



Ethereum Ecosystem

Dive into the Dapps

A black and white line drawing of three hands in various poses representing Rock, Paper, and Scissors. A large dark gray circle is centered over the image, containing text. Arrows point from the text in the circle to the corresponding hand poses: 'Rock' points to the Rock hand, 'Paper' points to the Paper hand, and 'Scissors' points to the Scissors hand.

Warm-Up : Let's play a Game

Rock-Paper-Scissors

A Small Reward for the winner !



Intro

- Marc Zeller [@Barbuetmechant](https://t.me/Barbuetmechant)
[/u/pandemiczell](https://t.me/pandemiczell)
- Lemiscate on Telegram
- Marczeller.eth
- Former Consensus member [VariabL.io](https://t.me/VariabLio)
(derivative decentralized marketplace)
- Founder of [Asseth](https://t.me/Asseth) (organizer of the
EthCC, educational ethereum
non-profit)
- Co-Founder of The Block Cafe
- Analyst @ Coinhouse (Regulated
French Broker)

Say hi on Telegram!

Intro : What is Ethereum?



- Ethereum is a **Blockchain** : *Block* = Bunch of data *Chain* = Linked to each others.
- Blockchain is the worst, the slowest and the most expensive *database* ever built, but is the most secure **Ledger** ever built.
- *Public* Blockchains are **Decentralized**, (bunch of *Nodes*, no “turn-off” button)

Intro : What is Ethereum?



- Ethereum is a **World Computer**, designed to run unstoppable and immutable code.

Cons :

- Slow, Expansive, limited.

Pros :

- Secure, Unstoppable, *Trustless*

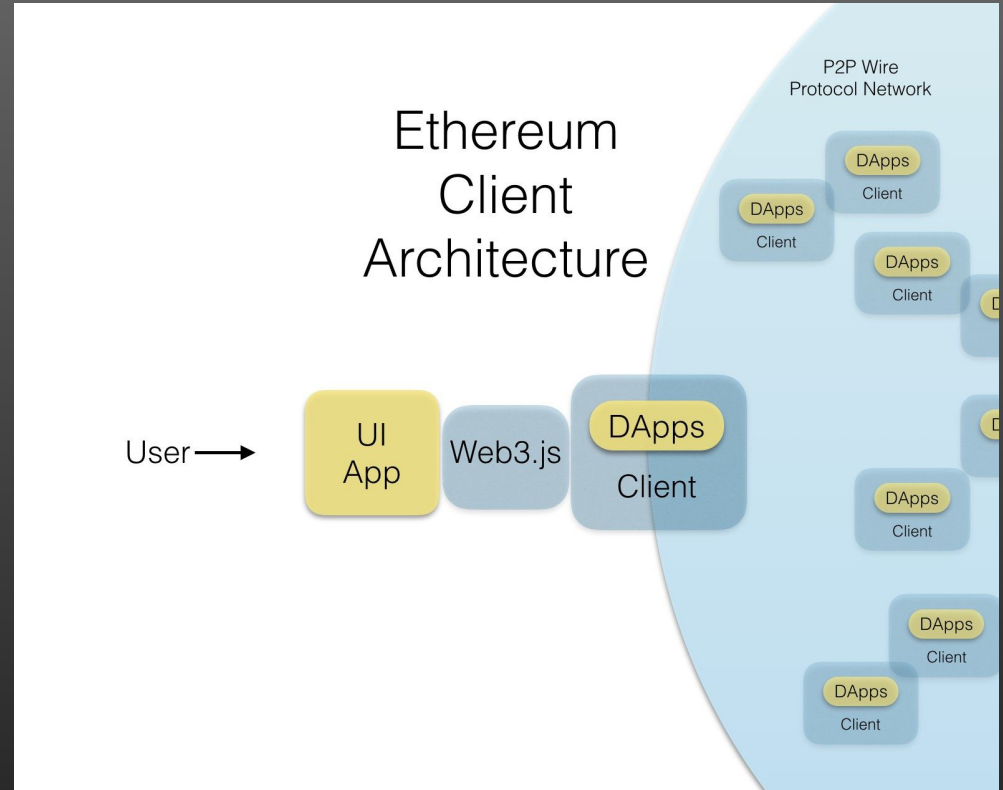
Having a Wallet : The Hardware wallet

- Hardware wallet is not a wallet but a key ring
- Only thing they enable : Sign securely.
- A crypto-wallet is always as secure as the hardware hosting it (Smartphone, Computer, Paper)
- Hardware secure by design.
- Multi-blockchain support.
- More expensive, more secure.



