

ethereum vienna

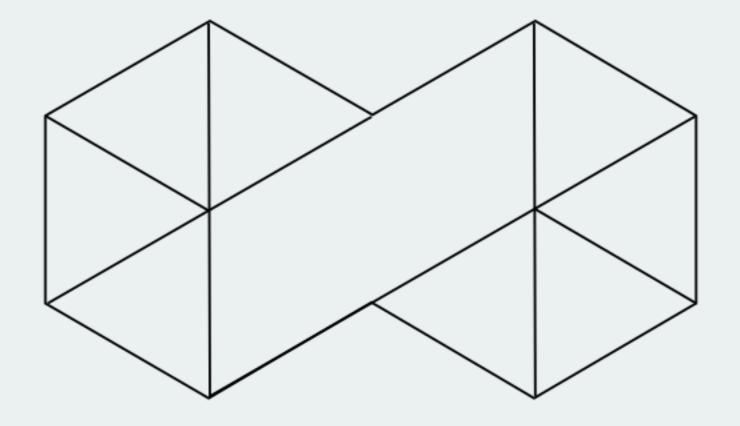
DEVCON-2 Recap



General Introduction

DEVCON-2 Recap

Socialising

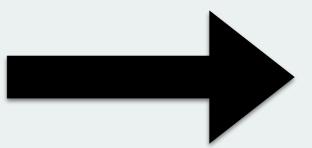


RIAT

RESEARCH INSTITUTE FOR ARTS AND TECHNOLOGY

ATM

Over there



and it still doesn't work

but there is hope (at least for the buying part)



ethereum vienna

DEVCON-2 Recap

International Blockchain Week

Ethereum Foundation + Wanxiang Blockchain Labs

September 19th	DEVCON - Day 1
September 20th	DEVCON - Day 2
September 21st	DEVCON - Day 3
September 22nd	DEMO Day
September 23rd	Blockchain Summit - Day 1
September 24th	Blockchain Summit - Day 2

