

# The unified NFT developer experience

Making developers' lives easier

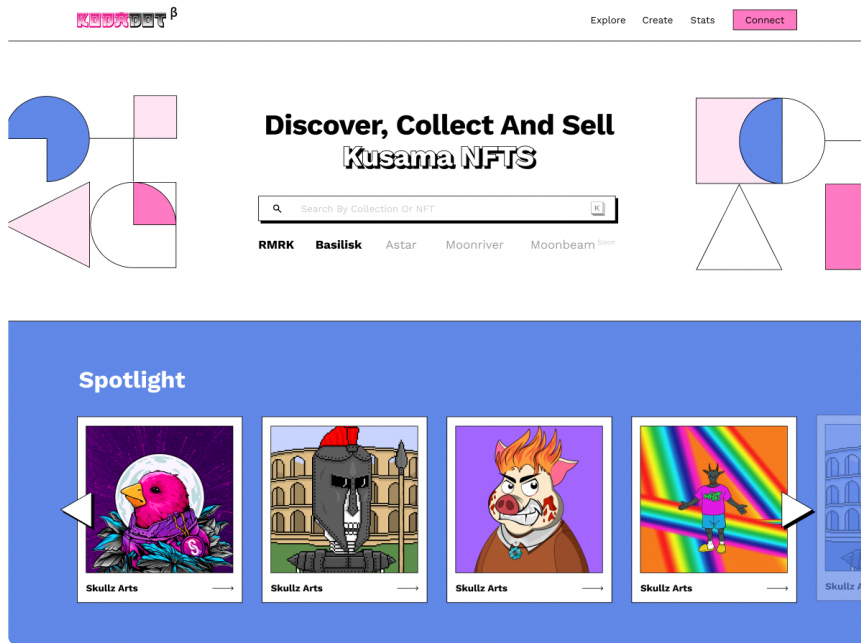
# Hey, I am Viki 🙋

- co-founder of KodaDot
- technical wizard
- bleeding edge implementations in KodaDot
- @vikiival



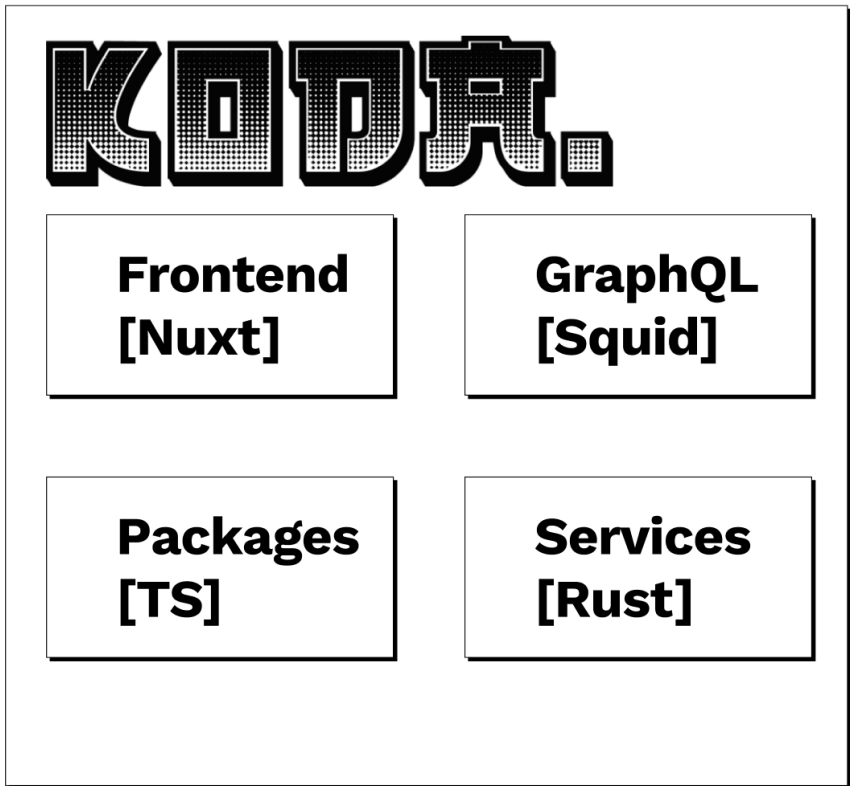
# What is KodaDot?

