

Under The Guidance of Prof. V. G. Khetade

Group Members

NAME	PRN
Shreyash Tembhurne	19UCS130
Dhaiiryashil Shinde	19UCS122
Gourav Shinde	19UCS124
Pritesh Shetty	19UCS122

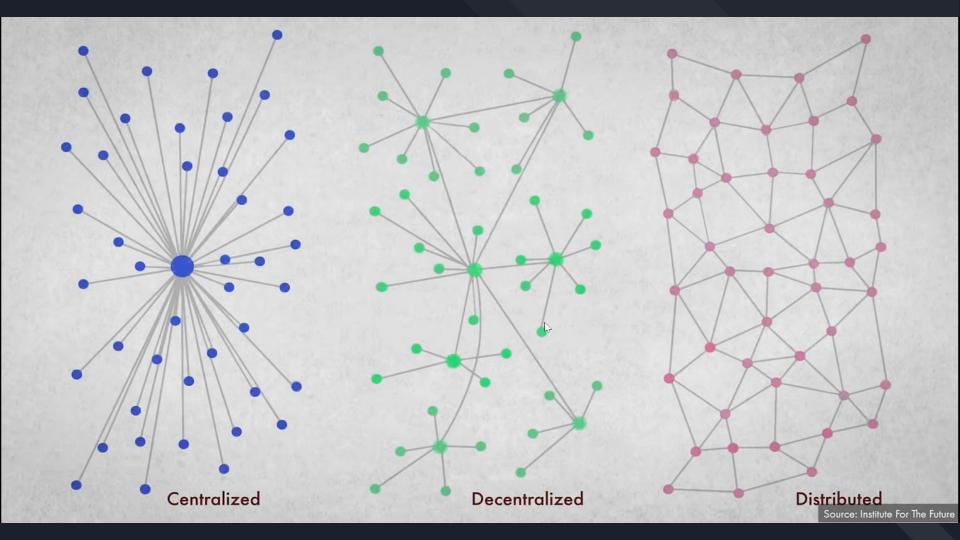
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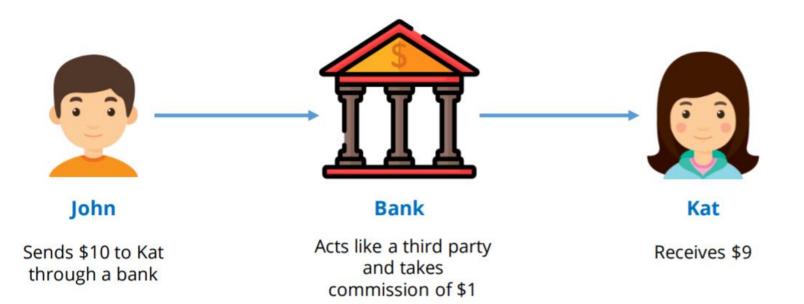


- Blockchain is a decentralized ledger of all transactions across peer-to-peer network.
- It is a technology that enables Bitcoin and is also applied to many business processes.
- It not only performs transactions but also ensures anonymity and security of the users.

Types of Systems...



Current Banking System



Issues in Banking System

There were few issues in the previous banking system that lead to the rise of Blockchain technology.



How Blockchain Works?

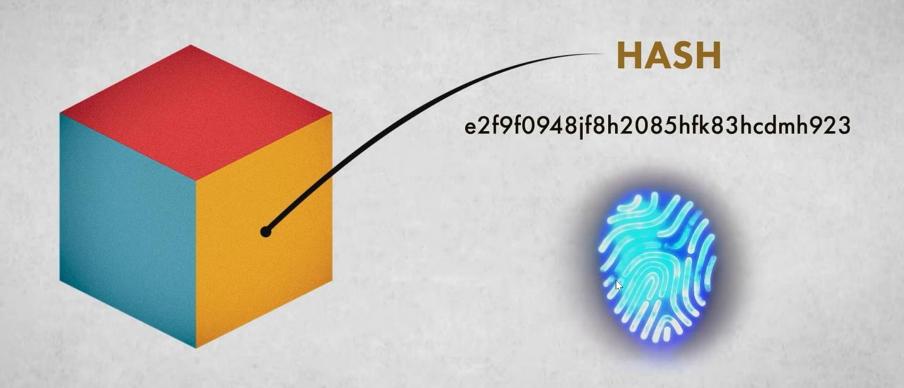
In the Blockchain, the information is Structured in the form of Blocks Each block is made up of 3 Main things