Annual Ethereum Developer Conference

premier sponsor



platinum sponsors_



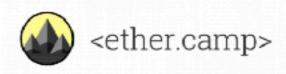


gold sponsors









community sponsors_





























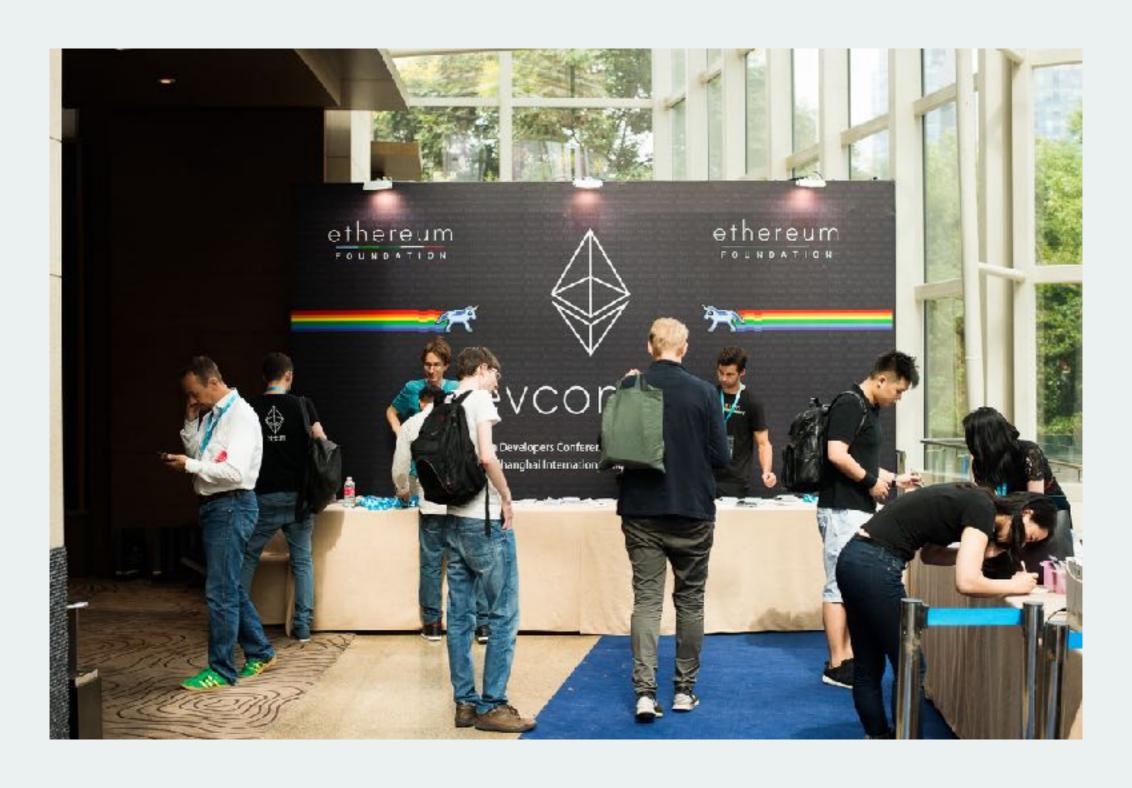






Hyatt at the Bund







Day 1

DDOS Attacks since the beginning of DEVCON Many geth releases in the last weeks

Parity mostly unaffected

"Fahrt nach Hause"





Lots of talks about smart contract security

Formal verification

Escape Hatches

Bug Bounties

Many talks about security on Day 2

swarm

presented SWAP, SWEAR

like most talks, way too short

didn't even get to SMASH / CRASH

raiden

payment channel network

working prototype

will be available "soon"

truebit

secure offchain computations

security deposit

slashed if fraud is detected

uses merkle proofs for efficient fraud proof

Parity client will ship it's own UI soon

Will support ERC-20 tokens

Parity also mostly unaffected by DDOS Attacks

=> move to parity

State channels

overview of how they work

offchain computation

generalisation of micropayment channels

raiden-like network

Recommended Talk!

