Footprint Analytics

How to choose a data provider for your web3 project?

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About Me

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Simplified Web3 Blockchain Data Product Stack

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分类	示例
数据应用	Nansen,Messari,Scan,Debank...
数据平台	Footprint, Dune, Flipside...
数据节点	Infura, Quicknode, Infstones, Alchemy...

Key factors in choosing a data provider

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- 数据需求:能满足你的特定需求和目 标。
- 数据质量:提供准确可靠的数据以及在行 业有一定声誉。
- 数据覆盖度:拥有涵盖你特定需求的广泛数据，当前以及未来几年的 发展计划。
- 数据整合:与你 现有系统，技术架构，数据格式的兼容性。
- 价格:定价应合理并符合行业标准。多找几家服 务商比较参考。
- 技术支持:能提供比 较好的技术支持，在你遇到问题并寻求帮助时，能得到及时回应和处理。
- 合法合规:遵守数据隐私和监管法律。

Key factors in choosing a data provider

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价格？ | 数据需求？ | 数据质量？ | 数据覆盖度？

成本 | 时间成本

低门槛 | 数据兼容 | 灵活定制

- 低门槛：你能够用你熟悉的方式得到解决方案。
- 兼容性：与你现有系统、技术架构、数据格式兼容，一站式与自己的私有数据兼容 对接。
- 灵活定制：标准产品不能满足的时候，能便捷的自定义解决方案，同时获得好的技术支持，个性化需求能得到及时回应和处理。

Scenario and case sharing - scan

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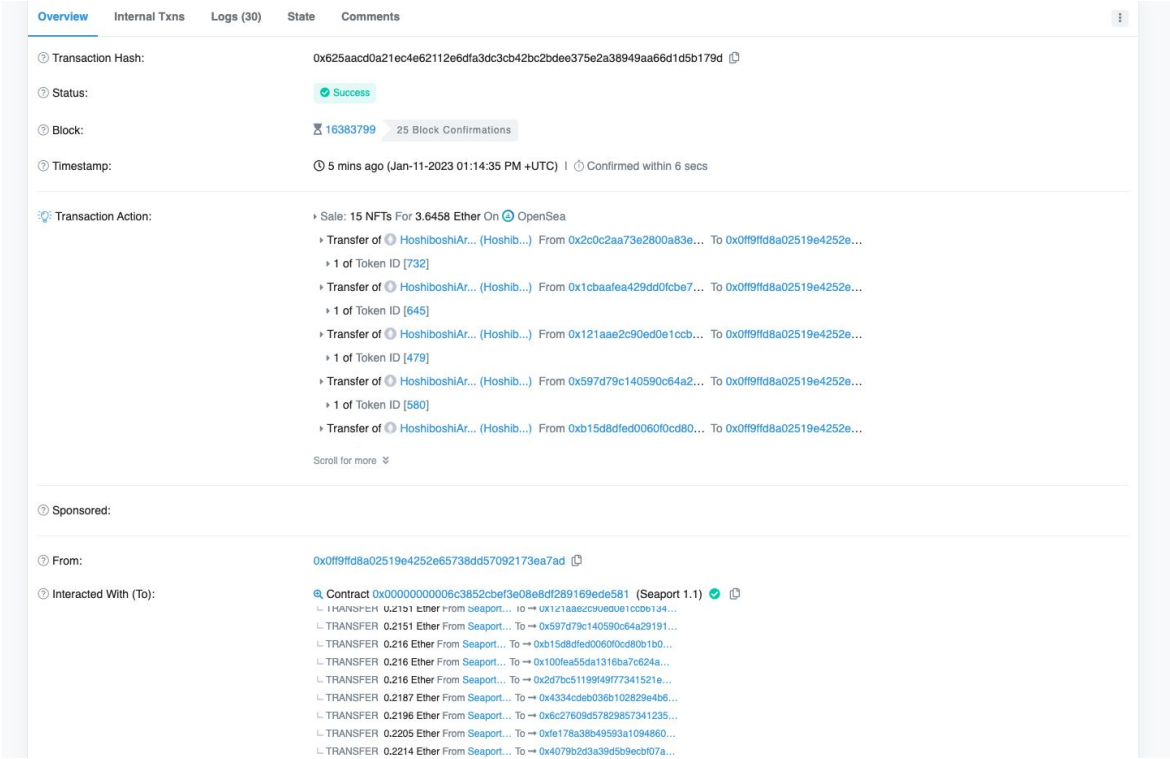
比如查看链上原始数据，比如 单笔交易的状态和明细数据，可以用Scan。能简单快速查看特定交易涉及的数据



