

Smart Contract 101

Zhun Shen at CyberMiles

Smart Contract - Origin

“I call these new contracts “smart”, because they are far more functional than their inanimate paper-based ancestors. No use of artificial intelligence is implied. A smart contract is a set of promises, specified in digital form, including protocols within which the parties perform on these promises”

– Nick Szabo, 1996

Smart Contract - Current

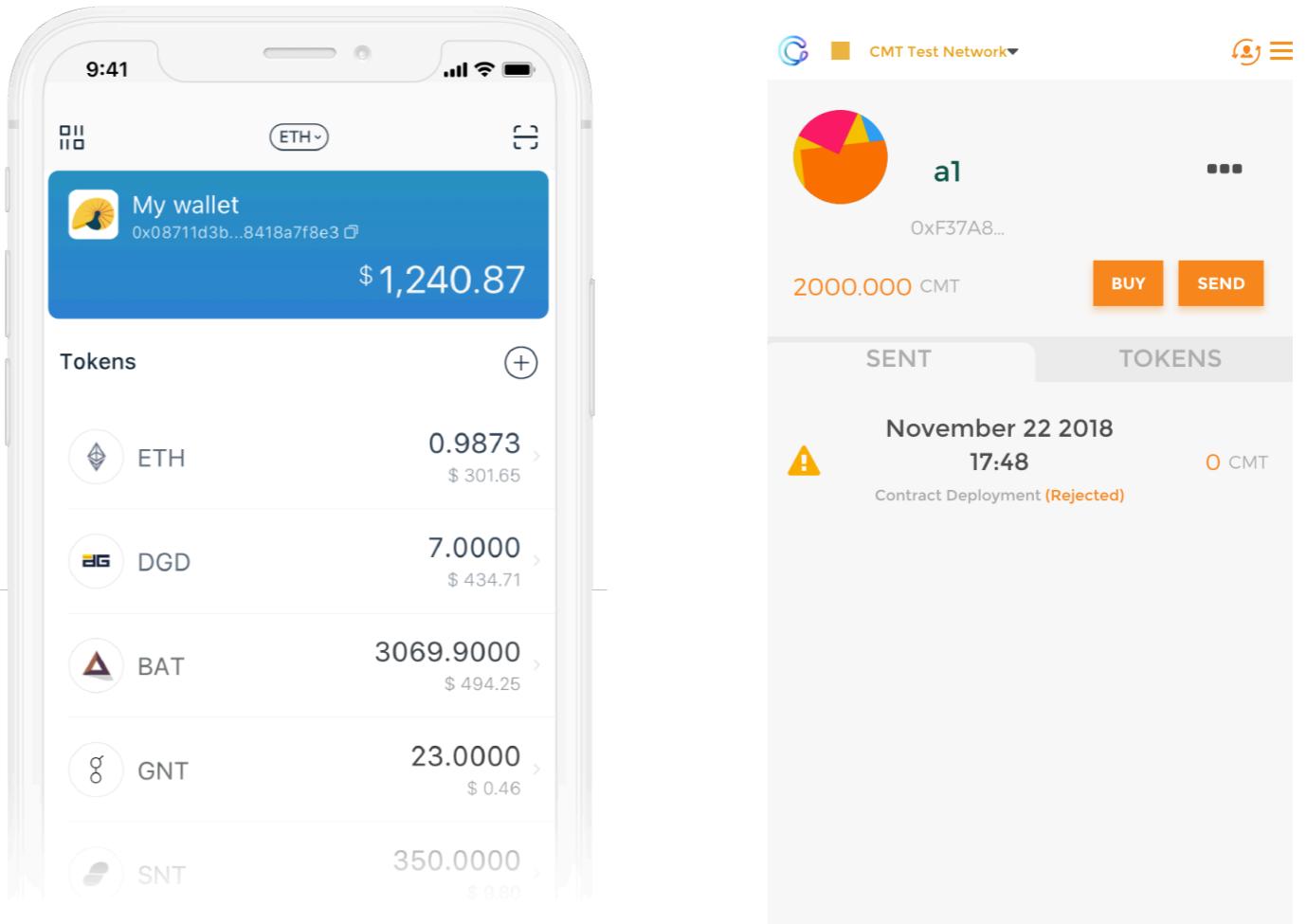
Smart contracts are programs that are executed inside a peer-to-peer network where nobody has special authority over the execution and thus they allow to implement tokens of value, ownership, voting and other kinds of logics.

– VB



Wallet

- MetaMask
- imToken
- MyEtherWallet
- ...



