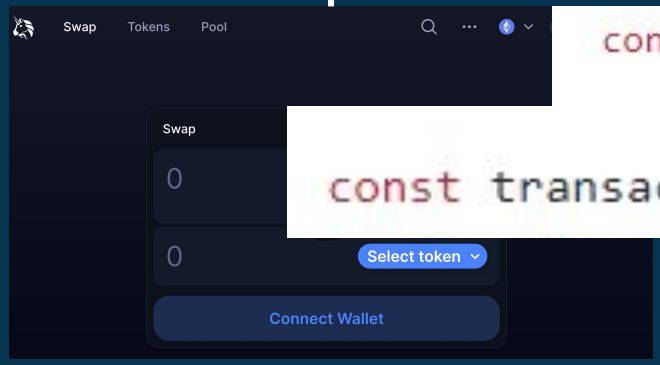
coinbase

BINANCE

FTX

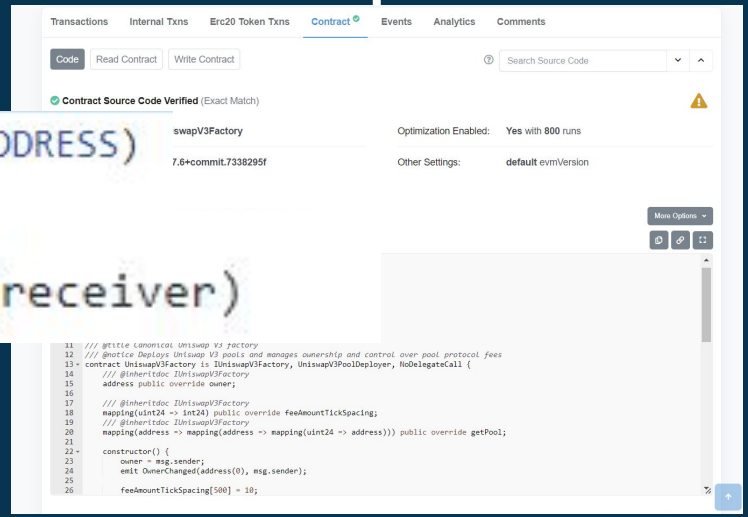
# Dapp Structure




```
const contract = new web3.eth.Contract(ABI, ADDRESS)
```

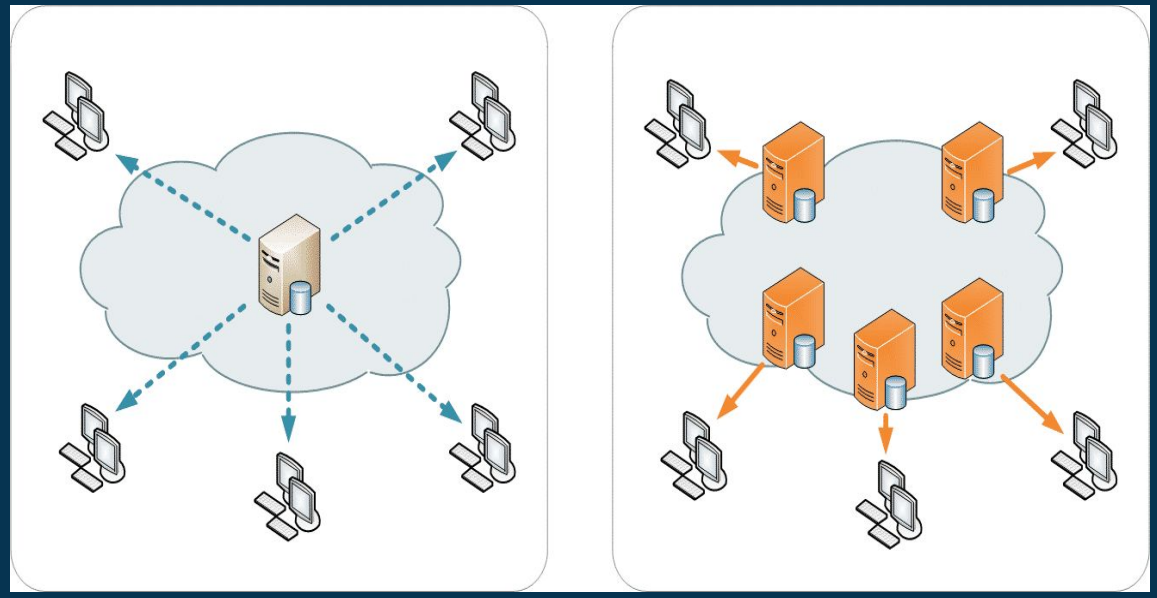
```
const transaction = contract.methods.safeMint(receiver)
```



# Centralized Storage 😫

- Where the keys at?
- Who stores your data?
- FRAUD validators

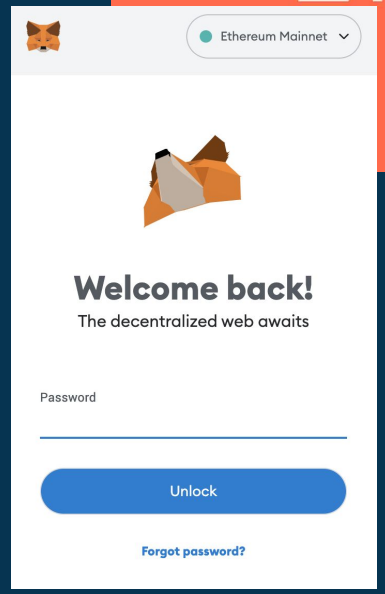
💩💩💩💩💩💩 SHITSHOW!!!

