

School of Solana Season 5

LECTURE 1 Introduction

Speakers

Adam



- Solana auditor @ Ackee Blockchain
- Speaker & your support on Discord
- Discord: lkrk

Speakers

Ondrej



- Main School of Solana speaker
- Advisor and Ackee Blockchain cheerleader
- Now focused on Web3 gaming

Speakers

Andrej



- Solana auditor @ Ackee Blockchain
- Speaker & your support on Discord
- Discord: dontcallmenymphadora

Organisation

Emre



- Community Manager @ Ackee Blockchain
- Brand Manager
- Discord & Twitter: @ekincixyz

Organisation

Josef



- Co-founder, CEO @ Ackee Blockchain
- Ph.D. and Assistant Professor @ CTU in Prague 🎓
- Discord: pepus_cz
- Twitter: @jgattermayer

About Ackee Blockchain



@AckeeBlockchain

<https://ackeeblockchain.com>

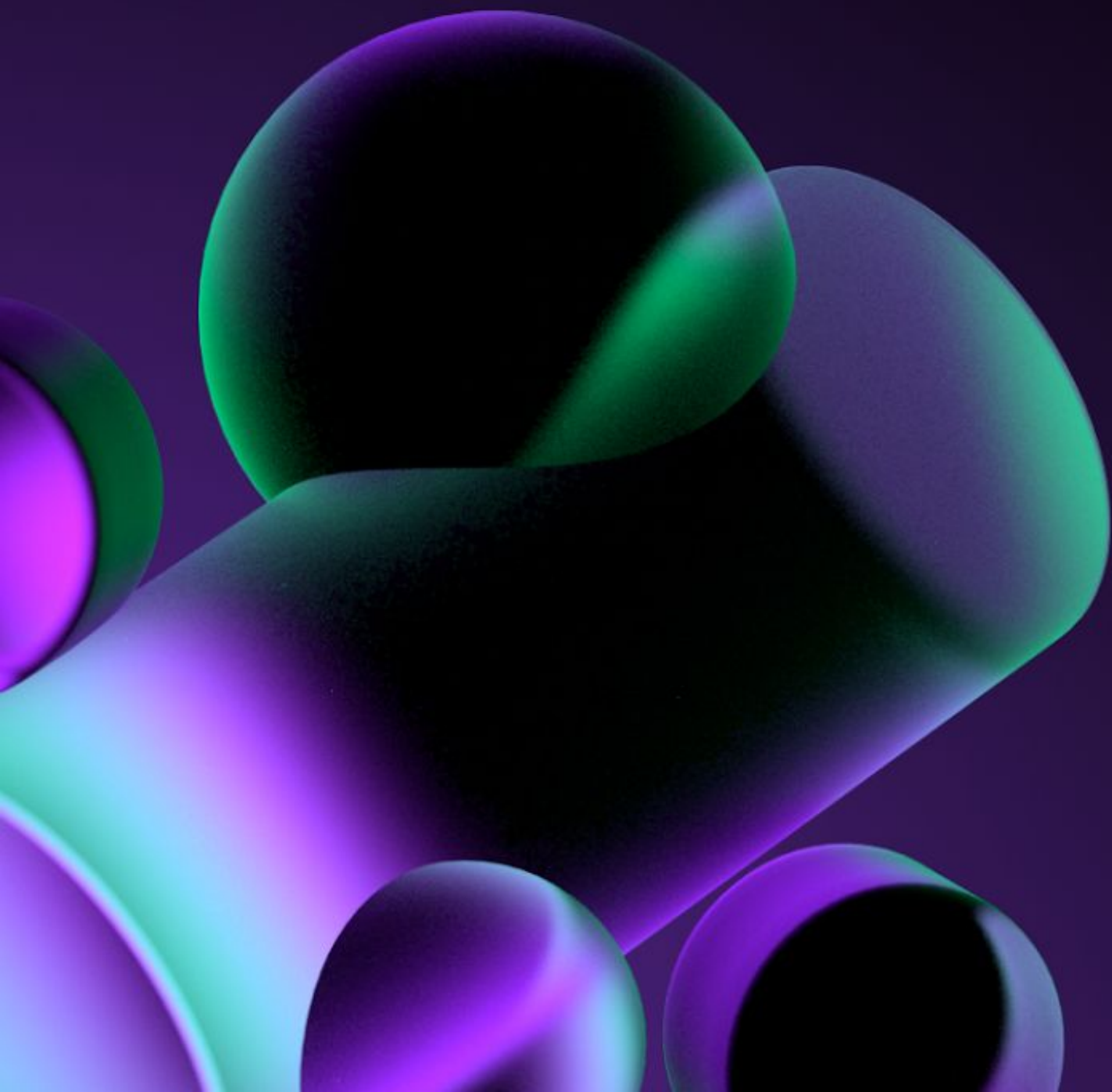
- **Security auditors and researchers**
 - Solana
 - Ethereum
- **Open source believers and contributors** ❤️
 - Eth: Wake testing framework, Tools for Solidity
 - Solana: Trident testing framework and fuzzer
- **Education is our DNA**
 - School of Solana
 - Blockchain course at CTU in Prague
 - Educational partner of Solana Foundation

