

CRYPTOGRAPHIC HASHING

By Justin Reyes

OUTLINE

Preface Project Overview 04 Quick summary of cryptocurrency My thoughts on hashing and how I use my project to understand it better **Blockchain Technology My Own Hashing Function** 02 Brief description of blockchain Shows and explains how my technology which leads to the main project works topic of hashes **Hashing In Blockchain Conclusion** 03 06 Explanation of how hashes are used End of the presentation in blockchain technology and why they are used



CRYPTOCURRENCY

A type of virtual currency that is secured by cryptographic technology



BLOCKCHAIN

A method of data storage that is distributed across a network of computers



SECURE

Individual encryption of blocks using a complex cryptographic hashing algorithm



CONCRETE RECORD

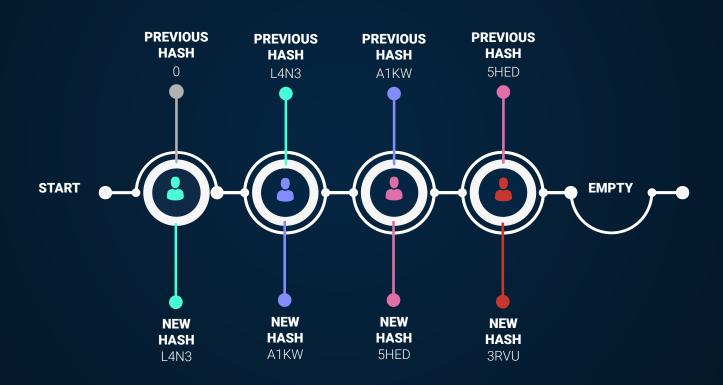
All previous transactions are public and can be reviewed

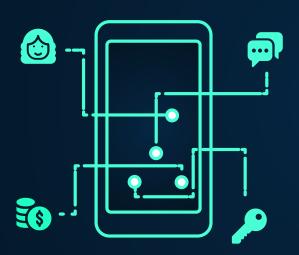


DECENTRALIZED

Everyone has a copy of the blockchain, and attacking one block requires attacking the succeeding blocks

HASHES IN THE CHAIN



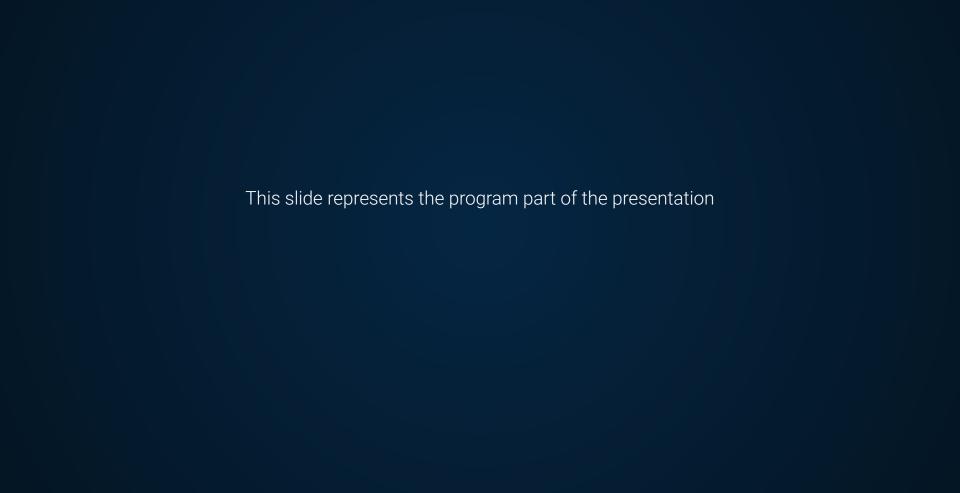


WHAT IS "IN" THE HASH

In a block, there is a collection of different types of data all fed through a cryptographic hashing function to obtain a line of binary bits

CHARACTERISTICS OF HASH FUNCTIONS





ANOTHER USE FOR HASHES

Password: 12345 → Hash: a9c173cacfc5

Actual Passwords

user1 = ???????

user2 = ???????

user3 = ???????

user4 = ???????

user5 = ???????

user6 = ???????

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Password Hashes

user1 = a9c173cacfc5

user2 = 169c0a33b0d4

user3 = fbde19ccd62b

user4 = ee9088f7ace2

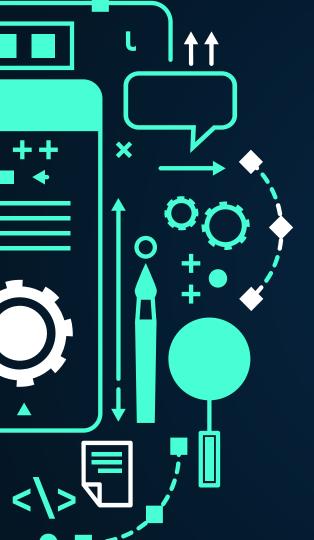
user5 = bac7f90d758b

user6 = 62c7a34ad153

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THANK YOU FOR WATCHING

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Github:

https://github.com/ShaggyBox/CS131_2021_WEST/blob/main/MyHashFunction.cpp