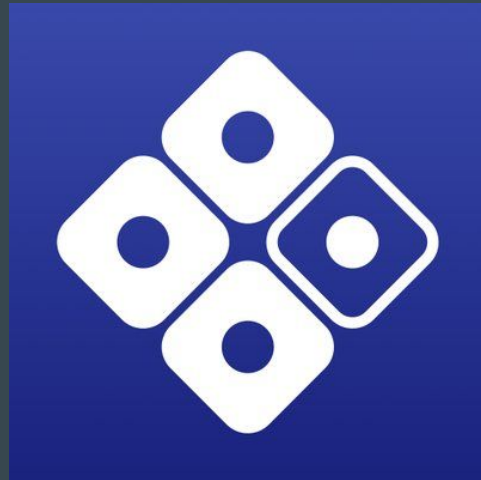
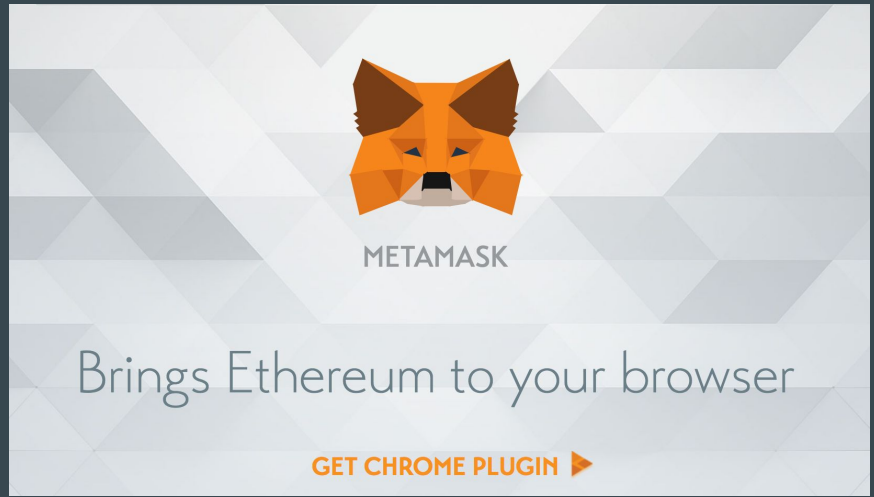
Having a Wallet : What is Web3?

- Web3 is the interface between internet and the EVM (Ethereum Virtual Machine)
- Web3 is based on Javascript
- Dapps websites relies on web3 clients to interpret request from the browser into Ethereum transaction (contract interactions)
- Everything can be done outside from the browser, the dapp Website is not centralisation.
- Web3 clients provide better UI/UX.



Having a Wallet : The Web3 Wallets

- Metamask made by Consensys tailored for easier UX
- Light client but can be linked to your own node.
- Trust or Cipher Browser Mobile Wallets
- Great UX but as secure as your Phone.



Having a Wallet :

The Client-side Wallets

- First mover : Myetherwallet.com
- Based on client-side Javascript everything is done on your browser
- Fast setup & free
- A split lead to competition : Mycrypto.com
- Possible contract Interaction.
- As secure as your computer is



MEW / mycrypto.com & Metamask Combo

- Download Metamask
- Send me your public address!

