



Blockchain Snippets





HISTORY OF BLOCKCHAIN





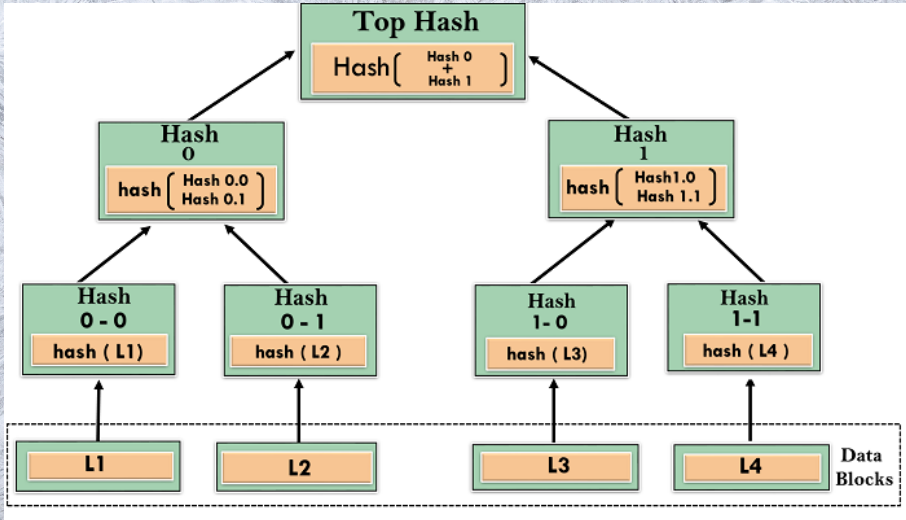
- **THE BLOCKCHAIN TECHNOLOGY WAS DESCRIBED IN 1991 BY THE RESEARCH SCIENTIST STUART HABER AND W. SCOTT STORNETTA.**
- **THEY WANTED TO INTRODUCE A COMPUTATIONALLY PRACTICAL SOLUTION FOR TIME-STAMPING DIGITAL DOCUMENTS SO THAT THEY COULD NOT BE BACKDATED OR TAMPERED.**
- **THEY DEVELOP A SYSTEM USING THE CONCEPT OF CRYPTOGRAPHICALLY SECURED CHAIN OF BLOCKS TO STORE THE TIME-STAMPED DOCUMENTS.**





- **IN 1992, MERKLE TREES WERE INCORPORATED INTO THE DESIGN, WHICH MAKES BLOCKCHAIN MORE EFFICIENT BY ALLOWING SEVERAL DOCUMENTS TO BE COLLECTED INTO ONE BLOCK.**
- **MERKLE TREES ARE USED TO CREATE A 'SECURED CHAIN OF BLOCKS.' IT STORED A SERIES OF DATA RECORDS, AND EACH DATA RECORDS CONNECTED TO THE ONE BEFORE IT.**
- **THE NEWEST RECORD IN THIS CHAIN CONTAINS THE HISTORY OF THE ENTIRE CHAIN. HOWEVER, THIS TECHNOLOGY WENT UNUSED, AND THE PATENT LAPSED IN 2004.**







- **IN 2004, COMPUTER SCIENTIST AND CRYPTOGRAPHIC ACTIVIST HAL FINNEY INTRODUCED A SYSTEM CALLED REUSABLE PROOF OF WORK(RPOW) AS A PROTOTYPE FOR DIGITAL CASH.**
- **IT WAS A SIGNIFICANT EARLY STEP IN THE HISTORY OF CRYPTOCURRENCIES. THE RPOW SYSTEM WORKED BY RECEIVING A NON-EXCHANGEABLE OR A NON-FUNGIBLE HASHCASH BASED PROOF OF WORK TOKEN IN RETURN, CREATED AN RSA-SIGNED TOKEN THAT FURTHER COULD BE TRANSFERRED FROM PERSON TO PERSON.RPOW SOLVED THE DOUBLE-SPENDING PROBLEM BY KEEPING THE OWNERSHIP OF TOKENS REGISTERED ON A TRUSTED SERVER.**
- **THIS SERVER WAS DESIGNED TO ALLOW USERS THROUGHOUT THE WORLD TO VERIFY ITS CORRECTNESS AND INTEGRITY IN REAL-TIME.**





Electronic Technocrat
TECHNICAL GUY



W. Scott Stornetta



Stuart Haber





- **FURTHER, IN 2008, SATOSHI NAKAMOTO CONCEPTUALIZED THE THEORY OF DISTRIBUTED BLOCKCHAINS. HE IMPROVES THE DESIGN IN A UNIQUE WAY TO ADD BLOCKS TO THE INITIAL CHAIN WITHOUT REQUIRING THEM TO BE SIGNED BY TRUSTED PARTIES.**
- **THE MODIFIED TREES WOULD CONTAIN A SECURE HISTORY OF DATA EXCHANGES. IT UTILIZES A PEER-TO-PEER NETWORK FOR TIMESTAMPING AND VERIFYING EACH EXCHANGE.**
- **IT COULD BE MANAGED AUTONOMOUSLY WITHOUT REQUIRING A CENTRAL AUTHORITY. THESE IMPROVEMENTS WERE SO BENEFICIAL THAT MAKES BLOCKCHAINS AS THE BACKBONE OF CRYPTOCURRENCIES. TODAY, THE DESIGN SERVES AS THE PUBLIC LEDGER FOR ALL TRANSACTIONS IN THE CRYPTOCURRENCY SPACE.**





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Hal Finney



Satoshi Nakamoto

