

BitCoin



Table of content:

Blockchain Intuition

- Updates on Udemy Reviews
- What is a Blockchain
- Understanding SHA256 - Hash
- Immutable Ledger
- Distributed P2P Network
- How Mining Works: The Nonce
- How Mining Works: The Cryptographic Puzzle
- Byzantine Fault Tolerance
- Consensus Protocol: Defense Against Attackers
- Consensus Protocol: Proof-of-Work (PoW)
- Blockchain Demo

Cryptocurrency Intuition

- What is Bitcoin?
- Bitcoin's Monetary Policy
- Understanding Mining Difficulty
- Virtual tour of a Bitcoin Mine
- Mining Pools
- Nonce Range
- How Miners Pick Transactions
- CPU's vs GPU's vs ASIC's
- How do Mempools work?
- Orphaned Blocks
- The 51% Attack

Cryptocurrency Transactions Intuition

- Transactions and UTXO's
- Where do transaction fees come from?
- How wallets work
- Signatures: Private & Public Keys
- Signatures & Keys Demo
- What is Segregated Witness (SegWit)
- Public Key vs Bitcoin Address
- Hierarchically Deterministic (HD) Wallets

Smart Contract Intuition

- What is Ethereum
- What is a Smart Contract?
- Decentralized Applications (Dapps)
- Ethereum Virtual Machine & Gas
- Decentralized Autonomous Organizations (DAOs)
- The DAO Attack

- Soft and Hard Forks (Part 1)
- Initial Coin Offerings (ICOs)
- ICO Case Study
- Blockchain Startups: White Papers
- Blockchain and Web 3.0

Alt Coins

- Ripple
- Neo
- Litecoin
- Cardano
- Stellar