ackee

We work with



About the course



What is this course about ?

- Introduction to Solana:
 - Core concepts;
 - Programming Model;
 - Ecosystem.
- Introduction to Rust and Anchor framework.
- Programming ~~smart contracts~~ programs on Solana.
- Having fun, building community and WORK TOGETHER.

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What this course is not about

- Introduction to Blockchain.
- Advanced Rust/Solana programming course.
- How to get rich in 9 weeks.

Prerequisites

- **Basic familiarity with a CLI.**
- **Basic programming knowledge in any language.**
- **Basic overview of what blockchain is.**

How does that work ?

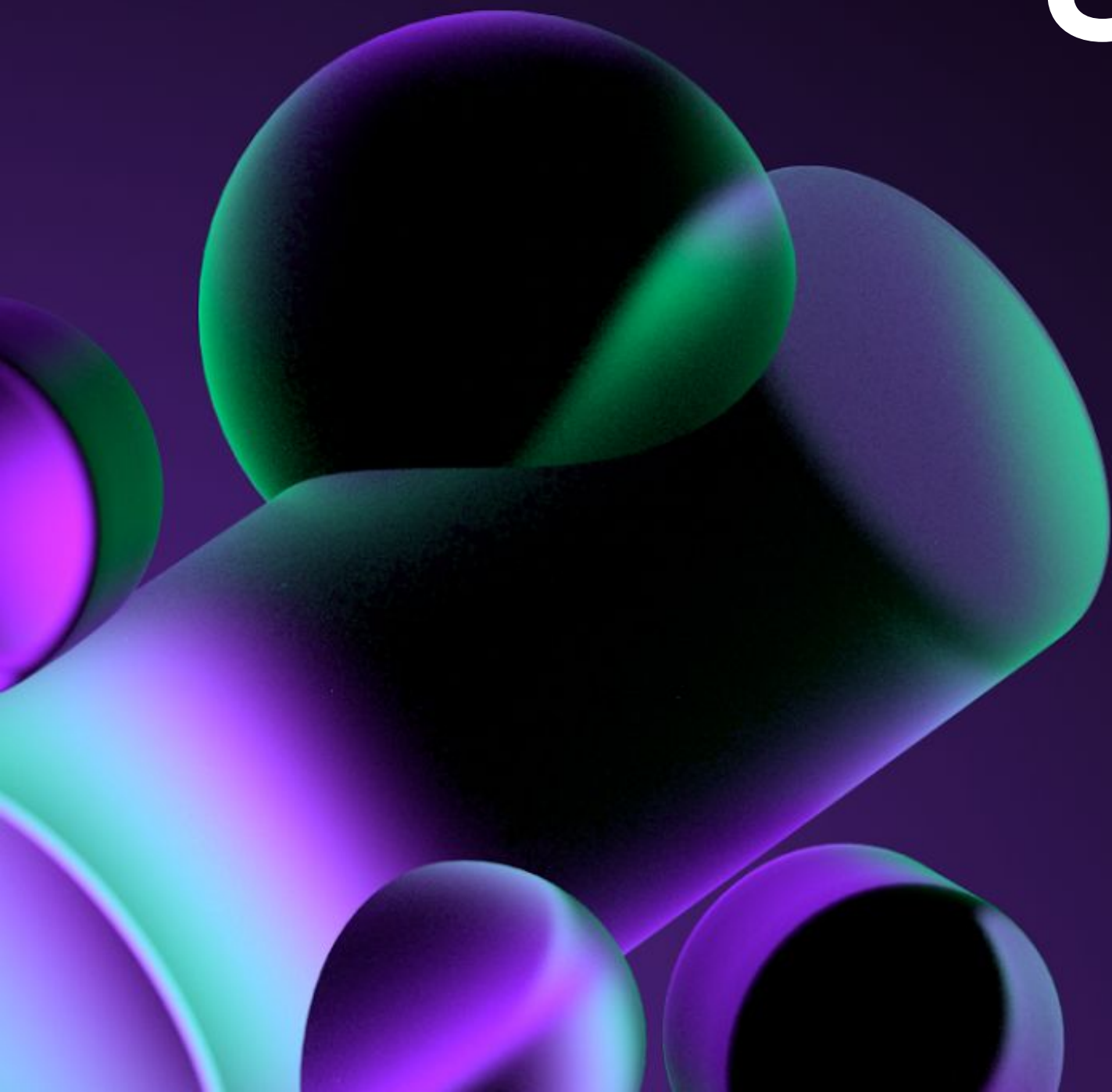
- Lessons are pre-recorded, premiered on Youtube every Wednesday.
 - Links will be shared on Discord in advance.
- Tasks will be handled via GitHub Classroom.
- Support on Discord and during on-demand AMA sessions.
- Do it at your own pace, only requirement is submitting the tasks and work together.