Node

https://www.cmttracking.io/nodes

Name	Voting Power	Rank	Owner Address	Verified	State	Location	Total Stakes	Compensation
CyberMiles Vietnam	3735731	1	0x1b92c5bb...	Y	Validator	Sai Gon Vietnam	19,923,687.68	45.00%
SSSnodes	3381729	2	0x34c5f1c0...	Y	Validator	Shenzhen, China	26,022,666.79	30.00%
Kryptital Group	2631818	3	0x221507f2...	Y	Validator	Cayman Islands	24,090,081.20	40.00%
Noomi	1680848	4	0x70a52ff3...	Y	Validator	Malta	10,231,072.20	50.00%
ArcBlock	1672197	5	0x9a3482fd...	Y	Validator	USA	7,635,832.86	50.00%
Wancloud	1082081	6	0x3af427d0...	Y	Validator	Shanghai, China	8,491,050.26	40.00%
Hayek Capital	1052791	7	0x1724d4a8...	Y	Validator	Australia	5,428,900.53	50.00%
Lvl99	1045294	8	0xcd3090e8...	Y	Validator	Jakarta, Indonesia	4,408,663.45	55.00%
COBINHOOD	919690	9	0x89586183...	Y	Validator	Taipei, Taiwan	3,948,864.06	50.00%
Block Wonderland	675342	10	0x858578e8...	Y	Validator	Osaka, Japan	7,086,399.55	20.00%
TGL Capital	569203	11	0x1ac7d4f1...	Y	Validator	Beijing China	2,549,369.40	50.00%
Moon Fund	564632	12	0xeb65290b...	Y	Validator	San Francisco, USA	2,505,210.09	55.00%
Huobipool	564470	13	0xf9fd3974...	Y	Validator	Beijing, China	2,448,845.65	50.00%
Snow Eagle Group Limited	528471	14	0x0da518ec...	Y	Validator	Israel	2,414,271.48	50.00%
Hash Tower	493432	15	0xfd0e8e4c...	Y	Validator	Seoul, South Korea	2,229,469.74	50.00%
Hui Zhi Zai Xian	461090	16	0x654e1dfe...	Y	Validator	Beijing, China	2,222,884.61	50.00%
Portland Master Limited	438514	17	0x4cdaf011...	Y	Validator	Hong Kong	2,242,375.12	50.00%
LiMaGo	422553	18	0xf9a43166...	Y	Validator	Taipei Taiwan	2,225,266.03	50.00%
Seed Backup Validator	94471	19	0x04ba6cf9...	Y	Validator	HK	424,960.84	99.00%
Seed Backup Validator	92310	20	0xe2185094...	Y	Backup Validator	HK	465,524.90	99.00%

<https://www.cmttracking.io/>

Gas



To run an application on Ethereum
YOU NEED GAS

DApp

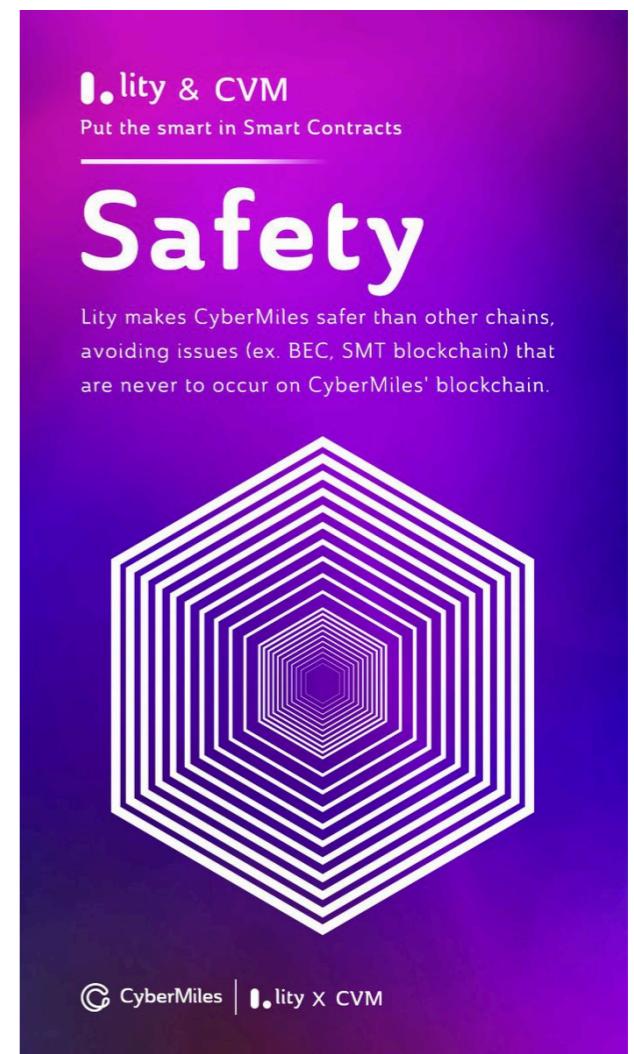


What is CryptoKitties?

CryptoKitties is a game centered around breedable, collectible, and oh-so-adorable creatures we call CryptoKitties! Each cat is one-of-a-kind and 100% owned by you; it cannot be replicated, taken away, or destroyed.

Language & Compiler

- Lity
- Solidity
- ...



<https://www.litylang.org/>

**Talk is cheap,
show me the code.**

Lord Yeung, PM @CyberMiles

Example 1

```
Hello, World_
```



remix

<http://remix.cybermiles.io>

Example 2