Scenario and case sharing - scan

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使用Scan会有哪些限制？

- 汇总数据：比如你想看 Opensea某一天的交易量
- 时间序列数据：比如你想看 Opensea历史交易量趋势
- 跨链数据：比如你想看 Opensea在Ethereum和Solana的历史交易量趋势
- 高级搜索功能：比如你想看某个 NFT的所有转账历史以及在各大Marketplace上的交易数据

Scenario and case sharing - RPC Provider

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- 有研发团队以及大数据背景，有能力自建数据索引，处理以及存储等过程，去搭建数仓或者应用。
- 基于链底层数据，搭建实时交易或者实时分析应用

节点服务商	QuickNode	Infstone	Alchemy	Infura	ChainStack	Ankr	GetBlock	BlockDaemon
支持公链数量	12	11	5	8	13	12	39	53
Ethereum	1	1	1	1	1	1	1	1
BSC	1	1	0	0	1	1	1	0
Solana	1	1	0	0	1	1	1	1
Bitcoin	1	0	0	0	1	0	1	1
Optimism	1	0	1	1	0	0	1	0
Fantom	1	0	0	0	1	1	1	0
Terra	1	0	0	0	0	0	1	1
Arbitrum	1	0	1	1	0	1	1	0
Algorand	1	0	0	0	0	0	0	1
Gnosis	1	0	0	0	0	0	1	0
Polygon	1	1	1	1	1	1	1	0
Celo	1	0	0	0	0	1	0	1
Bitcoin Cash	0	0	0	0	0	0	1	1
XRP	0	0	0	0	0	0	1	1
Polkadot	0	0	0	0	0	0	1	1
EOS	0	0	0	0	0	0	1	0
Litecoin	0	0	0	0	0	0	1	0
Cardana	0	0	0	0	0	0	1	1
Near	0	0	0	1	0	1	1	1
Tron	0	0	0	0	0	0	1	0
Monero	0	0	0	0	0	0	1	0
Avalanche	0	0	0	0	1	1	1	1
Kusama	0	0	0	0	0	0	1	1
NEM	0	0	0	0	0	0	1	0