eWASM

effort to move ethereum from EVM to WebAssembly could vastly improve performance

EVM2WASM transpiler

Passes all EVM tests

Casper

2 different versions of casper are looked into

Vitalik Casper

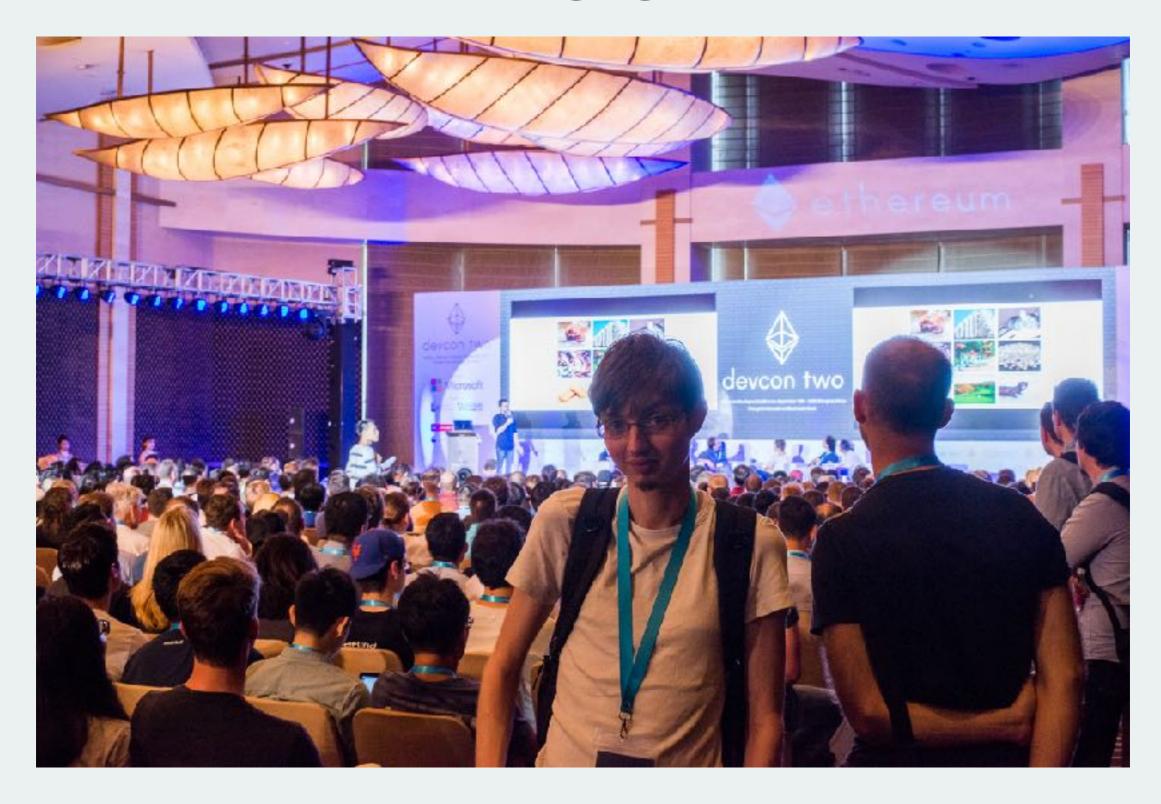
Vlad Casper

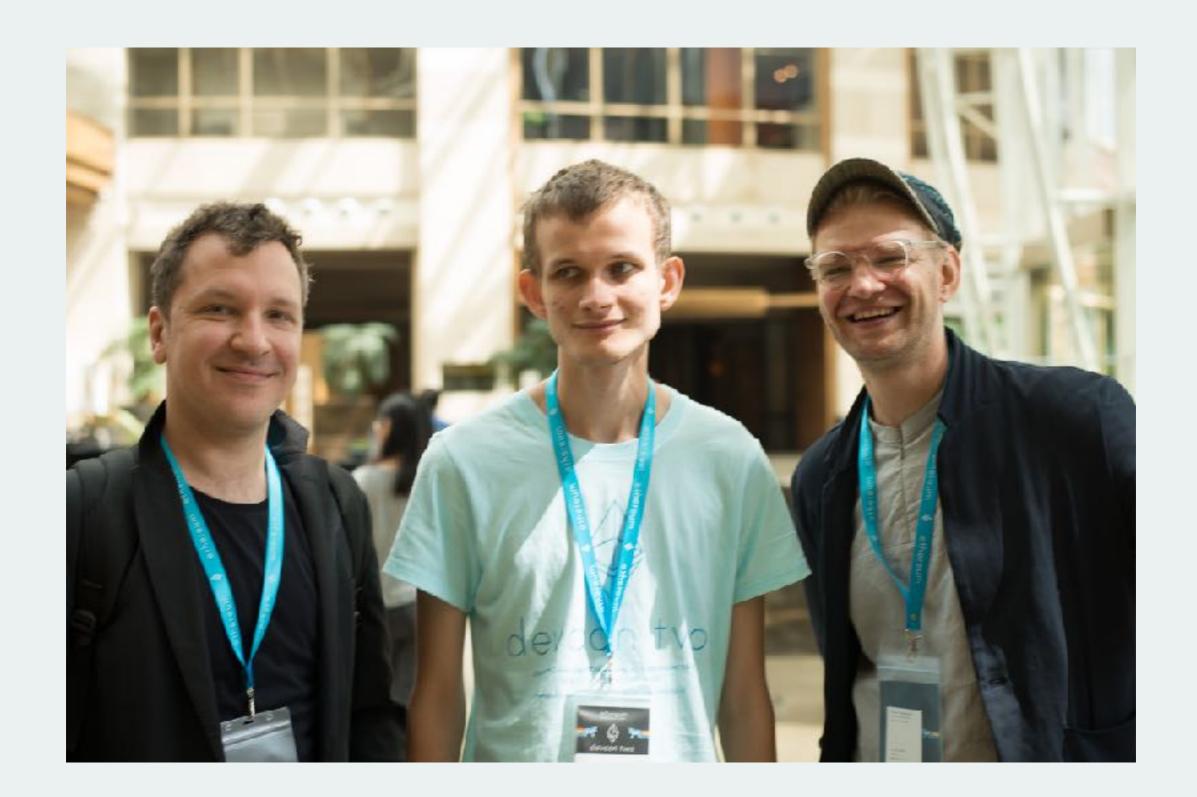
