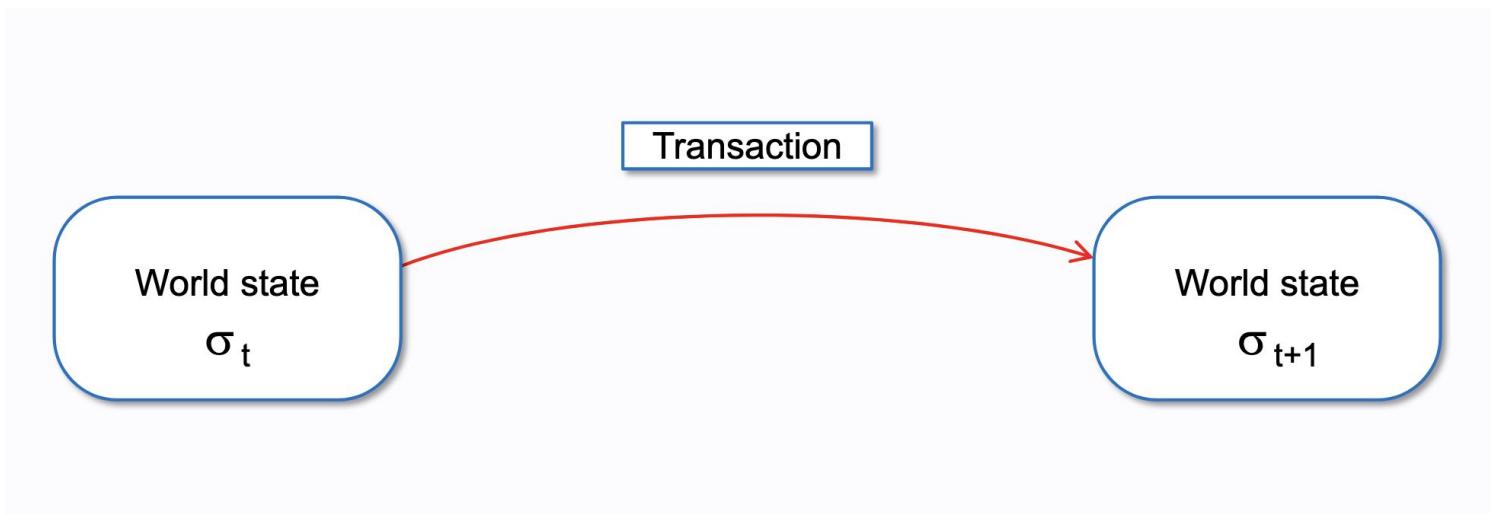


Smart Contract 101

Zion 2025.11.13

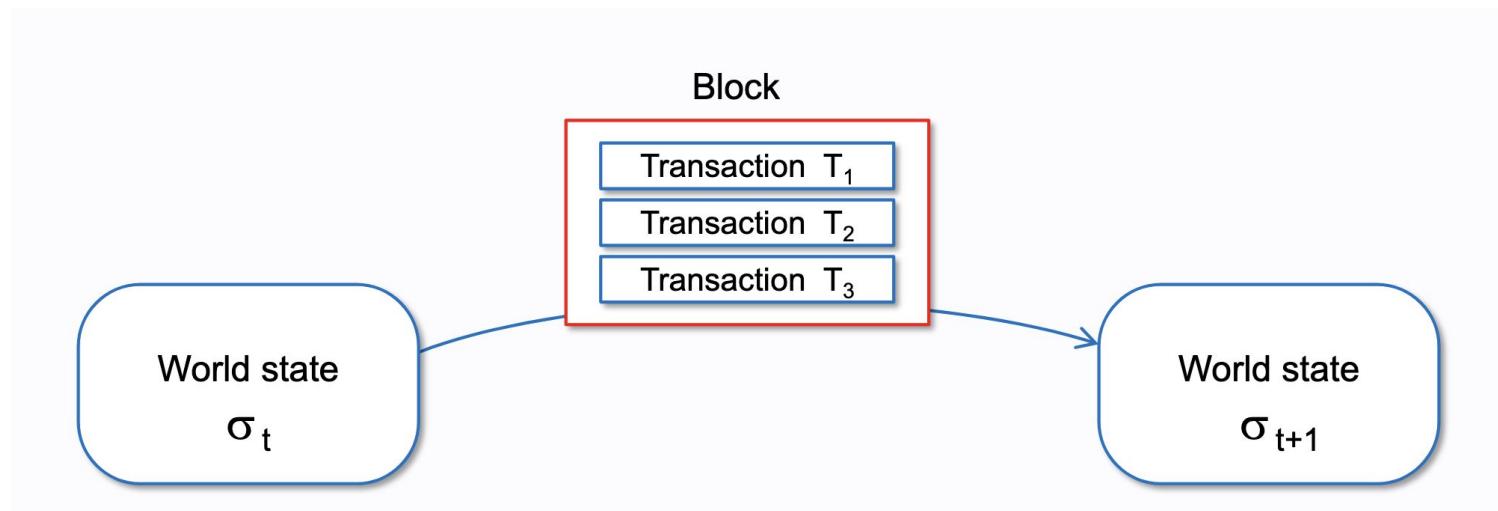
State Machine

- Blockchain is a state machine