Certification requirements



- **7 lectures + bonus, task/test after each lecture.**
 - Deadline always Tuesday EOD (UTC)
- **Ackee Blockchain & Solana foundation NFT.**
 - Frozen auth to your wallet
 - Your name in metadata
- **Use your badge to enter advanced courses from partners.**
- **Skip lecture and just do the tasks if you feel confident.**

Solana Introduction



Solana



- Founded by Anatoly Yakovenko in 2017
- The Solana mainnet-beta went live officially in March 2020
- Native token SOL

Solana offerings

- **Scalability**
 - Sitting at comfy 4000 TPS
 - Scales natively with Moore's Law
 - No additional complexity through sharding or Layer 2 "solutions"
- **Decentralization**
 - Nakamoto coefficient 31
 - <https://nakaflow.io/>
- **Inexpensive execution**

Solana x Ethereum



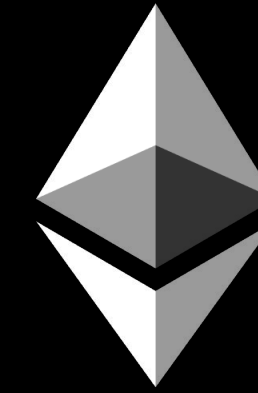
**Proof of Stake with
PoH**

400ms

Stateless

Rust

~50k TPS



Proof of Stake

13s

Stateful

Solidity

15TPS

Solana's key features

- Proof of History
- Tower BFT
- Turbine - block propagation
- Gulfstream - mempool
- Sealevel - runtime
- Pipelining
- Cloudbreak
- Archivers

Where can I learn all of that ?!

