

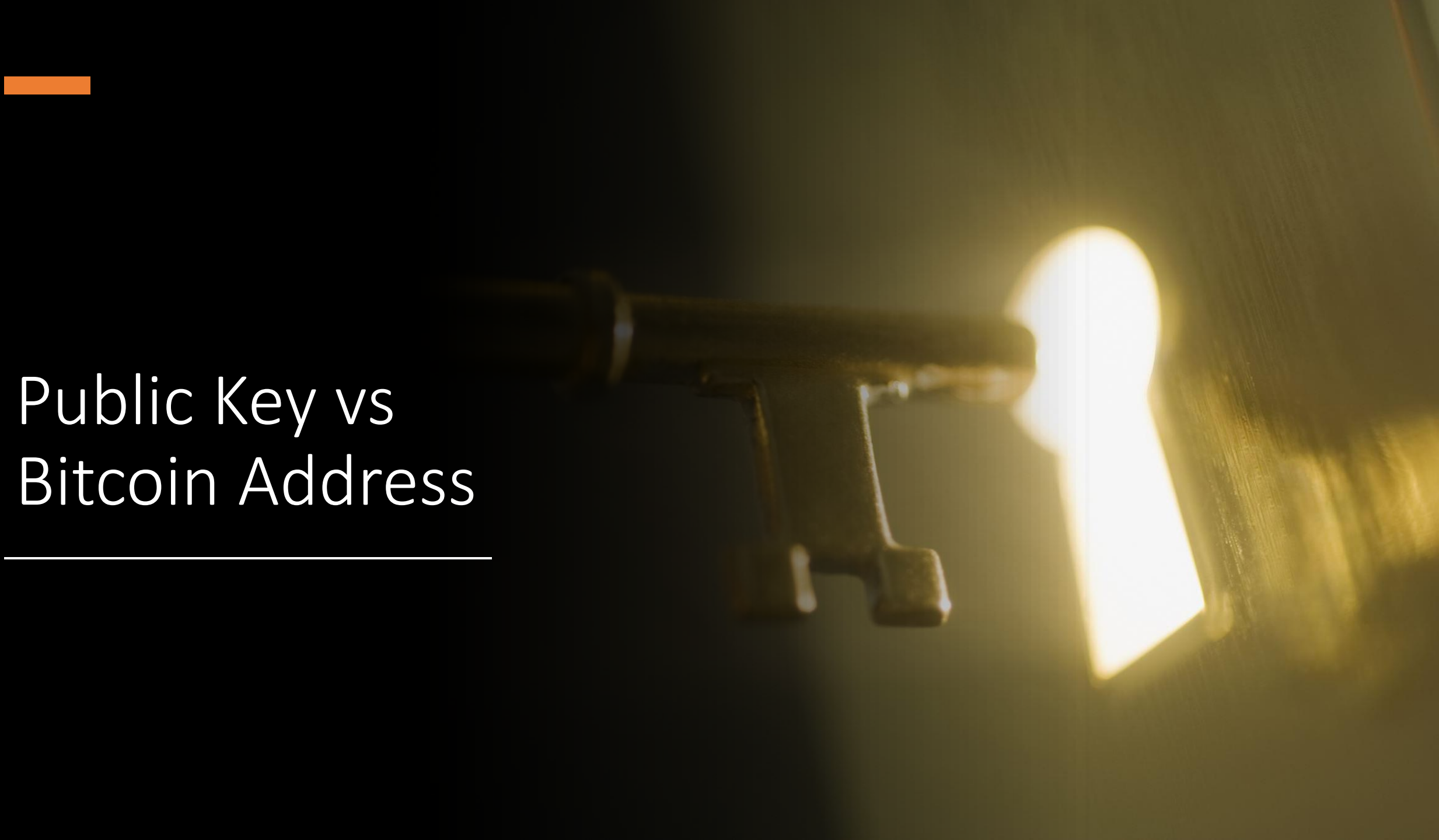


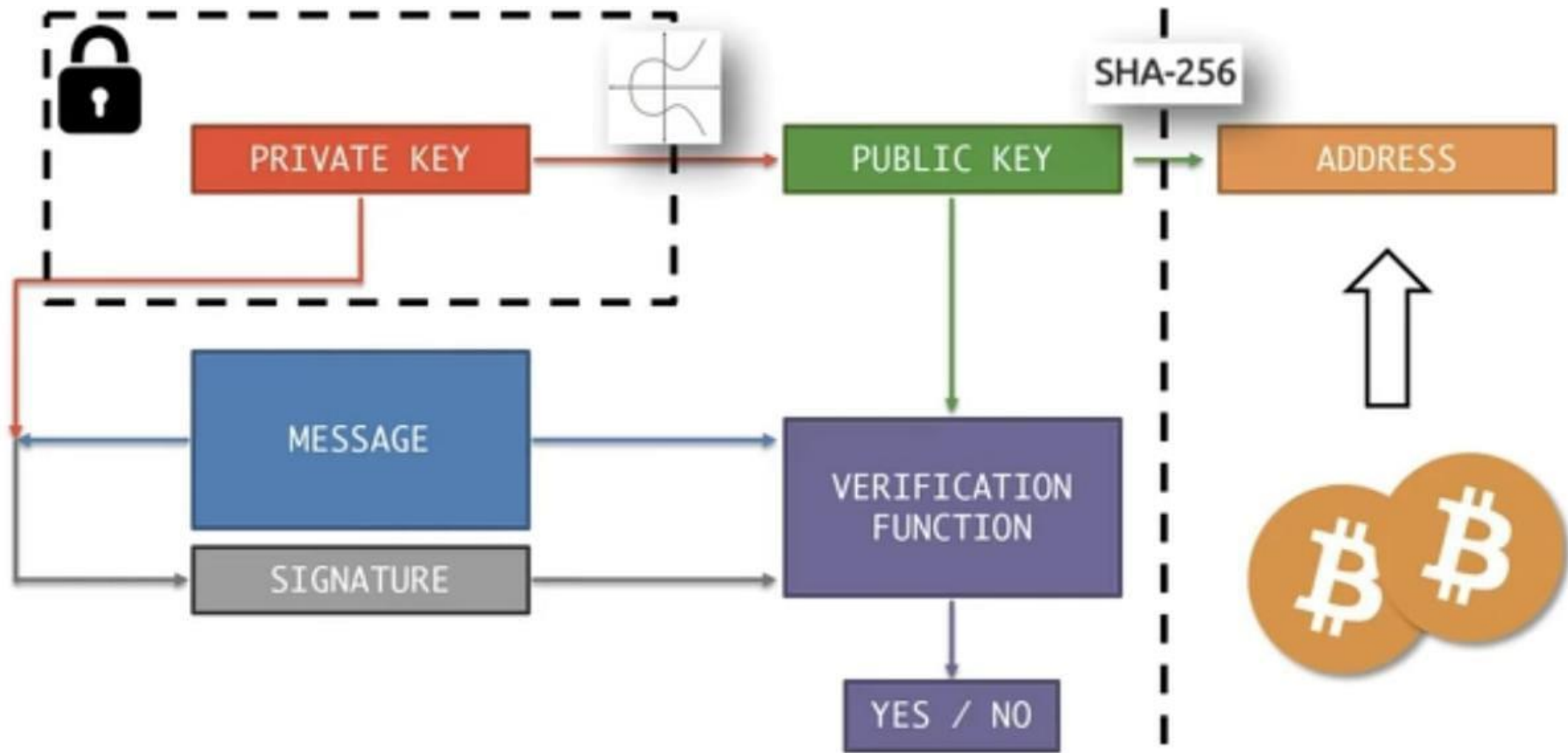
Blockchain and Cryptocurrency

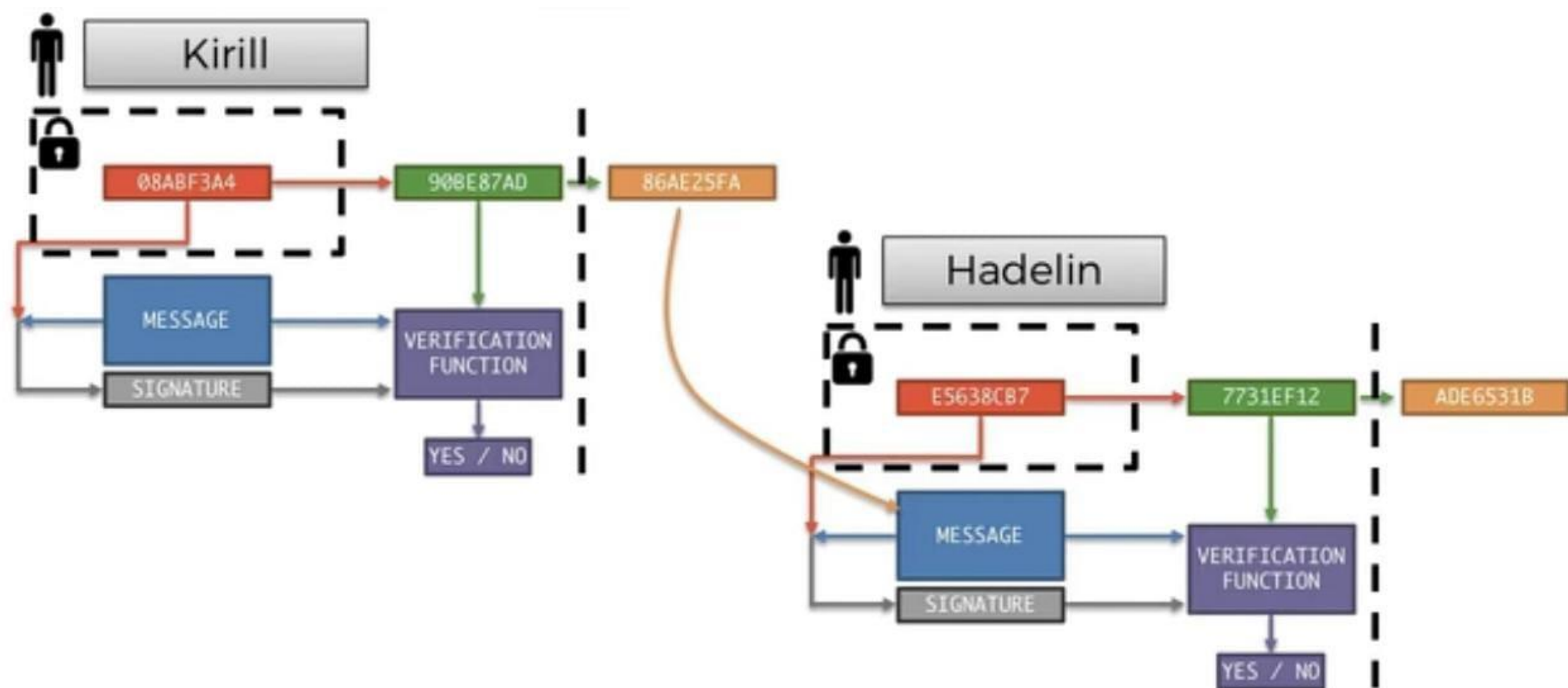
By: Syeda Tayyaba Bukhari



Public Key vs Bitcoin Address





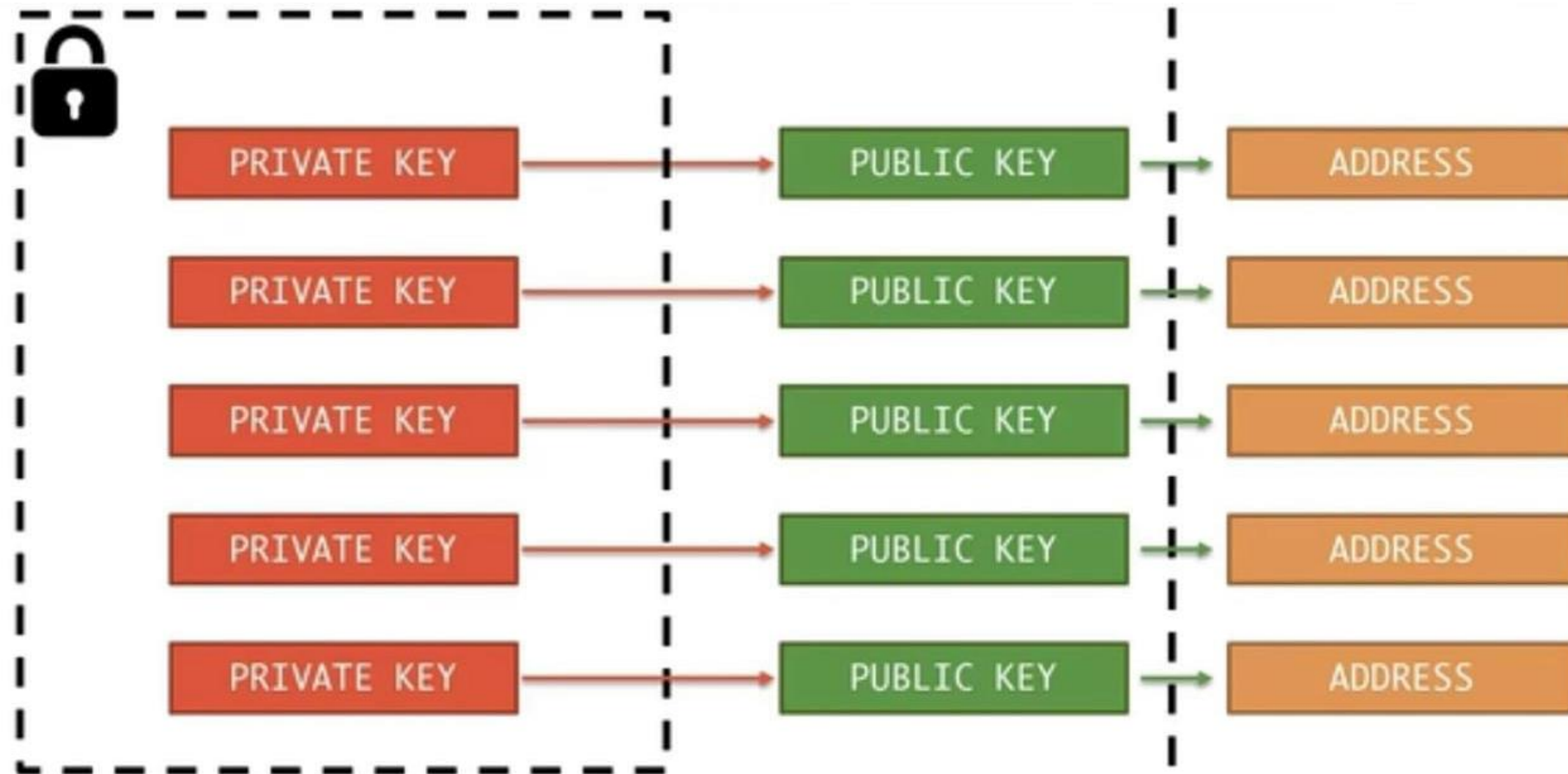




HD(Hierarchically Deterministic) Wallets