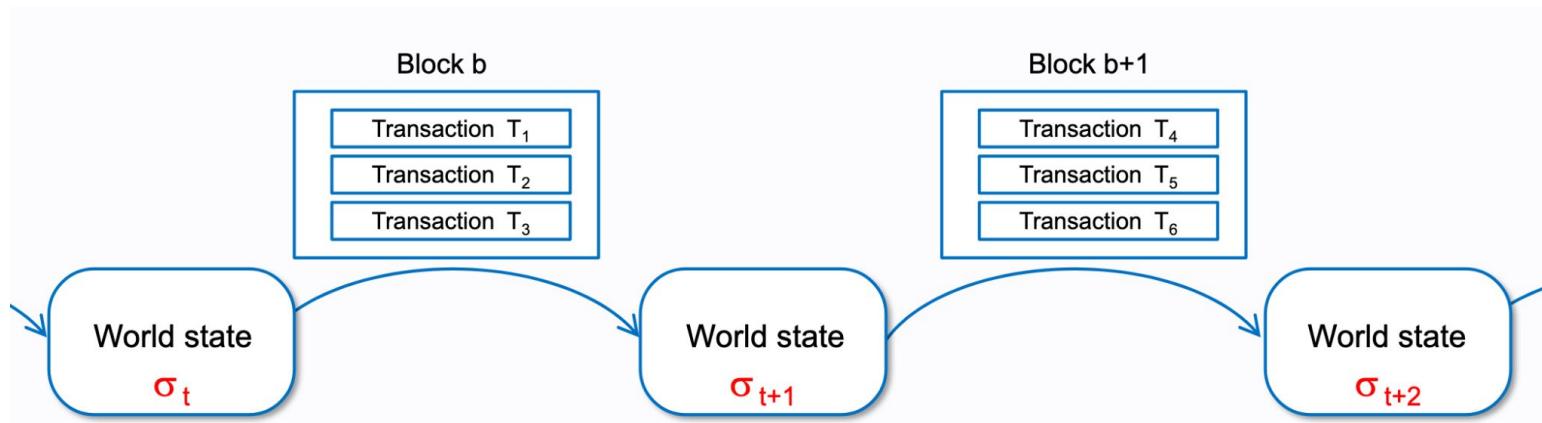
State Machine

- Transactions are input data



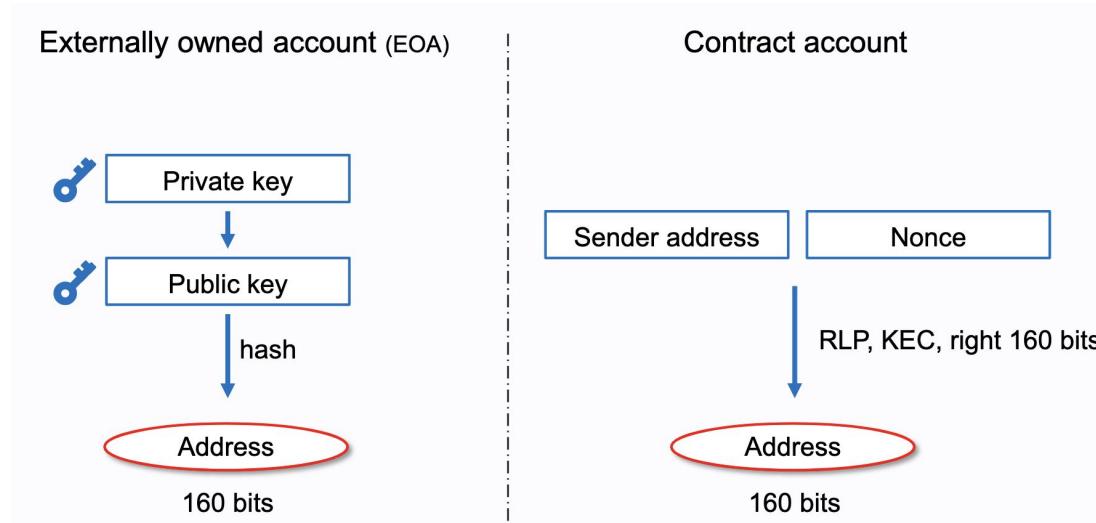
State Machine

- Chain of States

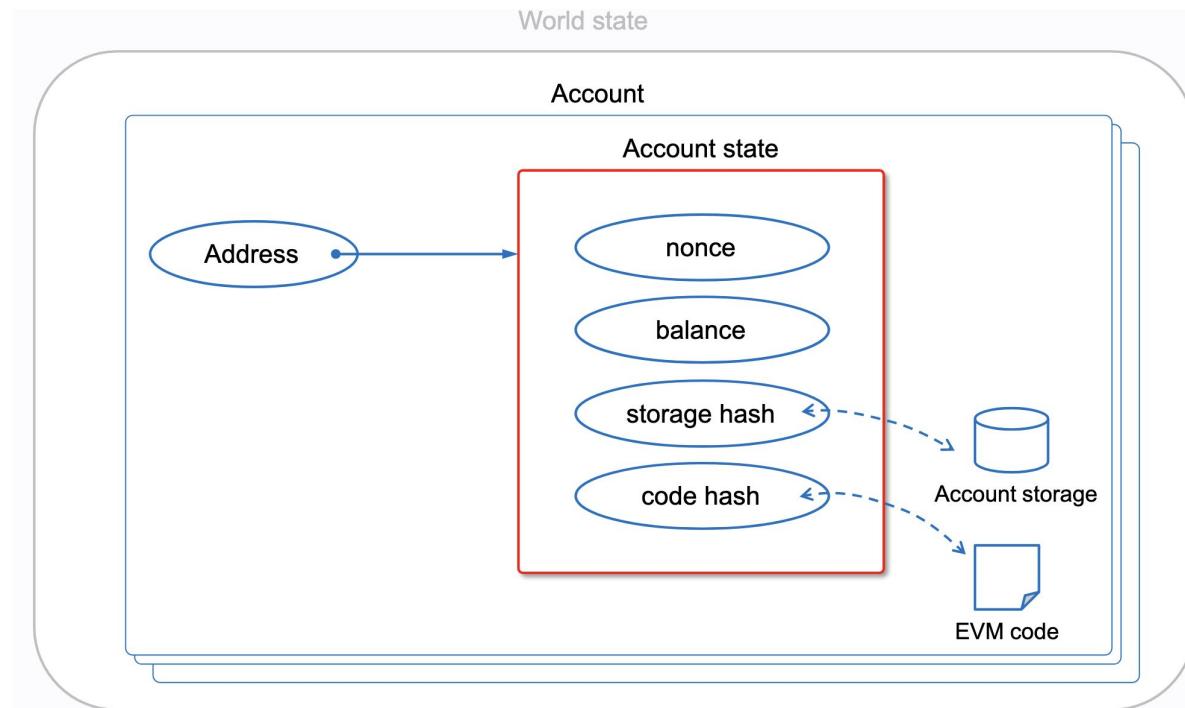


Account Address

- Externally Owned Account
 - Private key -> Public key -> Address (0x1234...def)
 - **Not your key, not your coin**
- Smart Contract
 - No key behind SC address