Scenario and case sharing - RPC Provider

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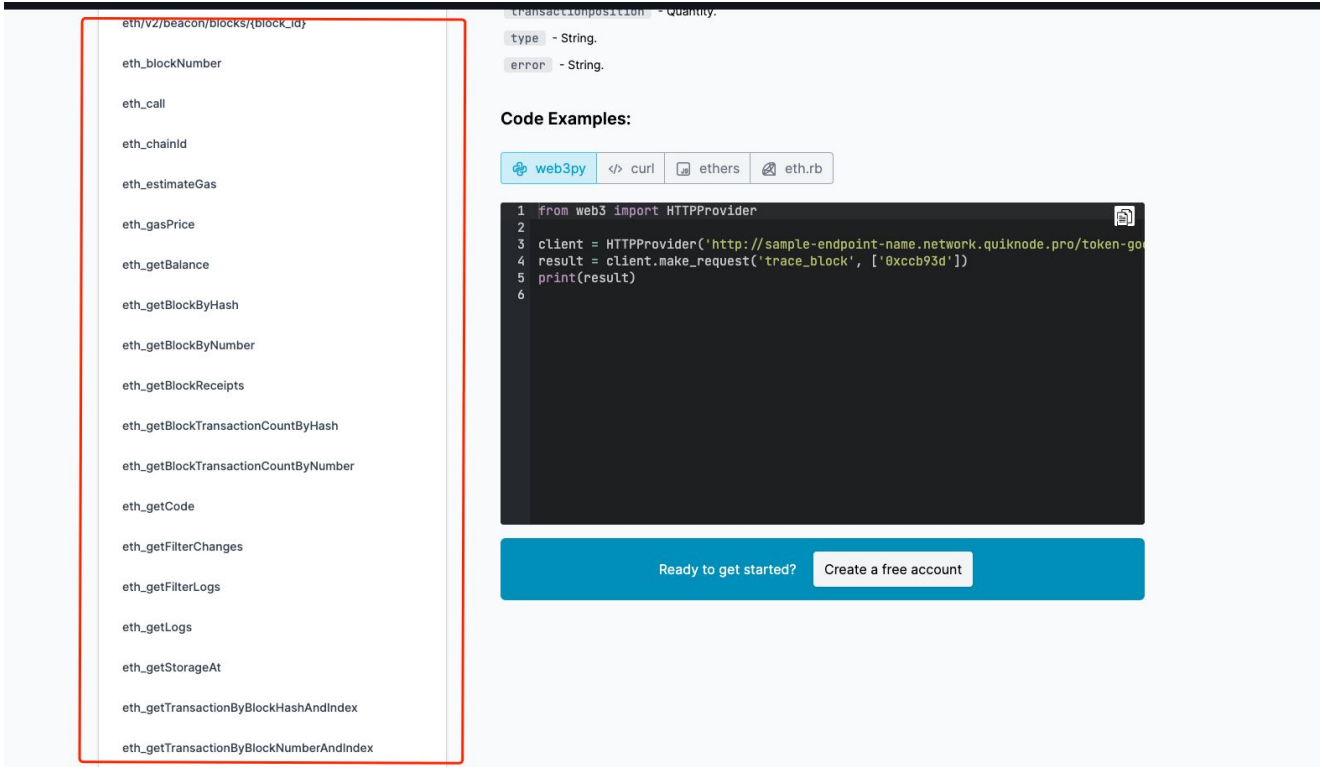
以Quicknode为例



Scenario and case sharing - RPC Provider

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使用RPC Provider 会有哪些限制？

- 数据可读性差：比如你想看某个游 戏NFT的交易量
- 缺乏结构化数据：比如 细分领域的数据，像GameFi用户数据，新增，留存用 户等。
- 全量历史数据：比如某个游 戏历史上所有的token交易量

Scenario and case sharing - Data Platform

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	Name	Logo	Category	Website	Twitter
	BigQuery		Blockchain Data Warehous...	https://console.cloud.google.com/mar...	@GoogleCloud
2	Chainbase		Blockchain Data Warehous...	https://chainbase.online/	@ChainbaseOnline
3	Dune		Blockchain Data Warehous...	https://dune.com/home	@DuneAnalytics
4	Flipside		Blockchain Data Warehous...	https://flipsidecrypto.xyz/	@flipsidecrypto
5	Footprint		Blockchain Data Warehous...	https://www.footprint.network/	@Footprint_Data
6	GeniiData		Blockchain Data Warehous...	https://geniidata.com/	@geniidata
7	Luabase		Blockchain Data Warehous...	https://luabase.com/	@onluabase
8	Numia		Blockchain Data Warehous...	https://numia.xyz/	@NumiaData
9	Space and Time		Blockchain Data Warehous...	https://www.spaceandtime.io/	@SpaceandTimeDB
10	Spice		Blockchain Data Warehous...	https://spice.xyz/	@spice_ai
11	Stacks on Chain		Blockchain Data Warehous...	https://stacksonchain.com/	@anononchain
12	Transpose		Blockchain Data Warehous...	https://www.transpose.io/	@TransposeData
13	Zettablock		Blockchain Data Warehous...	https://www.zettablock.com/	@ZettaBlockHQ

Scenario and case sharing - Data Platform

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下面以Footprint Analytics为例，怎样为Developer提供更好的解决方案

Most Comprehensive Coverage of Chains and Domains

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Footprint Analytics provides a comprehensive, timely and accurate overview of the full blockchain ecosystem

24	700,000+	17
Chains	NFT Collections	NFT Marketplaces
1,987	**519**	**108,005**
GameFi Protocols	DeFi Protocols	Tokens

