

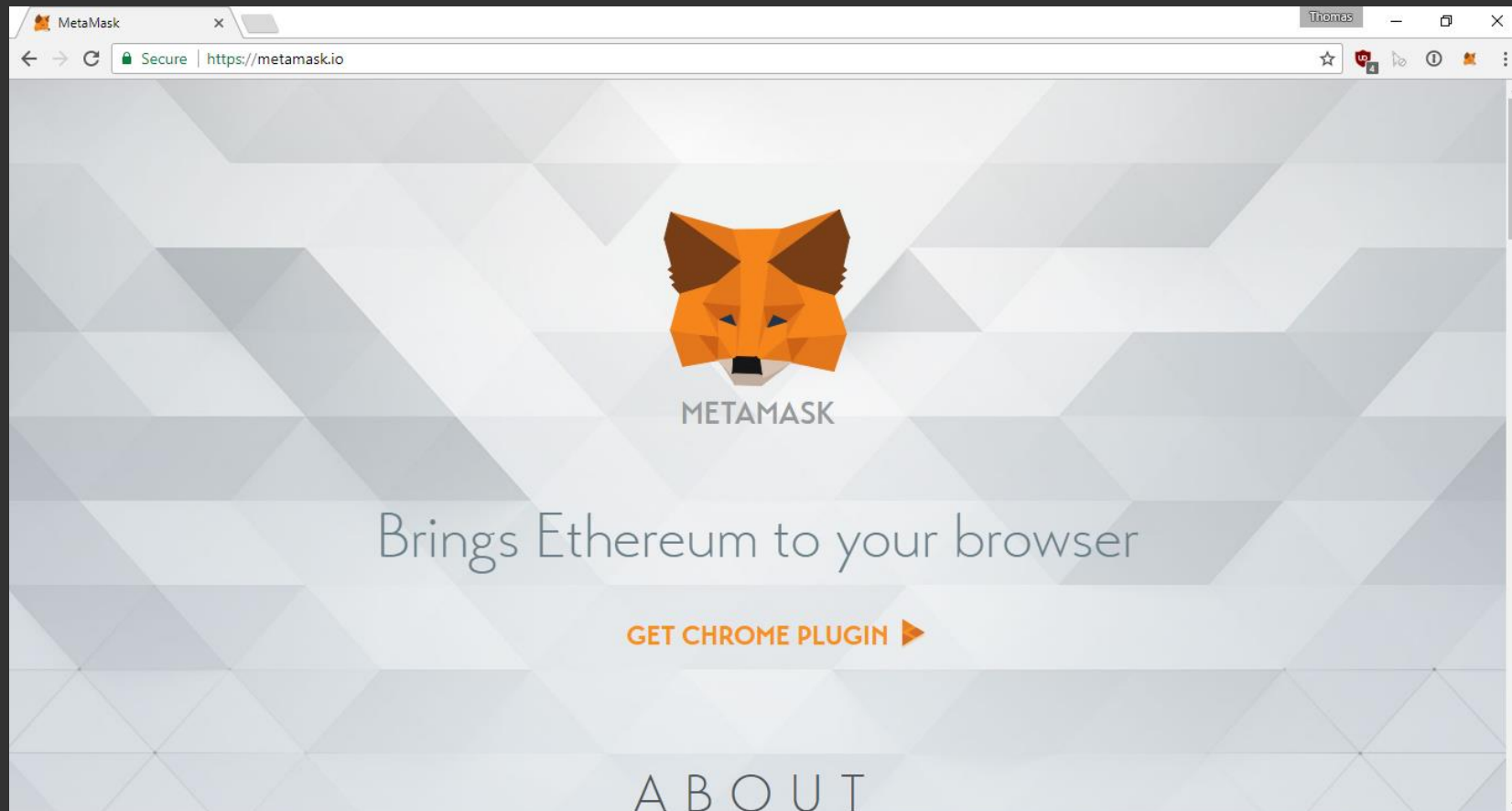
METAMASK

A Blockchain „Bridge“

WHAT IS METAMASK

- Chrome Plugin
- Similar to MIST-Browser
 - Just in Chrome
- No geth node
 - Is a bridge
 - Like a „light-client“ – but is none!
- A „Key-Store“ for your private keys

