

ICO

Initial Coin Offering on the Ethereum Blockchain

WHAT IS THAT?

- A Smart Contract
- A set number of tokens (coins)
 - For example 1m
- A date where they can be bought
 - Fixed price
 - Auction
 - Dutch Auction
 - ...

SMART CONTRACT

- Has a few functions
 - „Interfaces“
- Standard Pattern
 - ERC20
 - <https://github.com/ethereum/EIPs/issues/20>
 - EIP: Ethereum Improvement Proposals
 - ERC: Ethereum Request for Comments
 - Standardized set of functions
 - Other Contracts can interact with

ERC20 TOKEN INTERFACES

```
1 // https://github.com/ethereum/EIPs/issues/20
2 contract ERC20 {
3     function totalSupply() constant returns (uint totalSupply);
4     function balanceOf(address _owner) constant returns (uint balance);
5     function transfer(address _to, uint _value) returns (bool success);
6     function transferFrom(address _from, address _to, uint _value) returns (bool success);
7     function approve(address _spender, uint _value) returns (bool success);
8     function allowance(address _owner, address _spender) constant returns (uint remaining);
9     event Transfer(address indexed _from, address indexed _to, uint _value);
10    event Approval(address indexed _owner, address indexed _spender, uint _value);
11 }
```

- https://theethereum.wiki/w/index.php/ERC20_Token_Standard

ERC20 TOKEN VARIABLES

```
1    string public constant name = "Token Name";  
2    string public constant symbol = "SYM";  
3    uint8 public constant decimals = 18;  
4    // 18 is the most common number of decimal places
```

PROPERTIES WE USE

- A token has a name, symbol and decimals
- We use the “FixedSupplyToken”
 - https://theethereum.wiki/w/index.php/ERC20_Token_Standard
 - Has a fixed amount of tokens
 - And can transfer tokens between addresses

LAUNCH THE ICO

- Theoretically: Publish the Smart Contract
- Reality:
 - Right Idea
 - Regulation&Law
 - Marketing
 - PR Events
 - Whitepaper
 - Community
- Then publish the smart contract

WHAT YOU LEARNED

- There is a standard pattern for tokens
- It's called ERC20
- It is a set of functions used as interface
 - Great for other Dapps to interact
 - Or Wallets to receive/send tokens
- An ICO is nothing else than deploying the smart contract

THANKS!

- Questions/Suggestions?
 - Head over to the Q&A
- Feedback?
 - Yes, please!
- Not satisfied?
 - Shoot us a message...