Chains

BINANCE SMART CHAIN, SOLANA, ethereum, oasys, polygon, Optimism, WAX, HIVE, AVALANCHE, ThunderCore, Moonriver, Moonbeam, IoTeX, celo, boba, DFK Chain, Harmony, fantom, ARBITRUM, EOS, bitcoin, DOGECOIN, cronos, Ronin

Marketplace

OpenSea, X2Y2, SANDBOX, SuperRare, LOOKSRARE, gem, BLUR, element 2.0, ERA7, Aavegotchi, Cryptopunks, Walken, MAGIC EDEN, Rarible, Decentraland

The Footprint Data Model: Versatile and Robust

Built for developers, by developers

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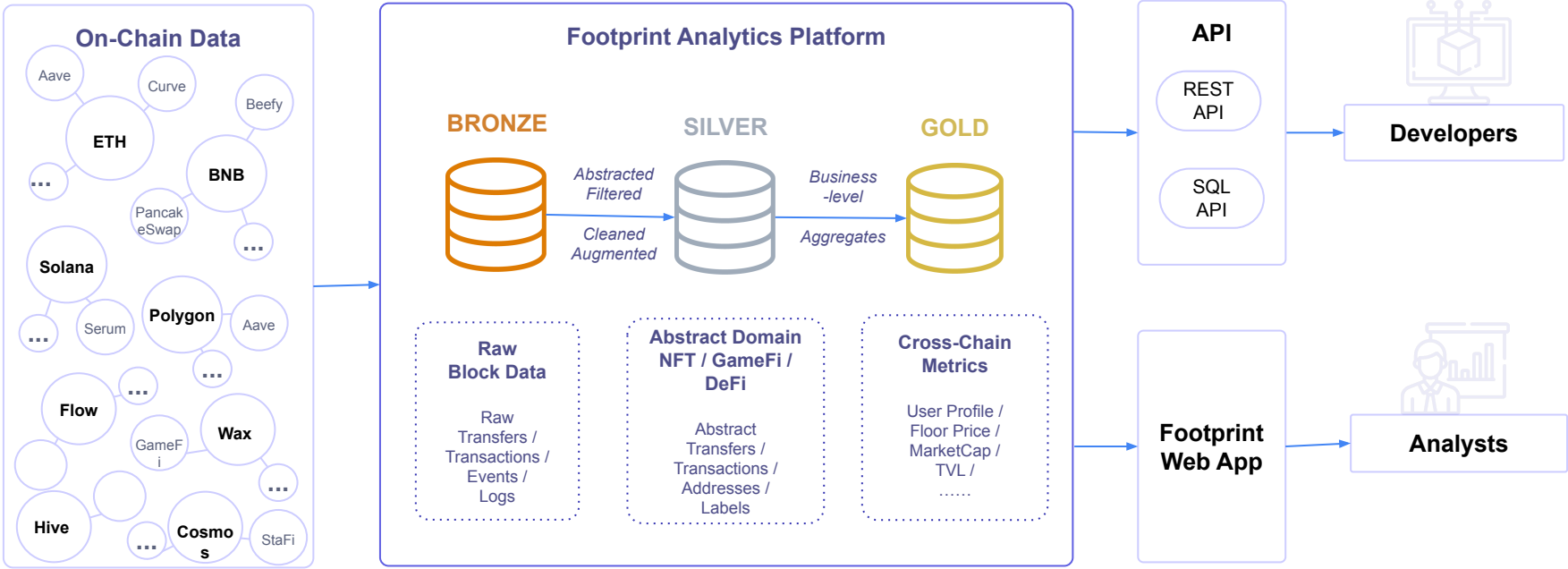

Preview and Visualize Data with Footprint Web App

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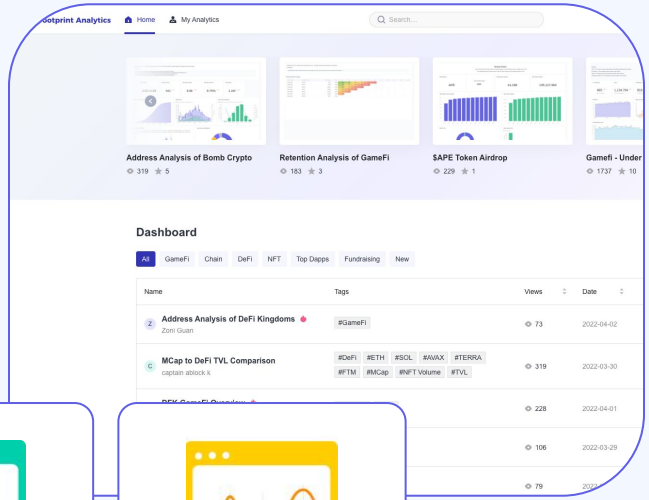
Before programing the SQL API, you can debug your query on Footprint UI