- 1. Data
- 2. Hash
- 3. Hash of the previous block

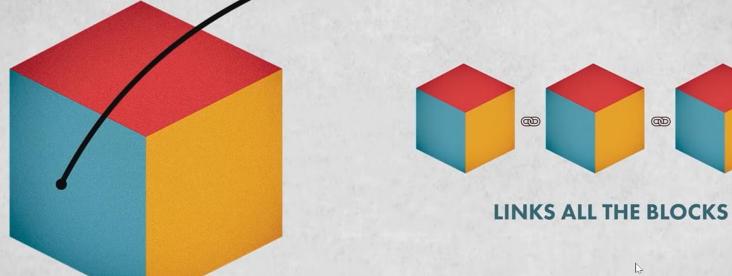
DATA

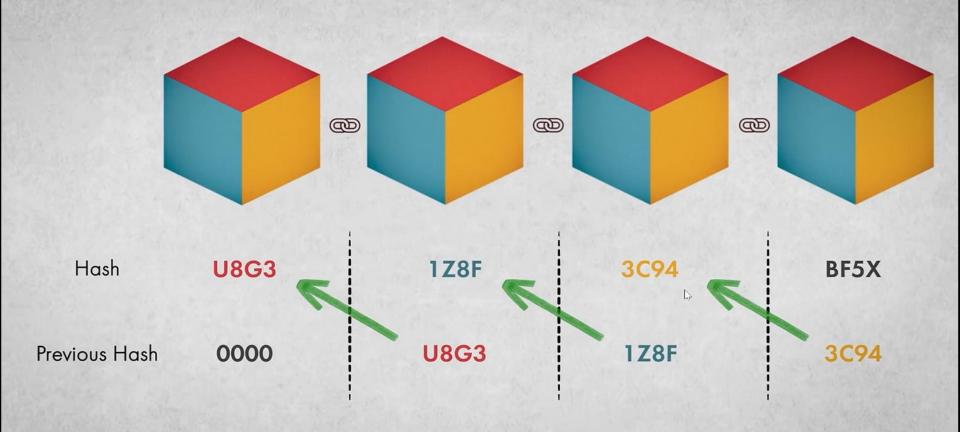


BITCOIN BLOCK EXAMPLE

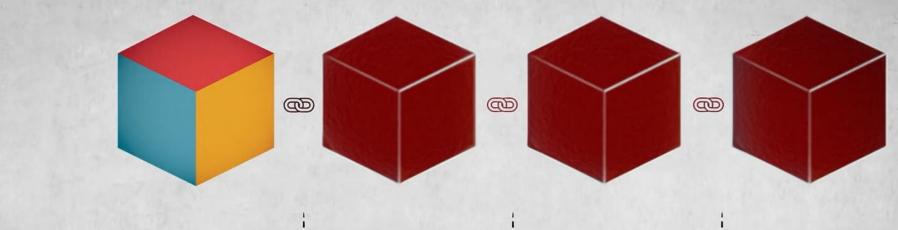


HASH OF THE PREVIOUS BLOCK





DATA TAMPERED



Hash U8G3

Previous Hash 0000

2K8F

U8G3

V9Ho

2y 7

78D8

| G3

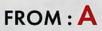
Whenever new data is added to the blockchain, It's the work of the miners to verify it

All miners verify it as well as record it

 A 51% Attack is an attack on a blockchain by a group of miners who control more than 50% of the network's mining hash rate







[f93jd0h2vb6lz]

TO : **B**

[2hv4kj6sh1bc7]

AMOUNT: Rs. 50









FROM: A

[f93jd0h2vb6lz]

TO : C

[dsa0ir20x921sk]

AMOUNT: Rs. 50







Blockchain Applications

- Secure sharing of medical data
- NFT marketplaces
- Music royalties tracking
- Cross-border payments
- Real-time IoT operating systems
- Personal identity security
- Anti-money laundering tracking system

- Supply chain and logistics monitoring
- Voting mechanism
- Advertising insights
- Original content creation
- Cryptocurrency exchange
- Real estate processing platform

Advantages of Blockchain

- Process Integrity
- Traceability
- Security
- Faster Processing

Disadvantages of Blockchain

- Power Use
- Cost
- Uncertain Regulatory Status

Conclusion of Blockchain Technology

- The Bitcoin is the first successful implementation of blockchain.
- Today, the world has found applications of blockchain technology in several industries, where the trust without the involvement of a centralized authority is desired.

The Future

While cryptocurrencies are the most well-known use of blockchain technology, their potential extends far beyond digital currencies. For example, blockchains could be used to secure every aspect of the supply chain, store property records, create a reliable digital identity system, and even store and count votes in an election. As investors continue to pour money into this technology it's only a matter of time before it fundamentally reshapes our world.

Use Cases



■ QUARTZ AFRICA

0

TRANSPARENT

The world's first blockchainsupported elections just happened in Sierra Leone



Powered by blockchain.

FROM OUR OBSESSION

Africa Innovators

>

This is an exploration of African solutions to global problems.



By Yomi Kazeem

March 13, 2018 . This article is more than 2 years old.

Corrected: This story was updated to clarify the extent to which blockchain was used in the election.

References

• https://101blockchains.com/blockchain-fundamentals-presentation/

https://www.investopedia.com/terms/b/blockchain.asp

https://www.euromoney.com/learning/blockchain-explained/what-is-blockchain

Any Question?

Thank You!