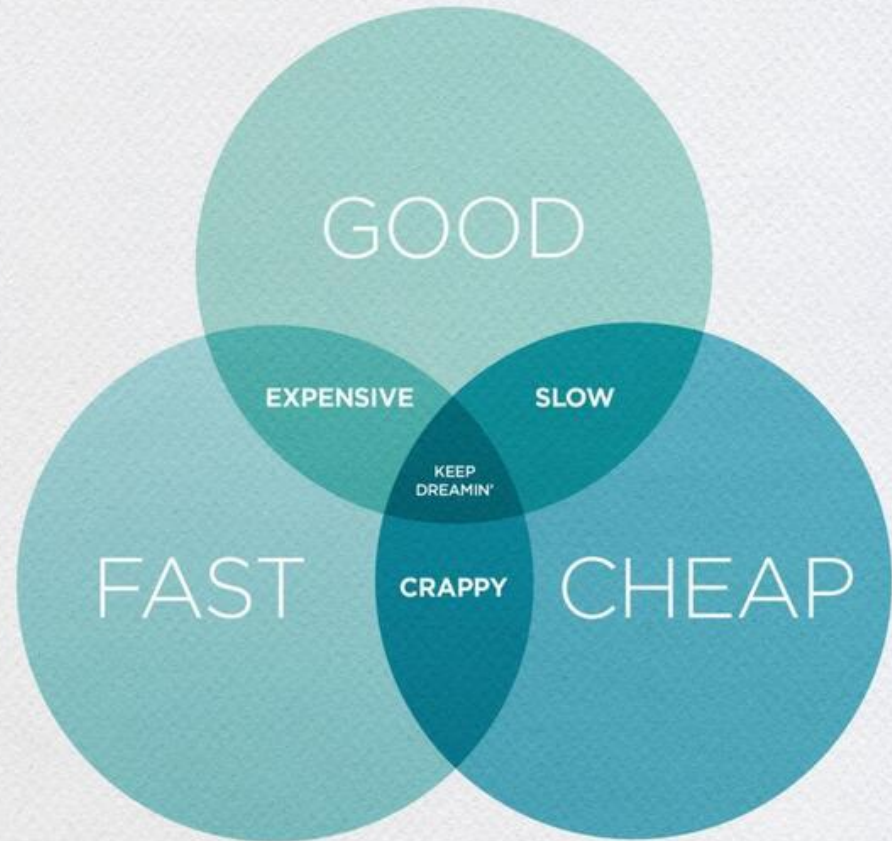
WRITE DOWN YOUR SEED



Acquire Crypto

3 Options :

1. Cheap but slow : Currency Exchange Marketplaces : (up to 0,26% fee but registration is slow and UI is painful)
2. Our solution : [Coinhouse.com](https://coinhouse.com) (4.9% fee and lower);



YOU CAN PICK TWO

Funding your Wallets with some ETH

- Contract interaction with myetherwallet.com
- Check a Contract on [Etherscan.com](https://etherscan.com)
- Call a function.

Funding your Wallets with some ETH

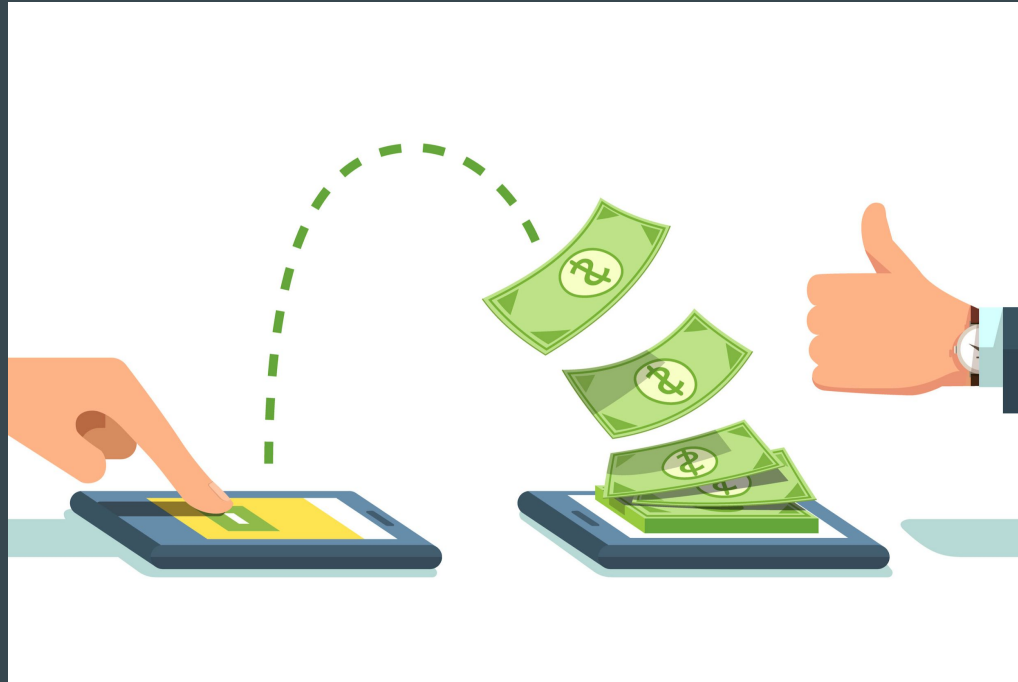
- The Contract : [0xe26FCE7f2bA3F8f1c56c2ef88B06AaeC3B513277](#)

```
34 }  
35 function multiSendEth(address[] addresses) public payable {  
36     for(uint i = 0; i < addresses.length; i++) {  
37         addresses[i].transfer(msg.value / addresses.length);  
38     }  
39     msg.sender.transfer(this.balance);  
40 }
```