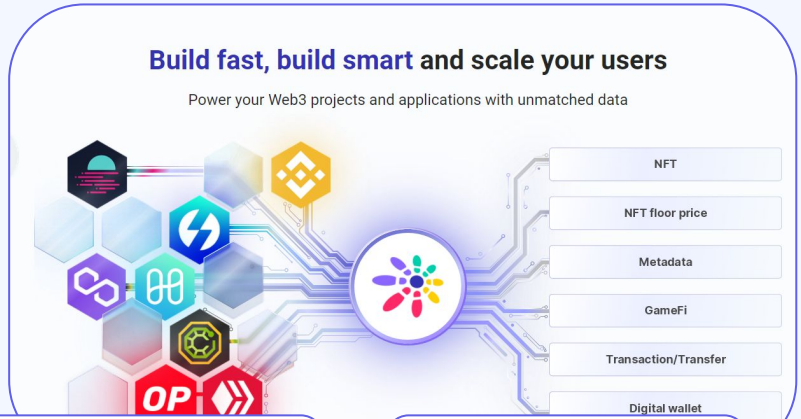
Footprint Web App



SQL Query

No Code

Data API



SQL API
Powerful, Powerful and Powerful

REST API
Super fast and simple

[Try for free]

0代码搭建你的应用 by Footprint Web APP —— 低门槛

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案例分享

门槛 the graph > Dune Analytics > Footprint Analytics

- 0代码构建NFT Marketplace 分析应用：https://www.footprint.network/@0xLam/OpenSea
- 0代码构建GameFi项目分析应用：https://www.footprint.network/@Higi/Era7-Cards-NFT-Collections?game_name=era7-game-of-truth&collection=era7-cards&series_date=past90days
- 0代码构建用户画像分析系统：https://www.footprint.network/@rogerD/Gamer-Profile?wallet_address=0x81e4fb0c64bf49f89b57f6648562fc9a791b2e92
- 0代码构建竞品分析框架：https://www.footprint.network/@0xLam/Walken-vs-StepN?game_a=walken&game_b=stepn&chain=Solana

Try for free

Restful API —— 高兼容性

以获取mutant-ape-yacht-club在各大NFT Marketplace的交易为例
(MAYC collection contract address:0x60E4d786628Fea6478F785A6d7e704777c86a7c6)

