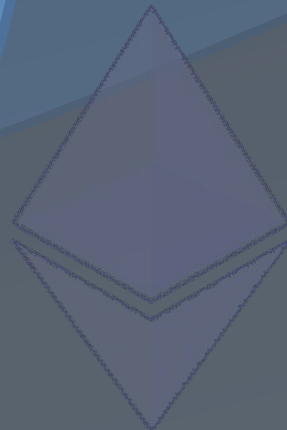
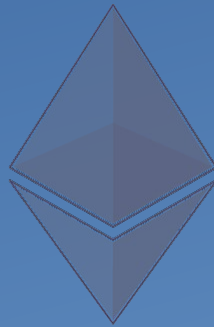


6th Ethereum Meetup



Daily Builds

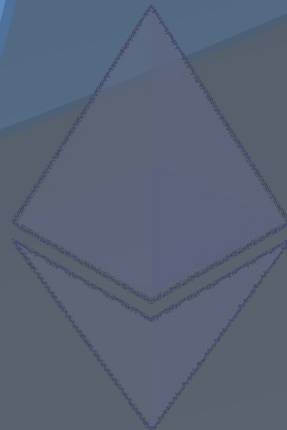
- <http://build.ethdev.com/builds/>

Directory listing for /builds/

Name	Size	Type
<u>Linux C++ develop deb amd64-trusty/</u>		[Directory]
<u>Linux C++ develop deb amd64-utopic/</u>		[Directory]
<u>Linux C++ develop deb i386-trusty/</u>		[Directory]
<u>Linux C++ develop deb i386-utopic/</u>		[Directory]
<u>Linux C++ master deb amd64-trusty/</u>		[Directory]
<u>Linux C++ master deb amd64-utopic/</u>		[Directory]
<u>Linux C++ master deb i386-trusty/</u>		[Directory]
<u>Linux C++ master deb i386-utopic/</u>		[Directory]
<u>Linux Go master deb amd64-trusty/</u>		[Directory]
<u>Linux Go master deb amd64-utopic/</u>		[Directory]
<u>Linux Go master deb i386-trusty/</u>		[Directory]
<u>Linux Go master deb i386-utopic/</u>		[Directory]
<u>OSX C++ develop branch/</u>		[Directory]
<u>OSX C++ master branch/</u>		[Directory]
<u>OSX Go develop branch/</u>		[Directory]
<u>OSX Go master branch/</u>		[Directory]
<u>Windows C++ develop branch/</u>		[Directory]
<u>Windows C++ master branch/</u>		[Directory]
<u>cpp-ethereum-develop-win/</u>		[Directory]
<u>cpp-ethereum-master-win/</u>		[Directory]
<u>cpp-ethereum-osx/</u>		[Directory]
<u>libcryptopp amd64-trusty/</u>		[Directory]
<u>libcryptopp amd64-utopic/</u>		[Directory]
<u>libjson-rpc-cpp amd64-trusty/</u>		[Directory]
<u>libjson-rpc-cpp amd64-utopic/</u>		[Directory]

DEVcon 0

- Internal conference for developers
- Talks will be uploaded in the coming weeks



Mix (IDE)

The screenshot displays the Mix IDE interface, which is used for developing and testing smart contracts. The interface is divided into several sections:

- Left Panel:** Contains a file explorer for the 'Crowdfunding Project' and a 'Team Activity' section with a list of recent comments and messages.
- Top Panel:** Shows the current working file, 'Bugfixes', and a dropdown menu for 'Issue #44 User not receiving...'. Below this, a code editor displays Solidity code for a crowdfunding contract.
- Right Panel:** Features a web browser preview of the '/index.html' file, which displays a crowdfunding page for 'Help me save these kittens!'. The page includes a progress bar for donations, a goal of 415 ETH, and a 'DONATE NOW' button.