Mauve

New version of Mauve paper by Vitalik

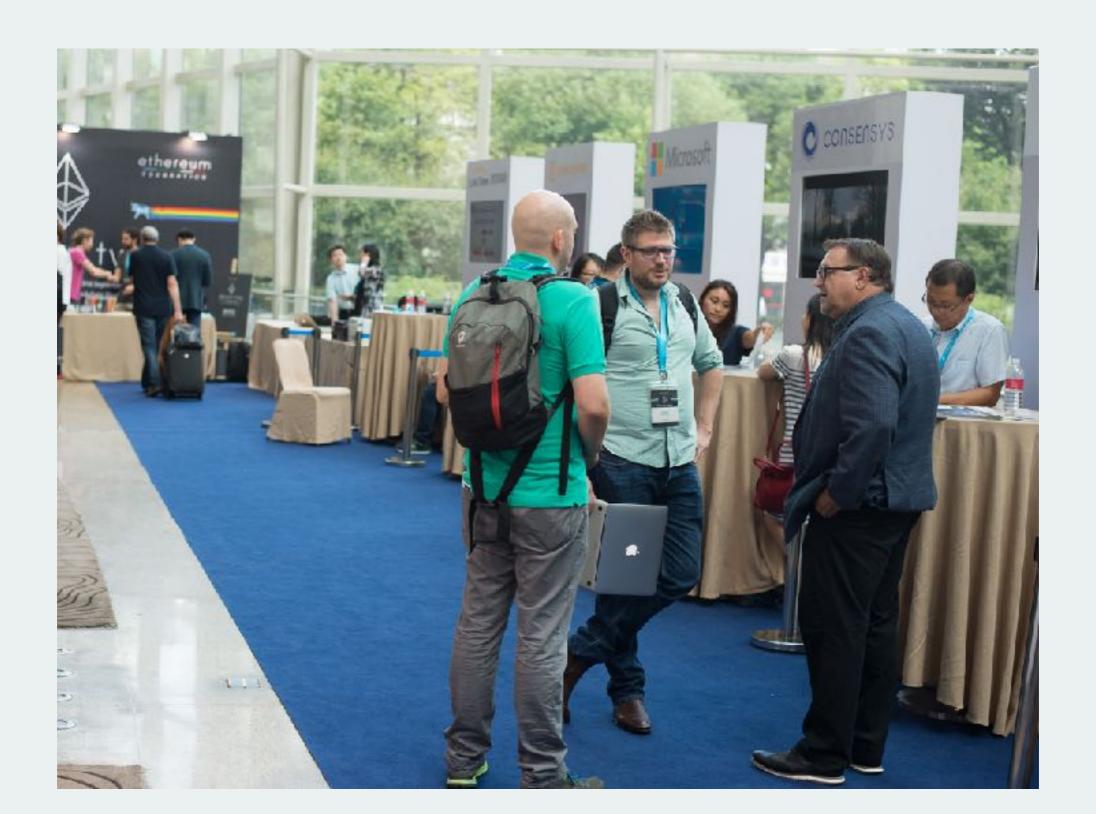
Now with pictures!

```
Zcash
Launches Oct 28th
  Project Alchemy
    verify Zcash POW in soldity
    ZRelay
      trustless swap of ETH and Zcash
  Baby Zoe
    Zcash as ethereum contract (needs precompile)
```