- Open-source NFT marketplace in the Dotsama ecosystem
- Multichain powered - Kusama, Basilisk, Moonbeam, Moonriver
- Technology agnostic - RMRK strings, runtime pallets, EVM, ink!
- Bounty based - bringing dev talent to the ecosystem
- 330 + forks, 220+ stars, 80+ contributors



# Architecture of KodaDot

- Frontend - Nuxt3, Vue composition API & Brick
- Services - Rust-based workers - pinning, images
- Backend - FireSquid Indexers by SubSquid, GraphQL API
- Packages
  - Minting
  - API
  - SubSquid utils
  - Conditional rendering



# Hello, minimark!

- Minimalistic implementation of RMRK protocol
- Do not rely on a single implementation
- Covered by unit tests
- DX oriented
- How to upgrade to v2
- Batteries included - constructing metadata, resources

```
// Use RMRK1
import { createCollection } from '@kodadot1/minimark/v1'

const caller = 'Fksmad33PFxhrQXNYPPJozgWrv82zuFLvXK7Rh8m1xC
const symbol = 'SNEK'
const name = 'Basilisk Snek'
const metadata = 'bafkreiazeqysfmeuzqcnjp6rijxfu5h7sj3t4h2r
const max = 9999

const collection =
  createCollection(caller, symbol, name, metadata, max)
```

```
// Use RMRK2
import { createCollection } from '@kodadot1/minimark/v2'

const collectionAsV2 =
  createCollection(caller, symbol, name, metadata, max)
```

# Finally, we have an API 🎉

- Let's meet Uniquery
- Query builder on top of subsquid
- two implementations
  - Builder
  - REST
- Best thing? - no middleware server is needed
- 15+ calls supported so far



KoDragons#1

creator:  
bXmx9pNXZw6dYkwaoafJyTrAZ...

# Why is Uniquery cool?

before

```
query nftListByCollectionId {  
  nft: nftEntities(where: {  
    collection: {id_eq: "2305670031"}}  
) {  
  id  
  metadata  
  currentOwner  
  issuer  
}  
}
```

after

```
import { getClient, ask } from '@kodadot1/uniquery'  
  
// using builder  
const client = getClient()  
const id = '2305670031'  
const query = client.nftListByCollectionId(id)  
  
// using REST  
const path = `/nftListByCollectionId/${id}`  
const result = await ask(path)
```

# Cross-chain strategy of KodaDot

- multi chain compatibility
- RMRKv1 & RMRKv2
- Basilisk NFT marketplace
- MoonRiver & MoonBeam
- Astar WASM & RMRK-runtime
- Acala EVM+

## Discover, Collect And Sell Kusama NFTs

**RMRK** **Basilisk** Astar Moonriver Moonbeam<sup>Soon</sup>



# Saving lines of code for XCMP

- Have you ever played with XCMP?
- It's breaking tech, but it's not easy
- Luckily, there is ParaSpell
- SDK for crosschain transfers
- Modular and easy to use
- Saving hundreds of lines of codes
- Oriented on developers

# Magic of ParaSpell

before

after

```
import { xTokens as paraspell } from '@paraspell/sdk'  
  
const paraId = 1000  
const amount = 1e12  
const address = 'Fksmad33PFxhrQXNYPPJozgWrv82zuFLvXK7Rh8m1x'  
const call = paraspell  
  .transferRelayToPara(api, paraId, amount, address)
```

*Paraspell* ✨

# Spin up your own DotSama project

- KodaDot is an excellent example of how to build on Substrate
- To iterate fast, we have sub-scaffold
- Open-source, hackable frontend scaffolding
- Based on Vue3, Nuxt3, NaiveUI
- ParaSpell UI will be built on top of it
- Ink! support coming soon










# and what's next for KodaDot?

- being your single asset interface for managing NFTs on Polkadot & Kusama
  - abstract technology from a user
  - which parachain am I at, and does it matter?
    - do necessary steps on behalf of the user in the background (token swaps, XCM transfers)
  - simplification of token transfers
  - the safety of transfers
- brewing protocol compatibility between various NFTs standards

# We are heads down trying new things

and you can do too with us

-  high-speed multi-chain search (wink SubSquid)
- abstracting NFTs from user experience
- generative art minting
- zkPrompts marketplace
- on-chain art without the need for off-chain code
- Graph NFTs

Q generati			
Collections	NFTs	User Soon	
	<b>Generative Brain Dump</b>	RMRK	
	<b>Generative Ninja Turtles</b>	RMRK	
	<b>GAV Cubes - Generative Audiovisual NFT</b>	RMRK	
	<b>Generative Math</b>	RMRK	
	<b>Generative Art — #multitommy</b>	RMRK	

# Your contribution matters

We are looking forward to more collaborators on

- music NFTs
- GLSL/shaders
- on-chain art grifters
- helping to shape our API/SDK for games



# SubWork – your best Web3 retreat in the mountains

- physical space outside of the city to laser focus on your project
- based in Bled, Slovenia, in the footstep of the Julian Alps
- rated among top10 beautiful places in Europe
- up & running
- we've already had 20+ visitors over the summer of '22
- opening ceremony mid of December
- go to <https://subwork.xyz> for more
- <https://twitter.com/subworkBled>



# Thanks for having us

and thank you for your contribution

- You can find us
  - <https://dsc.gg/kodadot>
  - <https://twitter.com/kodadot>
  - <https://twitter.com/vikiival>
  - <https://twitter.com/yangwao>
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