**(OPTIONAL) Resources: Why Smart Contracts?**



**Week 1, Lesson 1 Resources: Why Smart Contracts?**

The following resources were selected to provide an overview of the topic of Why Smart Contracts? We would like to acknowledge the authors of the various web articles, videos, and papers for their insightful discussions and analytics which help formed the basis for some sections of the lessons and modules.

**Title of resource:** [**Smart Contract: Building blocks for digital markets**](http://www.fon.hum.uva.nl/rob/Courses/InformationInSpeech/CDROM/Literature/LOTwinterschool2006/szabo.best.vwh.net/smart_contracts_2.html)

Resource type: Paper

Description: This is a paper by Nick Szabo when he discussed the concept of smart contract. This paper is dated 1996, well before the advent of the cryptocurrency Bitcoin.

**Title of resource:** [**How to Learn Solidity: The Ultimate Ethereum Coding Guide**](https://blockgeeks.com/guides/solidity/)

Resource type: website

Description: This Guide will walk you step -by-step through learning Solidity.

**Title of resource:** [**Remix- Solidity IDE**](http://remix.readthedocs.io/en/latest/)

Resource type: website

Description: Remix is an IDE for the smart contract programming language Solidity and has an integrated debugger and testing environment.

**Week 1, Lesson 2 Resources: Smart Contracts Defined**

The following resources were selected to provide an overview of the topic of Smart Contracts Defined. We would like to acknowledge the authors of the various web articles, videos, and papers for their insightful discussions and analytics which help formed the basis for some sections of the lessons and modules.

**Title of resource:** [**Structure of a Contract**](http://solidity.readthedocs.io/en/develop/structure-of-a-contract.html)

Resource type: website

Description: Contracts in Solidity are similar to classes in object-oriented languages. Each contract can contain declarations of [State Variables](http://solidity.readthedocs.io/en/develop/structure-of-a-contract.html#structure-state-variables), [Functions](http://solidity.readthedocs.io/en/develop/structure-of-a-contract.html#structure-functions), [Function Modifiers](http://solidity.readthedocs.io/en/develop/structure-of-a-contract.html#structure-function-modifiers), [Events](http://solidity.readthedocs.io/en/develop/structure-of-a-contract.html#structure-events), [Struct Types](http://solidity.readthedocs.io/en/develop/structure-of-a-contract.html#structure-struct-types) and [Enum Types](http://solidity.readthedocs.io/en/develop/structure-of-a-contract.html#structure-enum-types). Furthermore, contracts can inherit from other contracts.

**Title of resource:** [**Camel Case**](https://en.wikipedia.org/wiki/Camel_case)

Resource type: website

Description: Camel case (stylized as camelCase or CamelCase; also known as camel caps or more formally as medial capitals) is the practice of writing compound words or phrases such that each word or abbreviation in the middle of the phrase begins with a capital letter, with no intervening spaces or punctuation.

**Title of resource:** [**Introduction to Smart Contracts**](http://solidity.readthedocs.io/en/develop/introduction-to-smart-contracts.html)

Resource type: website

Description: This website provides an introduction to smart contracts.

**Week 1, Lesson 3 Resources: Processing Smart Contracts**

The following resources were selected to provide an overview of the topic of Processing Smart Contracts. We would like to acknowledge the authors of the various web articles, videos, and papers for their insightful discussions and analytics which help formed the basis for some sections of the lessons and modules.

**Title of resource:** [**Account Types, Gas, and Transactions**](http://ethdocs.org/en/latest/contracts-and-transactions/account-types-gas-and-transactions.html)

Resource type: website

Description: This website details the two type of accounts in Ethereum.

**Week 1, Lesson 4 Resources: Deploying Smart Contracts**

The following resources were selected to provide an overview of the topic of Deploying Smart Contracts. We would like to acknowledge the authors of the various web articles, videos, and papers for their insightful discussions and analytics which help formed the basis for some sections of the lessons and modules.

**Title of resource:** [**Ethereum, Tokens, and Smart Contracts**](https://medium.com/@k3no/ethereum-tokens-smart-contracts-80f639f5c46b)

Resource type: website

Description: This article details Ethereum, tokens, and smart contracts.

**Title of resource:** [**Decoding the Enigma of Bitcoin Mining**](https://medium.com/all-things-ledger/decoding-the-enigma-of-bitcoin-mining-f8b2697bc4e2)

Resource type: website

Description: “Bitcoin miners” is somewhat a misleading term. The miners are actually “bookkeepers” and “validators” of the network. It is called as Mining because the algorithm somewhat approximates the declining supply of gold and the miner wins an award (which are the new bitcoins created) for their effort.

