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Real Smart Contract Development

Into to real development, IDEs and development tools (etherlime)

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IDEs and Development Tools

Installing IDEs and development tools

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IDEs

Atom, Webstorm, VSCode

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etherlime

Development library for init, compile, deploy, test and wrap smart contracts

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etherlime Init

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Etherlime project structure

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OpenZeppelin solidity

Library for writing secure Smart Contracts

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Development Nodes

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etherlime ganache

Generates 10 accounts with tons of ethers - very helpful when you make ICOs

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Testnets and Infura

Remote test nets - Ropsten, Rinkeby and etc. What kind if algorithm they use?

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Faucets

What is faucet and how to use it

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Etherscan

Etherscan as a block explorer tool

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Compilation

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Etherlime compile

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Compiled file structure

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Deployment

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etherlime ganache deployment

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Infura deployment

Etherscan explorer tool transactions

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My Ether Wallet (MEW)

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Further reading

- Etherlime Documentation - https://etherlime.readthedocs.io/en/latest/index.html
- OpenZeppelin-Solidity Documentation - https://github.com/OpenZeppelin/openzeppelin-solidity
- My Ether Wallet (MEW) - https://www.myetherwallet.com/
- Ropsten ETH Faucet - https://faucet.metamask.io
- Rinkeby ETH Faucet - https://faucet.rinkeby.io

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Homework

- Extend the Crypto Cars to work with Ownable.
- Compile and deploy the contract.
- Post your contract Etherscan link to your contracts and transactions in gitter.
- Buy car in your contract and your colleagues ones. Try to break theirs :D

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