# Ethereum

Two type of account :

* Externally owned account (EOA) [private key, have the private key to send the message]
  + Has an ether balance
  + Can send transactions (ether transfer or trigger contract code)
  + Is controlled by private keys
  + Has no associate code
* Contract Account [an account has its own code, controlled by code]
  + Has an ether balance
  + Has associated code
  + Code execution triggered by transactions or messages (calls) received from other contracts
  + When executed – perform operations of arbitrary complexity; manipulate its own persistent storage, can have its own permanent state – can call other contracts
  + Message[Contracts can send messages to other contracts, is like a transaction but produced only by contracts not EOA]:
    - The sender of the message
    - The recipient of the message
    - Value field ( the amount of wei to transfer alongside the message to the contract address)
    - Optional data field ( actual input data to the contract )
    - STARTGA which limits the maximum amount of gas the code execution triggered by the message can incur