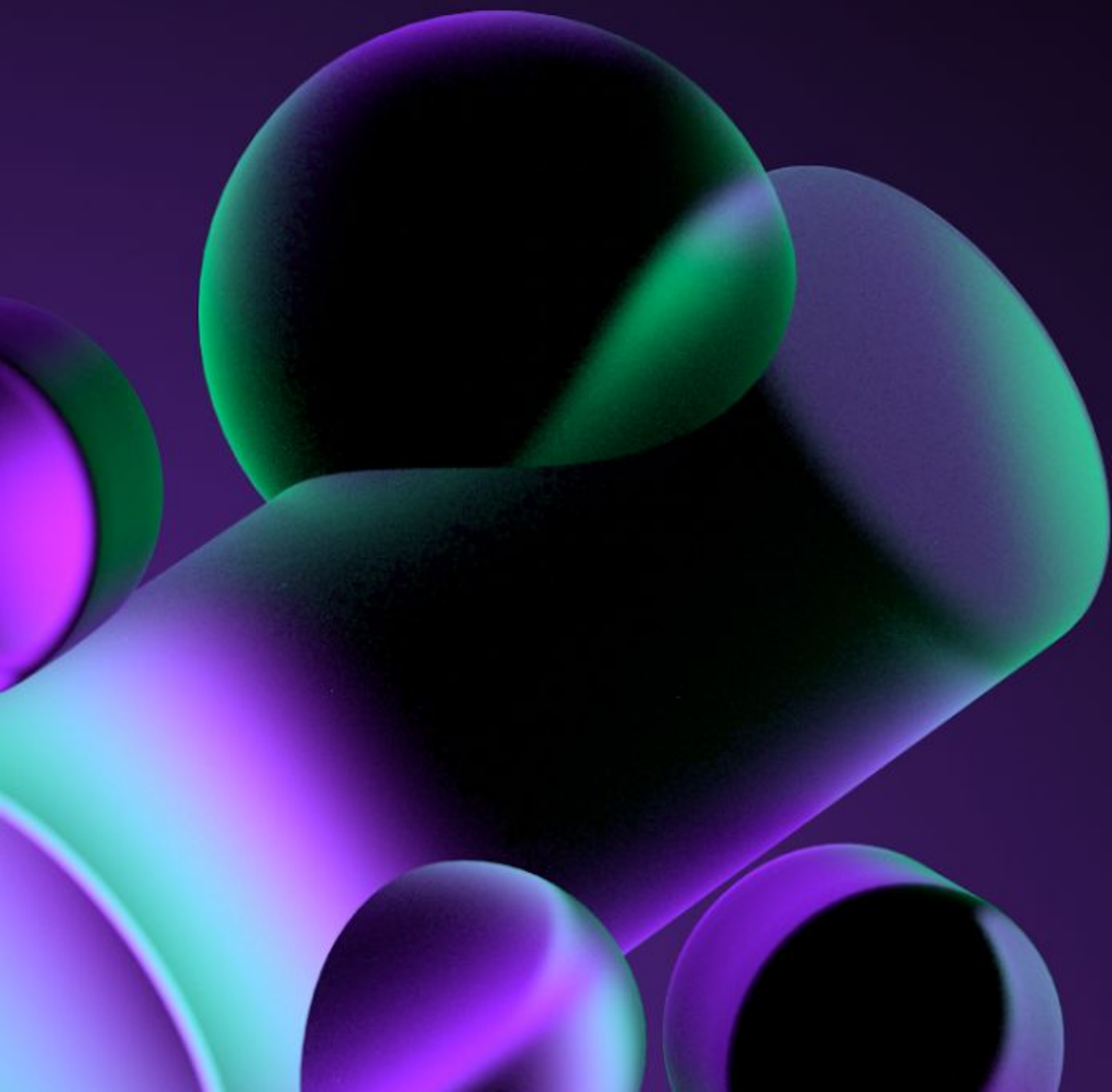
- **Ackee Solana Handbook**

- 49 pages introduction to Solana by Ackee Blockchain
- Created specially for the School of Solana