Day 2



```
Many talks on security
  solgraph
     visualizes soldity control flow
     highlights potential vulnerabilities
  talks about security best practices
  formal verification
     why3
     microsoft research paper: solidity -> F*
     imandra
```

ether.camp

Ethereum Studio now easily deployable on Azure

Ether Camp Hackathon in November

5 Weeks

1st place = 50k

http://hack.ether.camp

Hacker Gold - Virtual Accelerator

Banco Santander announced CashEth

Banco Santander backed stable token

Linked to bank account

Easy conversion between fiat and stable token

Metamask

Turns browser into Mist

Will work with major desktop browsers (except safari)

Works with chrome already

Ready for Opera, Firefox and Edge

Mascara: JS library

turns browser without metamask into ethereum browser

Light client

Geth as a library

Future of Solidity

ENS: Ethereum Name System

Major releases of every dev framework

Dapple

Truffle

embark

Old version were bad

Maybe the new ones are better

Oyente

Analyser for smart contracts

Symbolic execution

Can detect popular bugs

Can generate tests

is now open source on ethereum github

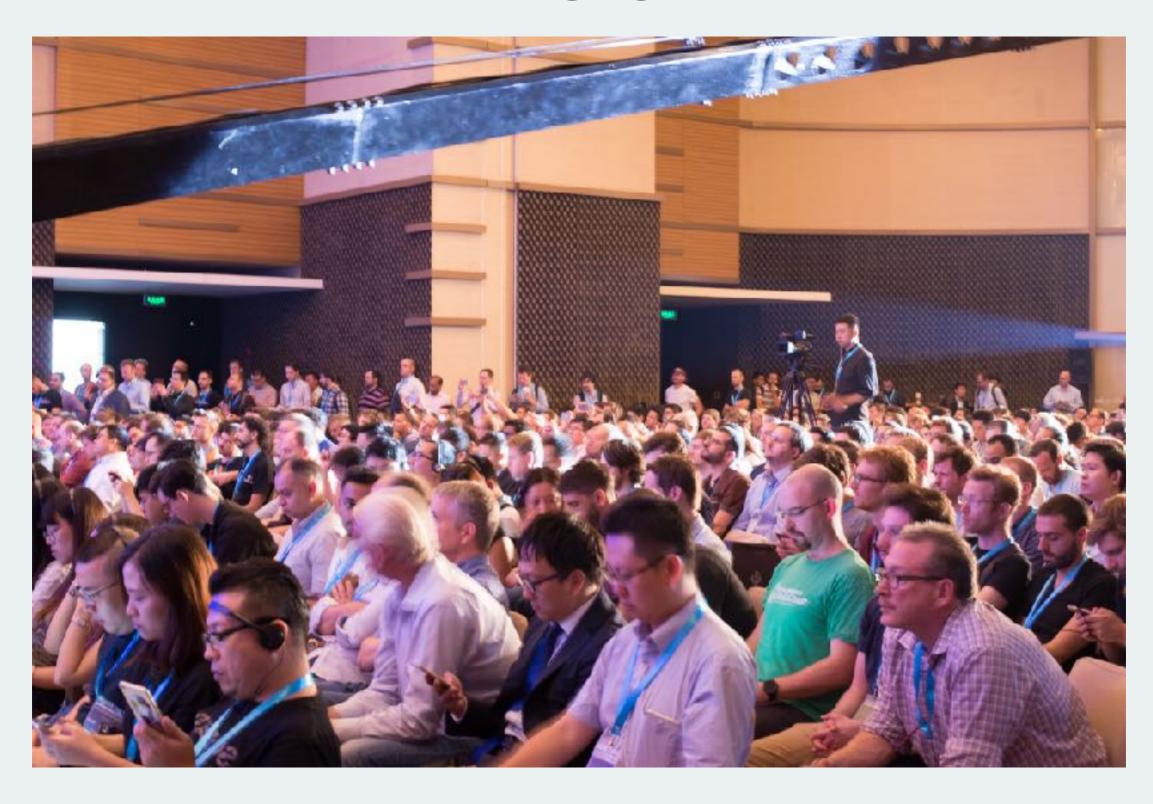
Remix

Ethereum Debugger as an NPM module can be easily integrated into other tools still at an early stage

Mango

decentralised github ethereum + swarm / IPFS

Day 3



Microsoft

Bletchley 1.0

Easily spinning up consortium ethereum networks

5-8 minutes

8 question

with 100s of nodes

Microsoft

Cryptlets

Offchain computation in enclaves

"Cryptlets are off-chain code modules that are written in any language that can execute within a secure, isolated, trusted container and is communicated with over secure channels.