The code editor shows the following Solidity code:

```
contract Crowdfunding {
    struct Funder {
        address addr;
        uint amount;
    }
    struct Campaign {
        address beneficiary;
        uint fundingGoal;
        uint numFunders;
        uint amount;
    }
    mapping (uint => Funder) funders;
    uint numCampaigns;
    mapping (uint => Campaign) campaigns;
    function newCampaign(address beneficiary, uint goal) returns (uint campaignID) {
        campaignID = numCampaigns++; // campaignID is return variable
        Campaign c = campaigns[campaignID]; // assigns reference
        c.beneficiary = beneficiary;
        c.fundingGoal = goal;
    }
    function contribute(uint campaignID) {
        Campaign c = campaigns[campaignID];
        Funder f = c.funders[c.numFunders++];
        f.addr = msg.sender;
        f.amount = msg.value;
        c.amount += f.amount;
    }
    function checkGoalReached(uint campaignID) returns (bool reached) {
        Campaign c = campaigns[campaignID];
        if (c.amount == c.fundingGoal)
            return false;
        c.beneficiary.send(c.amount);
        c.amount = 0;
        return true;
    }
}
```

A red error message is visible in the code editor: 'numFunders is not a number. It used to be an integer, but it became a NaN in line 9'.

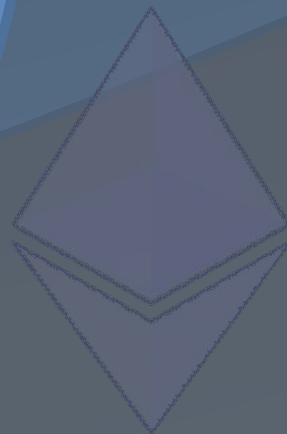
The web browser preview shows a crowdfunding page with the following details:

- GOAL:** 415 ETH
- DONATION LEVELS:** 322.751 ETH
- ABOUT THE AUTHOR:** Two images of kittens.
- Help me save these kittens!**
- DONATIONS SO FAR:** 322.751
- GOAL 415**
- DAYS LEFT 10**
- Amount given:** ETH 100.00
- DONATE NOW** button
- The story so far...**

The story text reads: 'So I was walking around on the street near my school when I heard a noise coming from the trash. When I went to investigate I found those two, starving kittens! Now I would love to be able to afford keeping them but as a student with no job, the vet bills are accumulating. I need now to secure and neuter them both, and I have to pay six months of kitten food, and a new safe'.

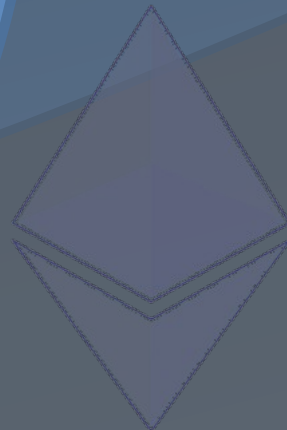
ethereum.js

- Big advancements in the js-api
 - web3.eth: allows local execution of contract functions
 - web3.shh: access to whisper
 - web3.db: local storage
- Contract ABI parsed from json
 - Contracts as js Objects
 - Contract functions as js functions
 - Automatic marshalling



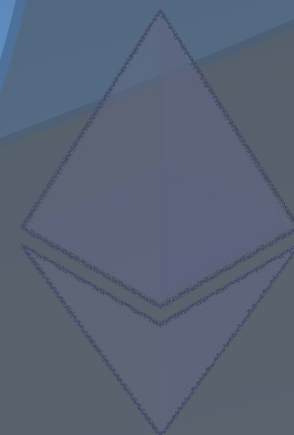
Serpent2

- New major version of serpent
- Native function support
 - Uses contract abi
 - Json not yet autogenerated
- Static data structures
- Still not in sync with alethzero



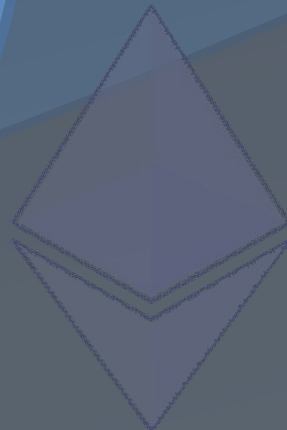
Solidity

- Merged into alethzero
- Simple contracts work
- Not really usable yet
- Uses contract abi



Competitors

- AT
- Counterparty
 - Forked evm implementation
 - Runs on the bitcoin blockchain
 - Gains bitcoins security
 - But also bitcoins blocktime
 - Still a separate token system
 - SPV Clients problematic



github.com/dafcok/ethereum