Get it here 

<https://ackeeblockchain.com/solana-handbook.pdf>

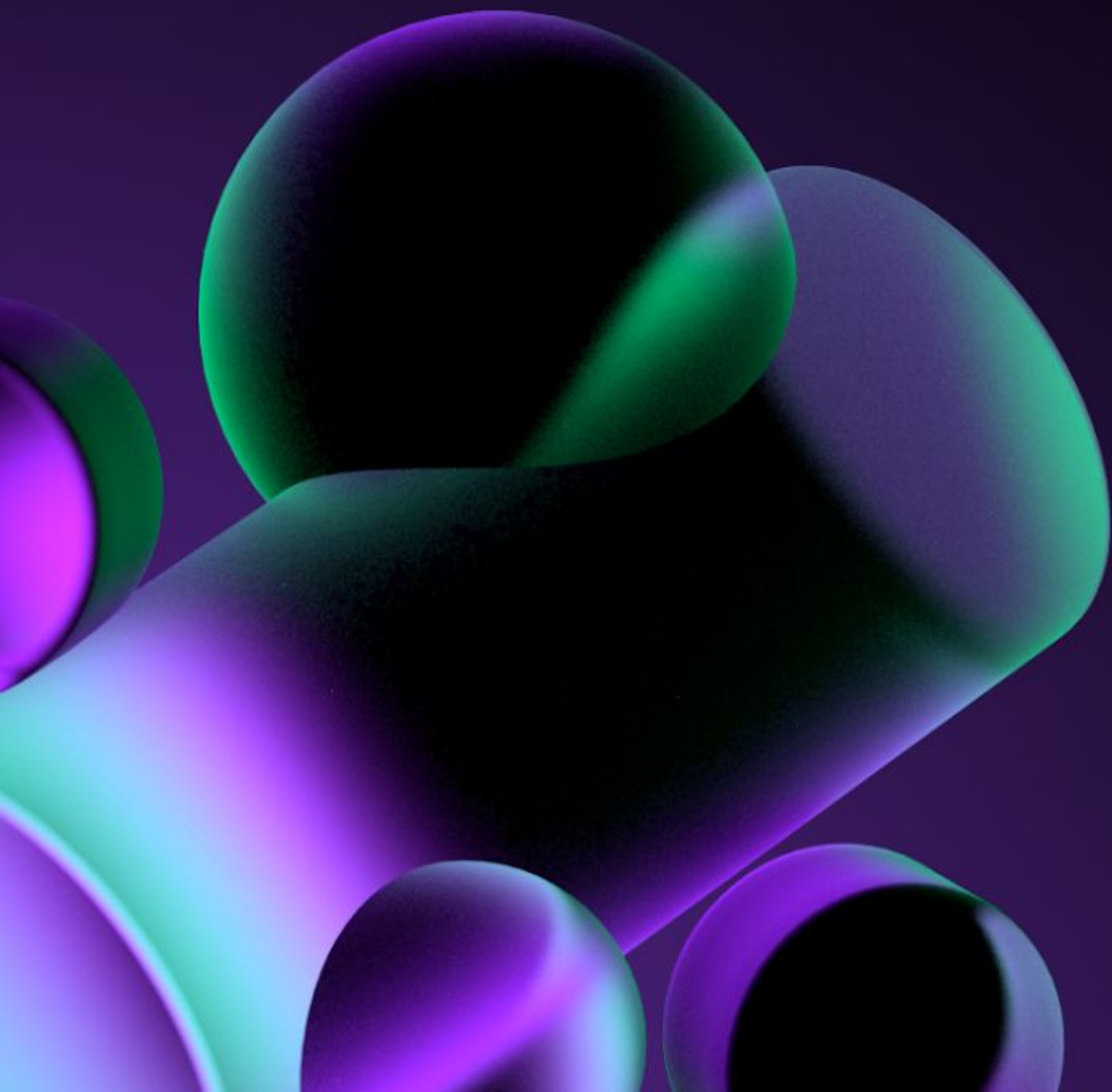
Solana Handbook



Setup Solana CLI & Dev Enviroment



Task 1





Thank you

See you next time!