Cryptlets can be used in SmartContracts and UTXO systems when additional functionality or information is needed, upgrading the blockchain "oracle" approach with a Cryptlet and CryptoDelegate or adaptor."

https://github.com/Azure/azure-blockchain-projects/blob/master/bletchley/CryptletsDeepDive.md

web3.js is undergoing major redesign

Promises by default

EventEmitters (.on) instead of callbacks everywhere

Many weird bugs in current web3.js (!)

Otonomos

Helps companies to incorporate on the blockchain

Takes care of filing and paperwork

Also provides blockchain based voting p2p share transfer

IPFS

available as go-ipfs and js-ipfs

=> ipfs in the browser

Filecoin will be built on top of ETH

Maker

One of the older stablecoin projects

Simplecoin

Platform for centrally administered stablecoins

Issuers create own ruleset

collateral, participants, security ...

Orbit

Decentralised chat room

Ethereum

IPFS

Integrates with uport for Identity

React Dapp Architecture

framework from Nick

now on github

still in development

Demo Day

17 projects built on top of ethereum

Many identity systems

Many rely on centralised points

1st price: uPort identity system

Further winners: WeiFund, Cosmos

uPort

Identity system for ethereum

Consensys Project

Key management

Separates private key from Identity

=> multiple keys for one Identity

uPort

Social Recovery

Select a group of friends

Together they can add a new key to your identity

Private key on mobile

transaction on desktop

sign by scanning qr code

Weifund

decentralised crowdfunding

Consensys Project

already covered it at the last event

Cosmos

A network of blockchains

Uses tendermint

Can allow blockchains to communicate

ujo	"Fair DRM" for music
bestowit.global	Wills on the blockchain
decentralized capital	Stable Coin
digix	Gold Token
devita	Incentivised Q&A Platform

Day 1

Wanxiang going to build a smart city in 10 years

30 billion dollars (USD)

Everything connected

IoT, Smart Living, Smart Transport

Many use cases for blockchain

Partnering with

Microsoft, IBM,

Consensys, Ethereum Foundation

WeBank, AliCloud

Minsheng Life Insurance

- + Blockapps
- + Consensys

employee appreciation and loyalty program

BHP

uses Ethereum to track geological samples

working with Consensys + BlockApps

Runs on Ethereum, IPFS and Azure

see David Burela Recap for Details

Cotricity

Consensys project

energy market on the blockchain

Day 2

Chronicaled

Connects physical goods to blockchain

Microchips with private key

Authenticity and Provenance

Augur

Prediction Market

Covered before

REP token live since yesterday!

ZCash

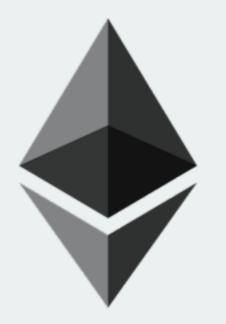
Factom

OpenBazaar

Everledger

Stellar

A detailed recap can be found at davidburela.wordpress.com



ethereum vienna

Updates

Ongoing DDOS Attacks

New DDos Attacks are still ongoing

Mostly against geth nodes

parity nodes not affected as much

Many geth releases came out recently

=> make sure to be on the latest version

Ongoing DDOS Attacks

Attacks seem to be targeting specific events:

DEVCON-2

FirstBlood Crowdsale

REP token launch

Future Workshops

New event for Beginner Workshop on meetup soon

Advanced Workshop (Contracts)

Date Finding coming soon

Probably in November

Waiting for React DApp Framework to mature

github.com/ahirner/ethereum