# Wallets, Keys, & Transactions

Blockchain-powered cryptocurrencies

### What is a wallet?

Wallets store the balance of an individual.

They store an individual's keys.

<u>Private key</u>

Used to generate signatures.

Public key

Used to verify signatures.

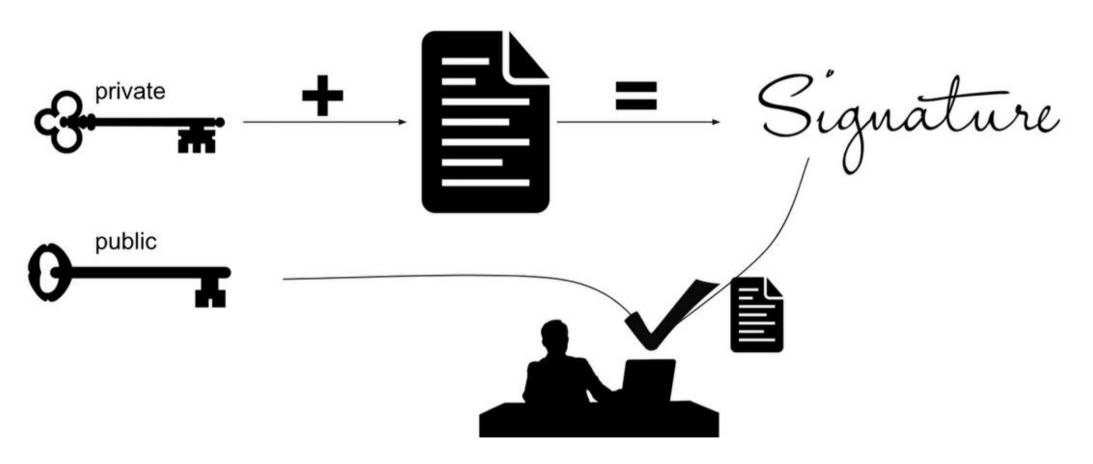
Also the public address.

#### Balance: 0xfoo1

#### **Transactions**

Input: timestamp, Input: timestamp, Balance: 500, signature, Balance: 300, signature, sender's public key: 0xzag3 sender's public key: 0xfoo1 Output: Output: Amount: 40, Amount: 20, Address: 0xbar2 Address: 0xfoo1 Output: Output: Amount: 460, Amount: 280, Address: 0xzag3 Address: 0xfoo1

## **Digital Signatures**



### **Blockchain-powered Cryptocurrencies**

- Contain wallet objects.
- Keys for digital signatures and verification.
- Have transactions objects to represent currency exchange.