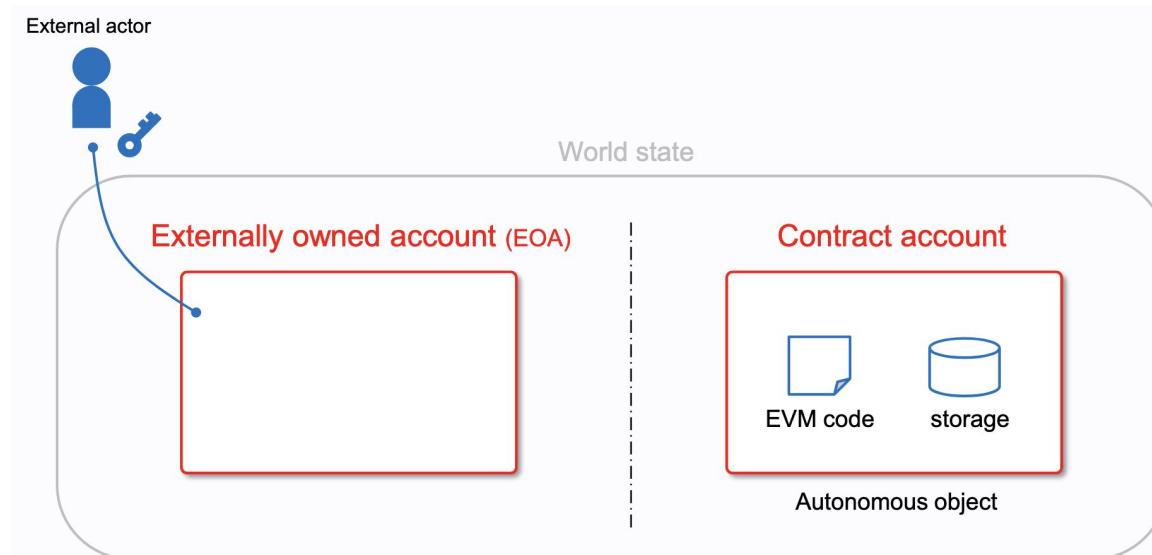


Account State

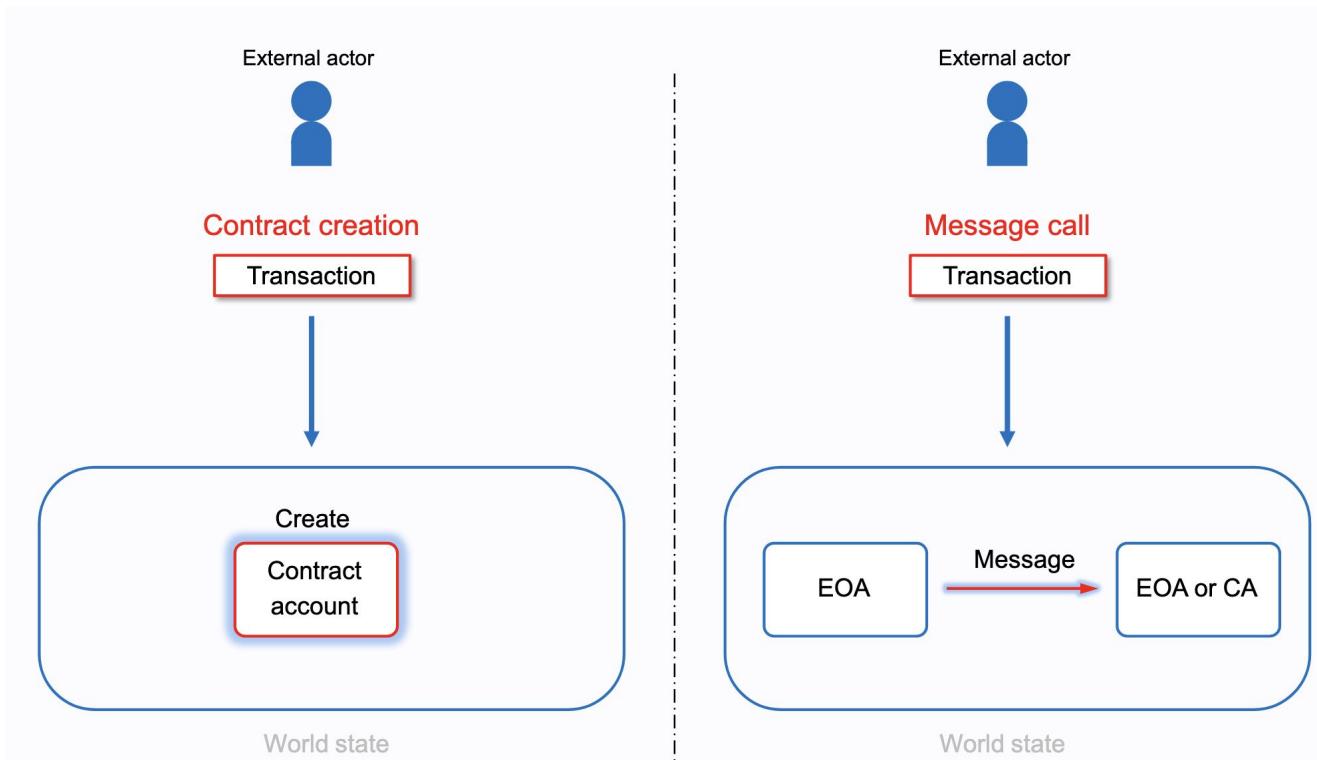


EOA vs. SC

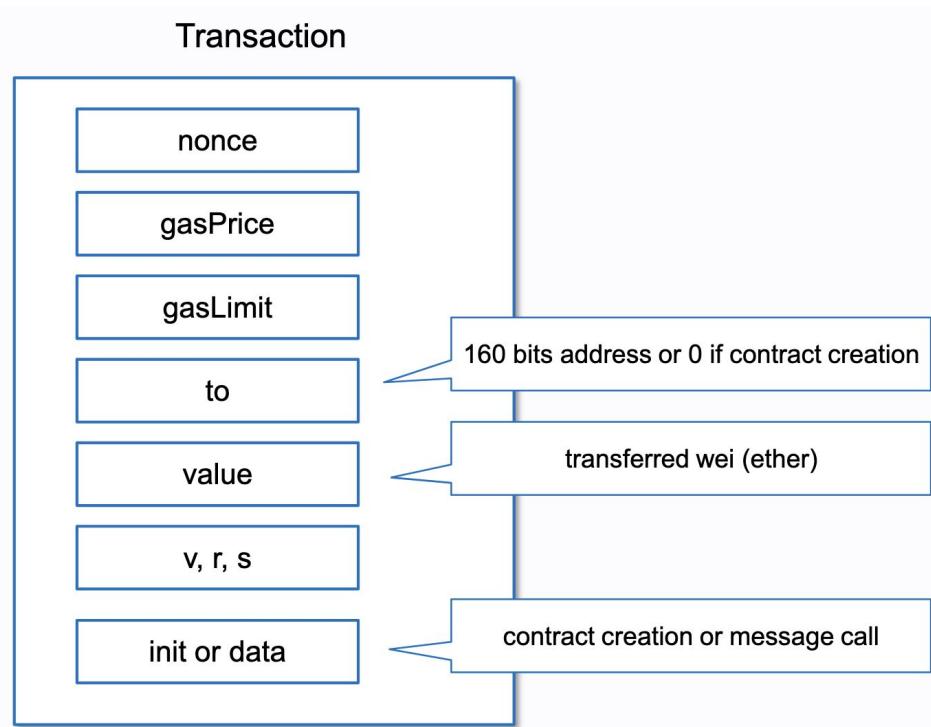
- EOA: No code, no storage
- SC: Immutable code, variable storage



Transaction



Transaction



Contract Interaction

- RPC + Contract Address + Contract ABI
- ERC-20
 - USDC on Ethereum
 - Transfer Call
- Orderly Vault
 - Orderly Vault on Ethereum
 - Deposit Call

