

# Ethereum Install Party!

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**Get the resources for this talk here:**

<https://github.com/robmyers/ethereum-install-party>

## What Is Ethereum?

- A distributed application platform
- A blockchain-based system (like Bitcoin)
- A trustless public ledger of state and agreements
- A store for arbitrary scripts and data
- An agoric computing system powered by “Ether”

## What Can We Use Ethereum for?

- Smart contracts
- Smart property, digital and physical
- Distributed Autonomous Organizations (DAOs)
- AltCoins, Crypto-Equity, anything Bitcoin or NXT can do
- Things we haven't thought of yet

## How Is Ethereum Implemented?

- c++ - cpp-ethereum, AlethZero
- go - go-ethereum, Ethereum
- python - pyEthereum
- java - ethereumj
- javascript - UI bindings, node.js

## How Does Ethereum Work?

- Addresses
- Contracts
- Storage
- Transactions
- Ether

## **OK, Let's Install Ethereum!**

Mac & Windows, grab the installer:

<https://github.com/ethereum/cpp-ethereum/releases>

GNU/Linux, look here:

<https://github.com/ethereum/cpp-ethereum/wiki>

## Let's Run AlethZero

- Start AlethZero
- Connect to peer
- Enable mining (transactions cost Ether!)



## Let's Try Some Contracts!

- GavCoin - <http://gavwood.com/gavcoin.html>
- PRODOUG -  
<https://androlo.github.io/andreasweb/DAO.html>

## How Do We Write Ethereum Contracts?

QML or Web-app-style

For Web-app-style:

- User Interface (View): HTML
- Communication (Controller): JavaScript
- Data Manipulation and storage (Model): Ill/Serpent/Mutan

## More Information

- <https://www.ethereum.org/>
- <https://github.com/ethereum/wiki/wiki/%5BEnglish%5D-White-Paper>
- <http://www.slideshare.net/ethereum/the-ethereum-experience>
- <https://www.youtube.com/user/EtherCasts>
- <http://forum.ethereum.org/>