

pixelplex:

# Solana vs Ethereum



Who's Gonna Rule **the DeFi World?**



# Market cap.

pixelpix

November 23, 2021



## Solana

Market cap - **\$64.9 billion**

Coin price - **\$213**

Projects - **400+**

## Ethereum

Market cap - **\$486.5 billion**

Coin price - **\$4,114**

Projects - **2800+**

# Key facts about the blockchains

pixelplox

## SOLANA

## ETHEREUM



### LAUNCH DATE

March 2020

July 2015

### SMART CONTRACTS



- Written in Rust (mostly) and called programs
- Stateless and represent just program logic
- Parallel smart contracts runtime
- Data and code are decoupled

- Written in Solidity
- Once executed, they become immutable
- Deployed to their individual accounts
- The logic and state of a contract are combined into one contract deployed on-chain

### PROGRAMMING LANGUAGES

Rust

Solidity

### CONSENSUS MECHANISM

PoS + PoH

PoW -> PoS in Ethereum 2.0

### SCALABILITY

65,000 tps  
Scalable thanks to PoH

14,7 tps  
Sharding as a solution to the scalability problem

### TRANSACTION COST

\$0.00025

\$20-\$70

# Notable DeFi projects

pixelplex

## SOLANA



**Larix**



**Serum**



**Raydium**



**Star Atlas**

## ETHEREUM



**Uniswap**



**Augur**



**Aave**



**Securitize**

# Pros and cons: which one to choose

pixelplex

## Solana

### Pros:

- Processes a large number of transactions per second with low fees
- Highly scalable thanks to PoH and several other innovations
- No need to deal with numerous shards or Layer 2 solutions

### Cons:

- Has not officially completed the beta period
- Many implementations haven't been launched on the Mainnet Beta version
- A small number of validator nodes

## Ethereum

### Pros:

- Largest smart contract platform
- High security and true decentralization
- The issuer of token standards
- Multiple improvements coming with Ethereum 2.0

### Cons:

- High transaction fees
- Low scalability and transaction speed
- Frequent network congestion due to a large flow of users and transactions

# Options to migrate from Ethereum to Solana

pixelplex

- 1 Deploy SOL smart contracts by rewriting everything in Rust
- 2 Use Neon EVM to run Solidity contracts in Solana
- 3 Go for the Solang Solidity Compiler
- 4 Utilize Wormhole 2.0 as a bridge between Solana and Ethereum



pixelplex

# What's your opinion on Solana's boom?



Leave your **comments** below!