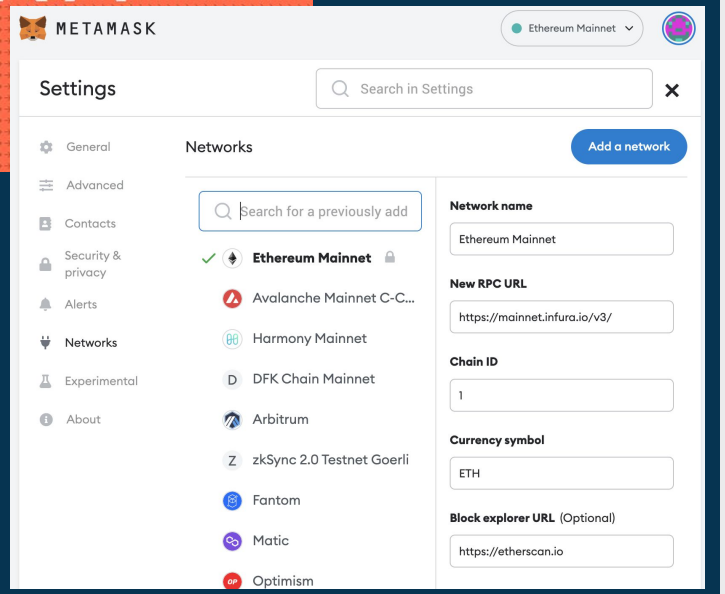


# How do your keys interact with Dapps?

- Running a node is hard!
- Browser wallets
- RPC nodes

- Interacting with smart contracts directly?

# Tornado Cash

- Government no likey!
- Banned app
- Can interact with contracts directly (at your own peril!)
- Frontend was censored!


# Dapp Endgame

## Bad parts of dapps

1. Centralized frontend
2. Centralized RPC service

## Improvements

1. IPFS? Opensource?
2. Run your own node! In the future, browser clients :)

# What Dapps can we use today?

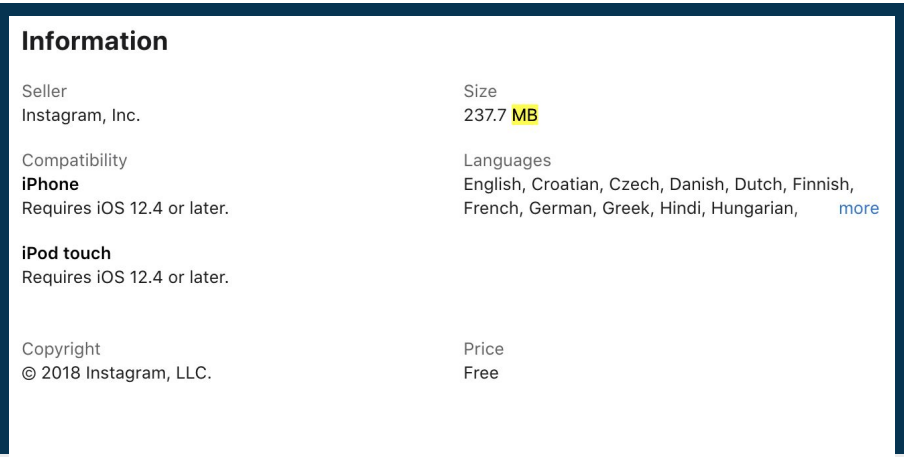
Today:

- Low compute apps, blockspace/compute too expensive for anything cool!
- Defi
- NFTs

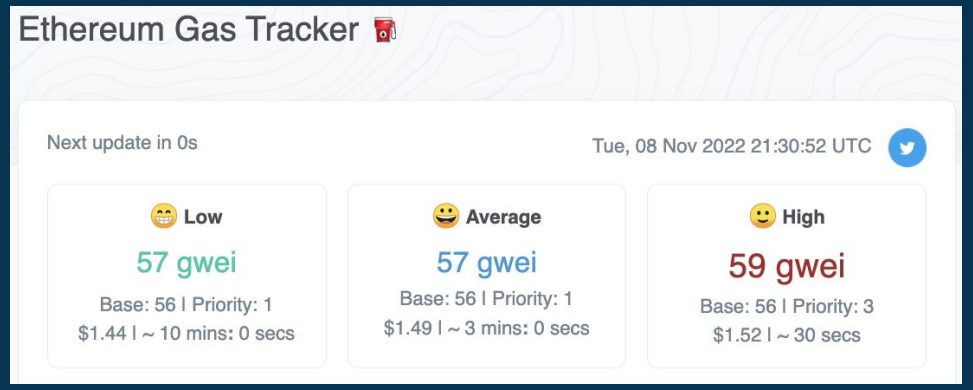
Future

- Ethereum working very hard to make compute cheaper!
- Video Games
- Social Media
- More interactive and immersive dapps!

# Blockspace Example


- Ethereum block size changes!
- 237.7 / .081092 = 2,931
- 2,931 * (15,000,000*1.49)= $65 million



# Onboarding Checklist

- ✅ Week 1: Introductions
- ✅ Week2: What blockchains solve
- ✅ Week3: How a blockchain works
- ✅ Week4: How to use a blockchain
- Week5: Social layer (why blockchains!)


1. Make a browser wallet
2. Store private keys
3. Use Uniswap or something from the OBG fund!