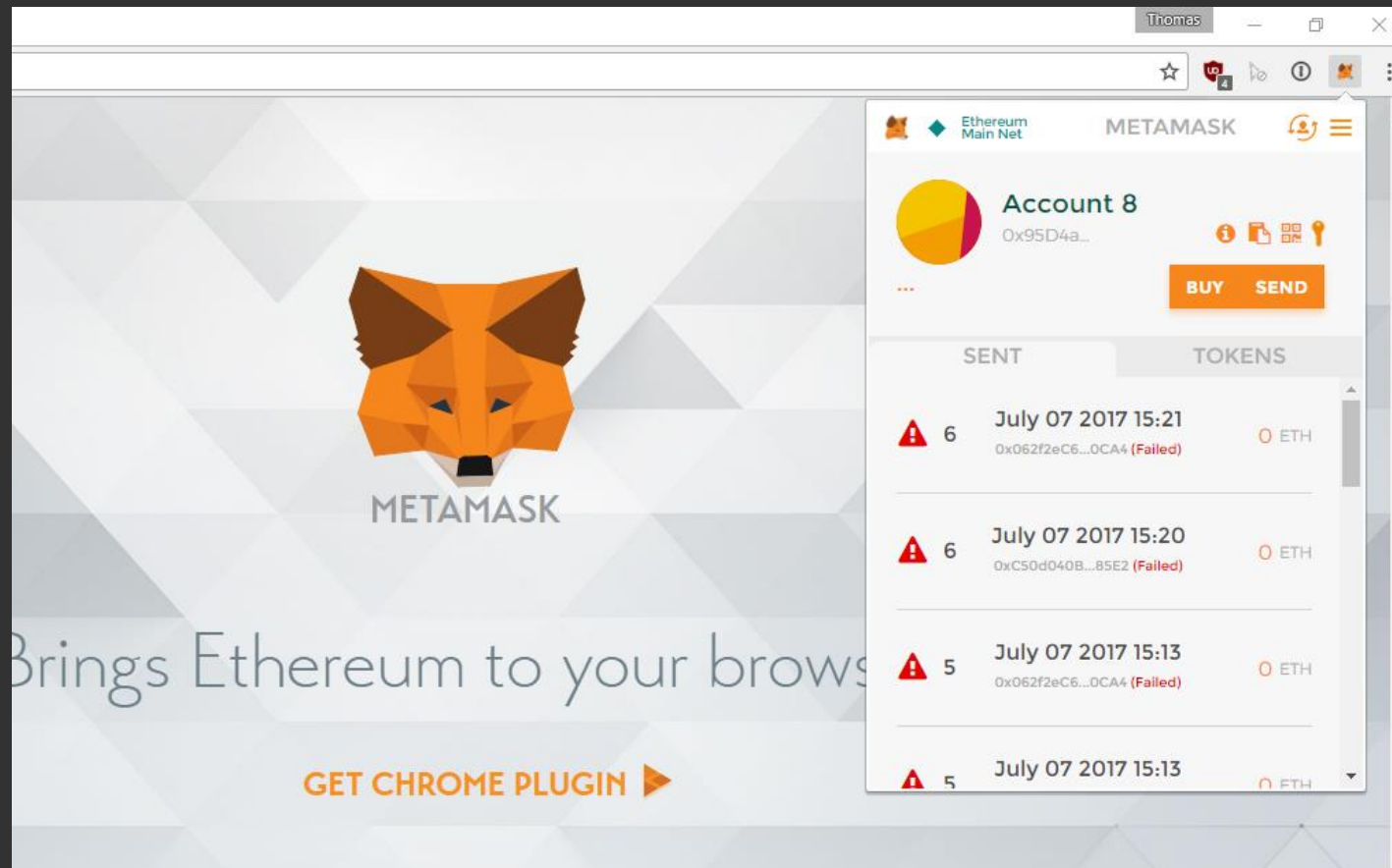
METAMASK



WHERE TO GET IT?