- Few lines of code needed :
 - an array as input, public function
 - a loop to iterate through the addresses
 - divide the amount by the number of address, then send!

MyEtherWallet.com / mycrypto.com & [Metamask](https://metamask.com) Combo

Myetherwallet Contract interaction : let's do it live.



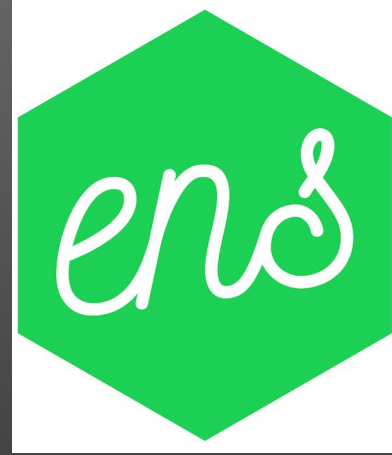
Dapp interactions

Great Ressources :

[Etherscan](#) (Check your Txs)

[EthgasStation.info](#) (Never Overpay)

[Eth gas price chrome extension](#) (Know what you should pay)



Dapp interactions

Gas is Oil, a commodity used to interact with the EVM

- Bitcoin is Gold, ETH is GAS
- Gas is Spam mitigation
- Gas is infinite loop issue solver.
- You can decide of how much you're willing to pay for gas (GASPRICE)
- You can decide the Max Amount of Gas you're willing to use to do stuff (GASLIMIT)



$$(GASPRICE * GASLIMIT) = TX Fee$$

How much you want to pay * How many you want to use
= Total Cost of doing stuff

Dapp interactions

Good to know :

- Minimum Gas amount : 21k units (at a gas price of 1 Gwei/gas unit it's 0.000021 ETH (0.01\$))
- Gas is always paid in ETH so you need some ETH to send some fancy ERC20 tokens
- Gas limit too high ? Unused gas is always sent back!
- Wanna know more? Check the [Appendix G of the Yellow Paper](#)



Don't know what to do ?
Don't touch the Gaslimit option of Metamask.

Dapp interactions

Getting rid of the crappy 0x... address format :

- Ethereum Name Service
- Replace the crappy 0x...
- Usable in almost every account interface
- A domain cost at least 0.01 ETH (4/5\$) and take 4 days to acquire... but a Subdomain starting price is less than 0.1\$ and instantaneous!
- Official service : now.ens.domains
- Alternative : ethsimple.com

Let's Get some great
ENS domains!



Dapp interactions

- Using Metamask & Mycrypto.com Combo
- Deciding on the best Gasprice according to the situation.
- Verify a TX status... and update it !



Let's play a game !

Dapp interactions

Playing a game

- Cryptokitties Alternative : [Etheremon](#)
- Catch a “pokemon”
- Train it
- Rent it
- Soon to be implemented in Decentraland



Let's Play

End of our Small Tour

Quick Recap :

- You Have an Ethereum Account
- With some ETH on it.
- You have a web3 wallet and know how to use it with a client-side javascript interface
- You Have a cool name for your Account and options to get a permanent one
- You know how to send and receive ETH
- ... And don't overpay for it
- You know how to train an Etheremon



End of our Small Tour

Want to learn more ?

- [R/ethereum](#) the front page of what happen in the ecosystem
- [@EthereumNetw](#) twitter account of curated news
- [The Ethereum White Paper](#)
- [stateofthedapps.com : every public dapps](#)
- [Coinmarketcap.com follow the price fluctuations](#)
- [Hackernoon intro course for Ethereum dev](#)
- [Cryptozombies.io](#) Friendly introduction of Solidity fundamentals



Q&A Time

Ask Me Anything!