Multiple private-public keys for security purpose





MASTER PRIV KEY

PRIVATE KEY

PUBLIC KEY

ADDRESS

+1

PRIVATE KEY

PUBLIC KEY

ADDRESS

+2

PRIVATE KEY

PUBLIC KEY

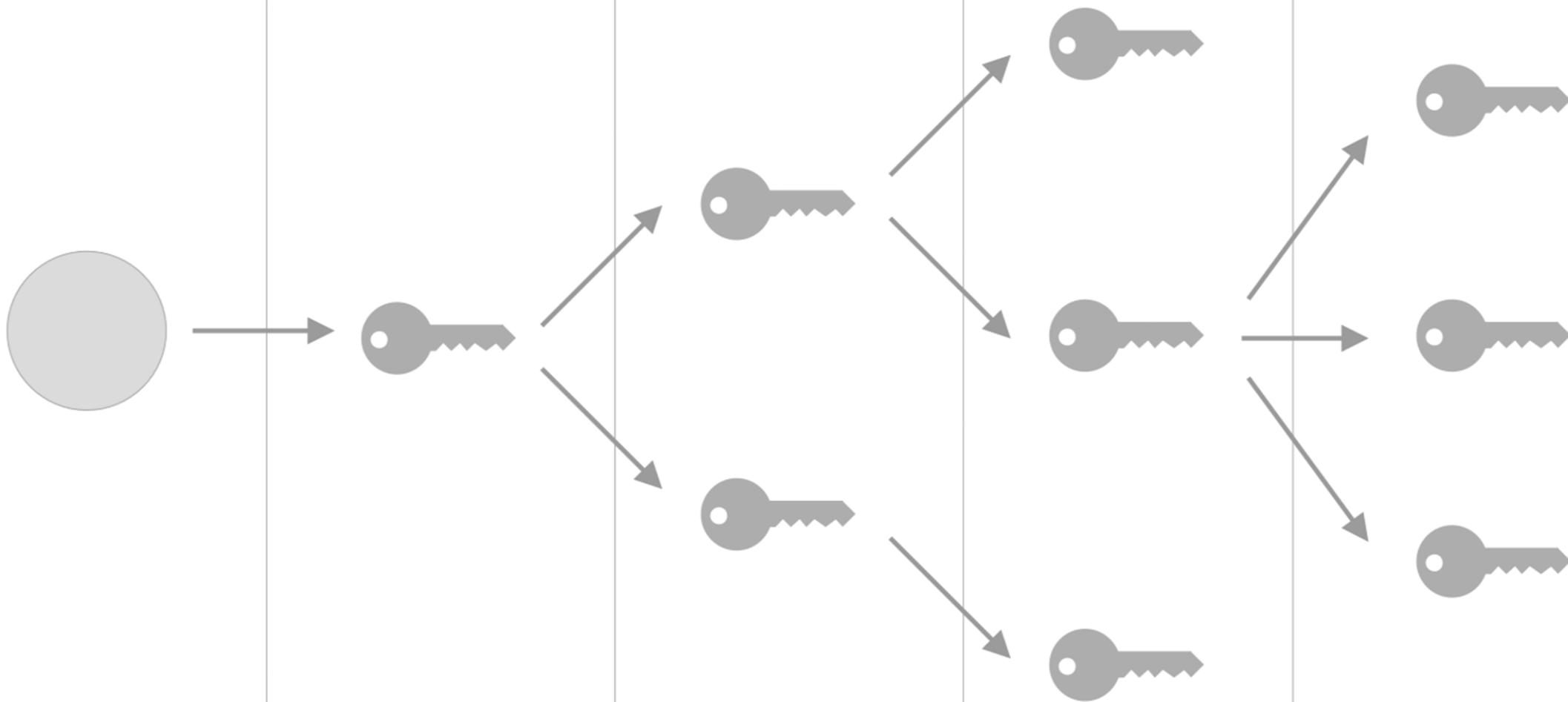
ADDRESS

+3

PRIVATE KEY

PUBLIC KEY

ADDRESS



Additional Reading




DETERMINISTIC WALLETS, THEIR ADVANTAGES AND THEIR UNDERSTATED FLAWS

<https://bitcoinmagazine.com/technical/deterministic-wallets-advantages-flaw-1385450276>

Plan of Attack of next Module

- 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
- Initial Coin Offerings (ICOs)
- ICO Case Study
- Blockchain Startups: White Papers



What is
Ethereum?





Vitalik Buterin

Ethereum:
project
created by:

Scripting language used by Ethereum: Solidity

Scripting Language: way to create programs using bitcoin



Regarding Assignment 2:

Ethereum
Based

Tool(s)

Linux(Ubuntu)

```
graph TD; A[Ethereum Based] --- B[Tool(s)]; B --- C[Linux(Ubuntu)];
```

The diagram illustrates the relationship between three components. On the left, a blue box labeled 'Ethereum Based' is connected by a horizontal line to another blue box labeled 'Tool(s)' on the right. A vertical line then connects the 'Tool(s)' box to a grey box labeled 'Linux(Ubuntu)' positioned below it.

Acknowledgement and Source:

- <https://www.udemy.com/course/build-your-blockchain-az/>