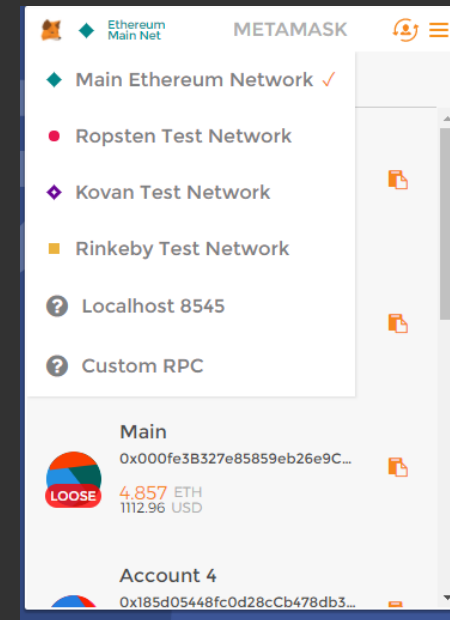
- Follow the instructions on [MetaMask.io](https://metamask.io)
- It's in beta
 - Google Chrome store
- „Firefox beta Version“
 - Like a „beta-beta“ version
 - For development better to have Firefox without MetaMask

METAMASK PLUGIN



METAMASK SUPPORTED NETWORKS

- Main Ethereum Network
- Ropsten Test Network
- Kovan Test Network
- Rinkeby Test Network
- Localhost 8545
- Custom RPC



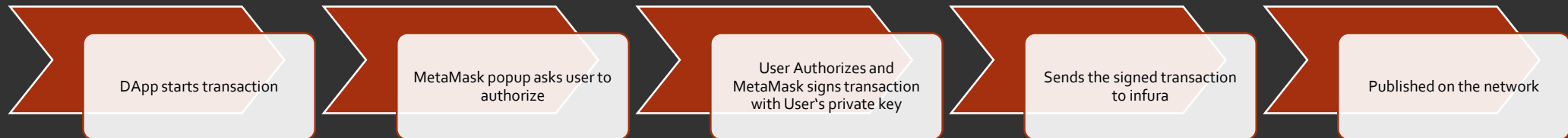
HOW THIS WORKS

- Difference: Call/Transaction
- Transaction Invoked through injected web3
 - `web3.eth.sendTransaction(...)`
 - Popup appears
 - User accepts transaction
 - MetaMask Plugin signs transaction
 - Sent through the network
- Call
 - Data is downloaded from the Network

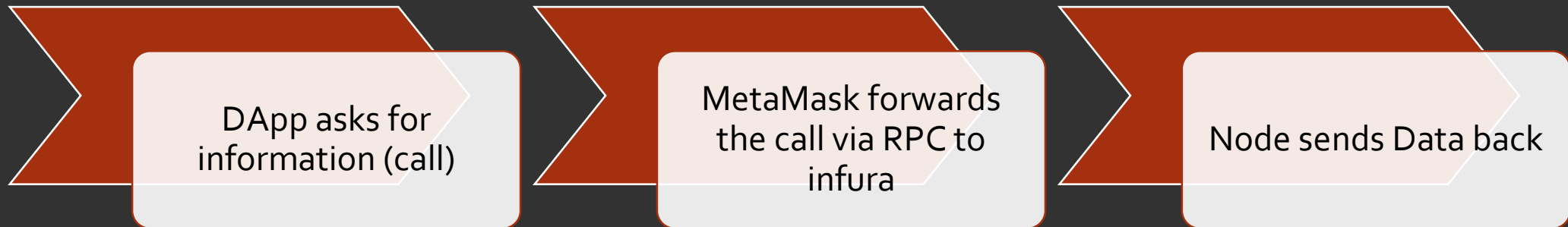
DATA SOURCE

- Data needs to come from somewhere
- RPC Interface of some kind
- Infura
 - Scalable Blockchain Infrastructure
 - 500 Million Requests per Day
- “HOSTED BLOCKCHAIN”
 - Like running your own geth node – just scalable

HOW TRANSACTIONS WORK VISUALLY



HOW CALLS WORK VISUALLY



IS IT „SECURE“?

- In short & theory: YES!
- Private keys are only stored on your browser
 - Don't lose the seed or password
- Information on the Blockchain is „public“
 - Nothing „private“ ever reaches the outside world
- Not totally decentralized
 - You have to trust infura

WHAT YOU LEARNED

- MetaMask is a browser plugin
 - Similar to MIST
- Makes access to the blockchain very easy
 - Through the „injected web3 object“
- Does no „real magic“ – it's not a light client
 - It connects to a blockchain provider
- But it's pretty cool

QUESTIONS/SUGGESTIONS?

- We are available in the Q&A!
- Feedback is always awesome to hear.
- Problems outside of the course?
 - Send us a message!