



how did we get here?

- gas is too expensive
 - rollup-centric roadmap
 - off-load execution to L2s
 - gas is cheaper, TPS increases
 - ETH is dead...?

CT: "No ETH value accrual"

"L2s vampire Ethereum"

"Solana will outcompete"

Me:



mailbear

what's the deal?

- L2s are not interoperable
 - fragmented liquidity
 - fragmented users
- developers need to
 - pick a winning chain/ecosystem
 - deploy across many chains
- ETH has lost value
 - DA fees are [temporarily] low
 - execution is where the money is
 - issuance has increased
- "intraop" is coming instead of "interop"

this is a *negative-sum* game



how to fix fragmentation?

- 1. agree on one entity to sequence all the rollups
- 2. ... that's it

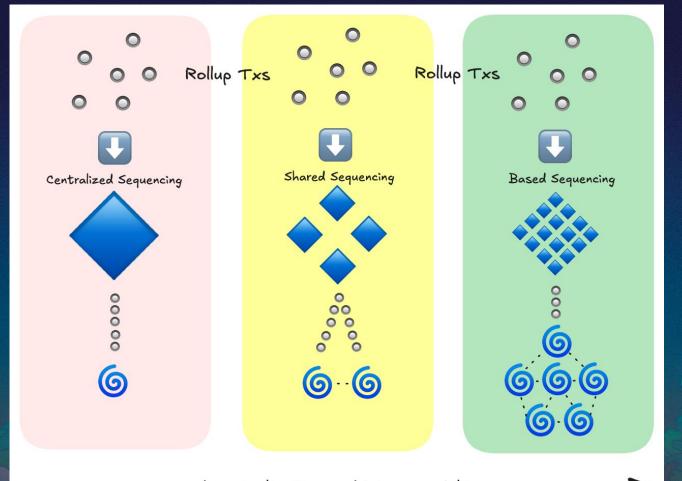




wtf are based rollups?

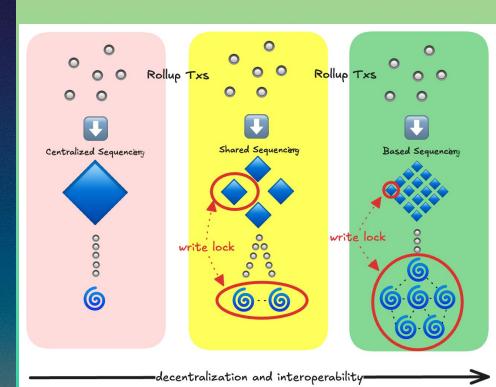
"A rollup is said to be based, or L1-sequenced, when its sequencing is driven by the base L1. More concretely, a based rollup is one where the next L1 proposer may, in collaboration with L1 searchers and builders, permissionlessly include the next rollup block as part of the next L1 block." <u>- Justin Drake</u>





how does it help?

- -> L2 interop requires write-locks over L2 state
 - -> shared sequencing enables this
 - -> based sequencing is the most credible form







based rollups have bad UX

what's the problem?

- based sequencing operates at L1 block times
- L2 users don't want to wait 12s tx confirmations
- we don't want to hardfork to reduce slot times
 - centralization vector
 - R&D time
 - client bugs

Enter

- preconfirmations

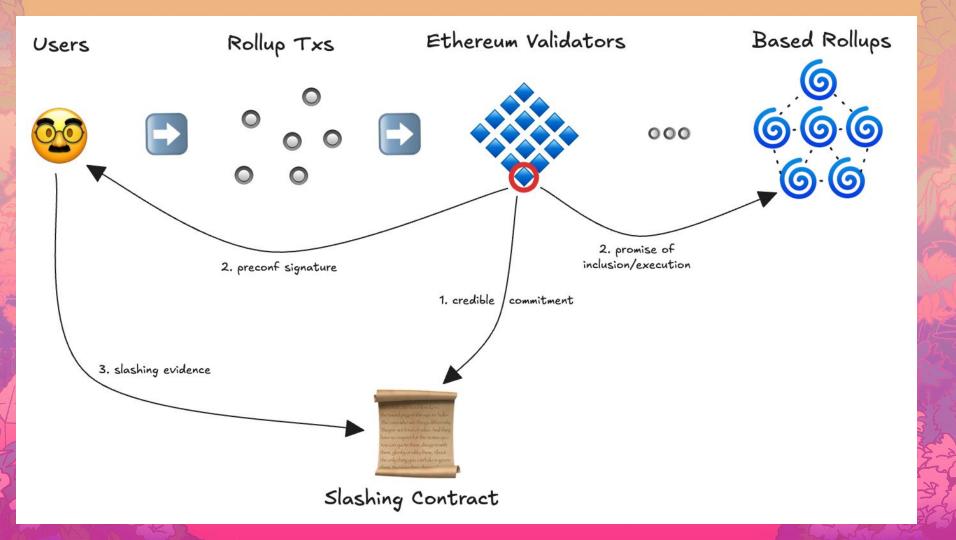




preconfs are commitments from validators to users

- 1. user wants to send a tx
- 2. validator promises to do **something** when proposing
 - a. include the tx
 - b. execute with guaranteed post-state
- 3. user can slash validator who breaks their promise





we can be faster than solana (without centralized sequencers)

