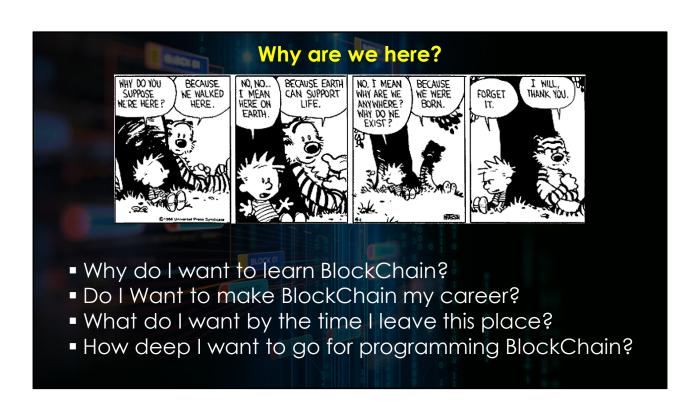


Welcome to the Journey of Deep Dive on BlockChain

- BlockChain understanding baseline and reviewing the basics
- Why BlockChain?
- Cryptography and its association with BlockChain
- Where is BlockChain being used today?
- What is on a BlockChain?
 - Distributed Ledger
 - What is a Block?
 - Nonce
 - Genesis Block
 - Provenance
 - Consensus (Proof of Work/Proof of Stake)
- Types of BlockChain
- When not to use BlockChain
- The future of BlockChain
- DEMO: Learning BlockChain by Building one



BlockChain recommended resources

- 1. BlockChain Business Overview TedTalk by Dan Tapscott on BlockChain.

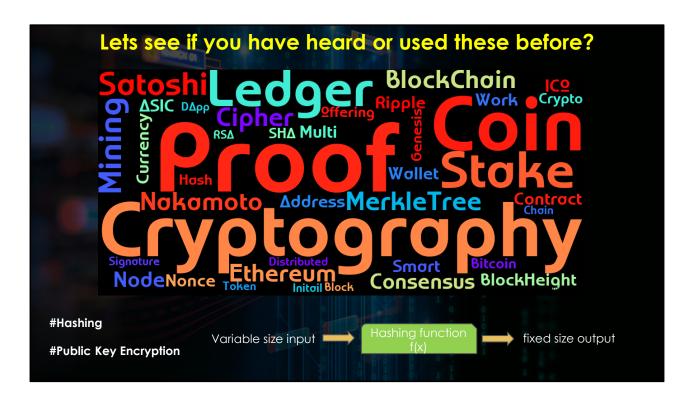
 https://www.ted.com/talks/don_tapscott how the blockchain is changing money an
- https://www.ted.com/talks/don tapscott how the blockchain is changing money and businessBlockChain
- 2. BlockChain Technology Foundation by Anders Brownworth , one of the most popular foundational understanding

https://www.youtube.com/watch?v= 160oMzblY8

3. This is a very lucid explanation that helps cover the basics from a user perspective and understand the high-level technology for BlockChain.

Build Basic BlockChain from Groundup using Python -

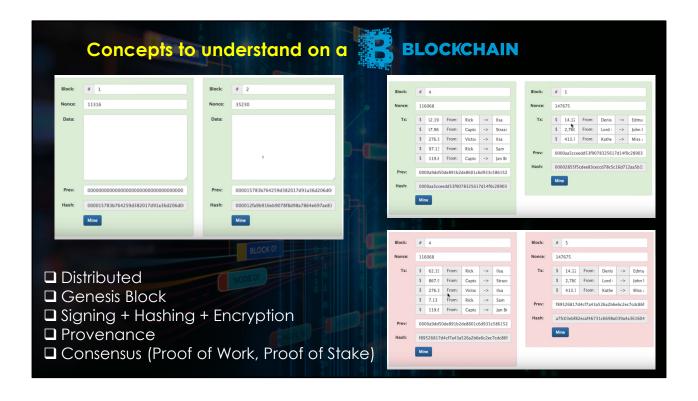
https://hackernoon.com/learn-blockchains-by-building-one-117428612f46



Wordc.net

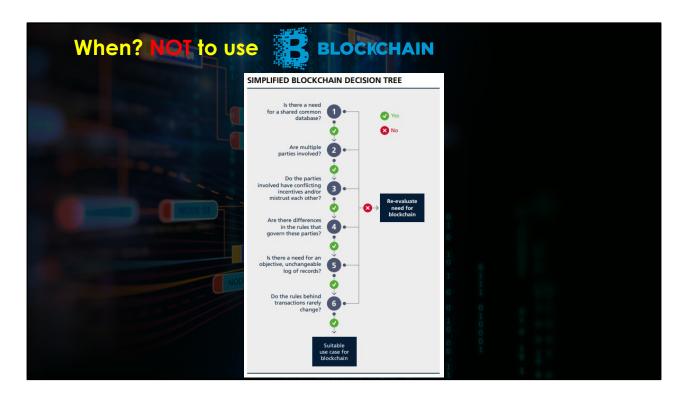


Bitcoin Block time - $^{\circ}$ 8 to 20 min https://bitinfocharts.com/comparison/bitcoin-confirmationtime.html#6m Ethereum Block time - $^{\circ}$ 15 seconds https://etherscan.io/chart/blocktime

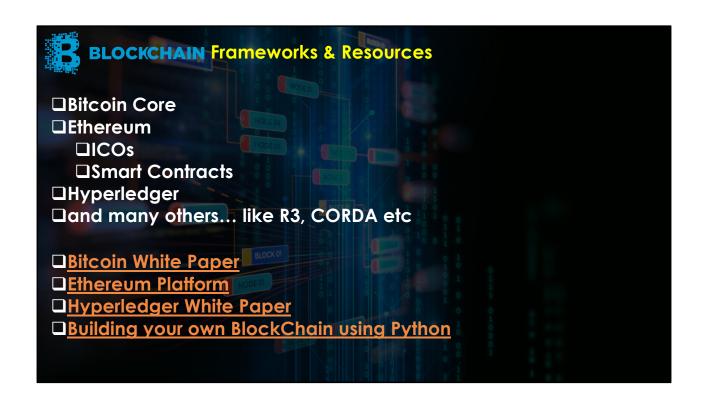


Different types of BLOCKCHAIN?
 Who has the ability to run the node? Level of importance on anonymity, immutability, efficiency, and transparency
□ Public □ anyone can be a user or run a node □ value anonymity, immutability, and transparency over efficiency □ Identity is safe □ Eg: Crypto currencies like Bitcoin □ Permissioned □ who can be a user to run a node is permissioned by an authority □ value immutability and efficiency over anonymity and transparency □ Eg: Industry bodies like Banks to settle international transactions □ Private □ operated by one entity □ value efficiency over anonymity, immutability and transparency □ Eg: Limited usecases , can be used with in an Organization





https://www.forbes.com/sites/groupthink/2017/11/28/to-blockchain-or-not-to-blockchain-its-a-valid-question/



Month#1(April '18) Exploring the basics Learn about BlockChain by building one Month#2(May '18) The Ethereum BlockChain Deploying your HelloWorld Contract Ethereum & Solidity Basics Month#3(June '18) Advanced Smart Contracts Building a Decentralized App Month#4(July '18) End to End testing of a BlockChain Application



