

**Mempool** validated but unverified txs maintained by each node



~ 1000 - 10000 txs

each node picks txs to form next block

~ 1000 - 3K txs/block

## transaction

tx ~ 300 vBy

outputs

= UTXOs

= unspent

tx outputs

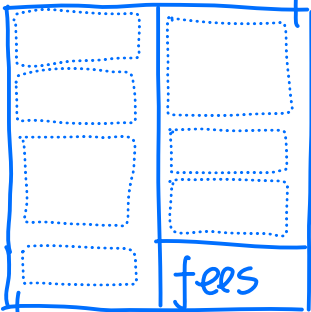
1 - No outputs

~ 30 sats/vByte

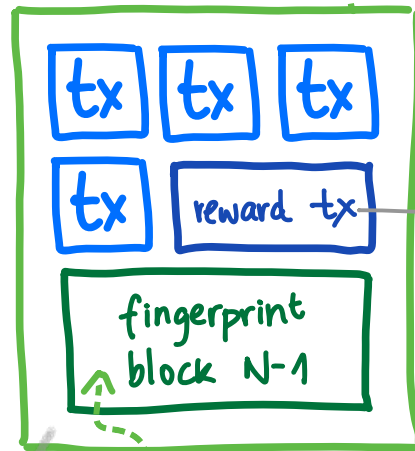
inputs = outputs + fees

1 - N<sub>i</sub> inputs

inputs are previous UTXOs, unlocked by the owner



## block N



fees + block subsidy

2024-28:  
3.125 \$/block

**Mining**: each node tries to solidify the composed block into the blockchain using the **proof-of-work**. The header of the block + a random number are hashed; the random number needs to be guessed. Easy to verify, difficult to guess.

## blockchain