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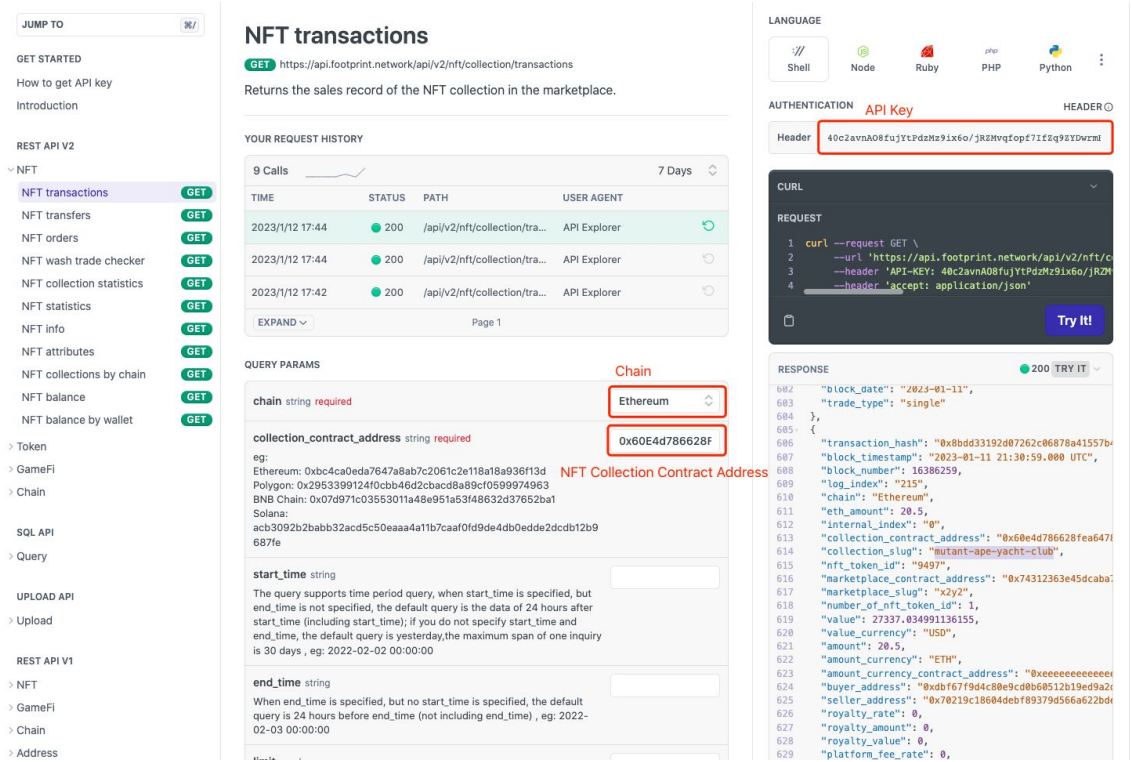

Build your NFT dapps with Footprint, including:

- NFT explorer
- NFT wallets
- NFT trackers
- NFT marketplaces
- NFT games

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SQL API - Customized for Your Needs —— 灵活性

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A flexible SQL API customization for robust requirements

SQL API

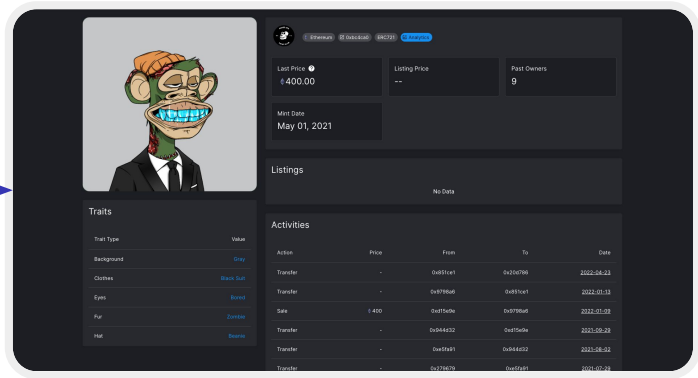
```
import axios from 'axios'

axios.post('https://api.footprint.network/api/v1/native', {
  query: `
    SELECT * FROM (
      SELECT * FROM nft_info
      WHERE collection_contract_address =
'0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d' AND nft_token_id = 1401
    ) a
    LEFT JOIN (
      SELECT * FROM nft_token_attributes
      WHERE collection_contract_address =
'0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d' AND nft_token_id = 1401
    ) b
    ON b.collection_contract_address = a.collection_contract_address AND
b.nft_token_id = a.nft_token_id
    LEFT JOIN (
      SELECT * FROM nft_transfers
      WHERE collection_contract_address =
'0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d' AND nft_token_id = 1401
    ) c
    ON c.collection_contract_address = a.collection_contract_address AND c.nft_token_id
= a.nft_token_id
  `
})
```

Response


```
{
  "chain": "Ethereum",
  "collection_contract_address": "0xbc4ca0eda7647a8ab7c2061c2e118a18a936f
"nft_token_id": "1401",
"collection_slug": "bored-ape-yacht-club",
"collection_name": null,
"token_name": "BoredApeYachtClub #1401",
"description": null,
"image_url": "https://lh3.googleusercontent.com/vqqWQ4eX6zm8KFSRgv4-K6
"mint_transaction_hash": "0x6d5a377ad620edae2d7c54403824c451174ac8dd
"mint_block_timestamp": "2021-05-01T05:36:00.000Z",
"mint_address": "0xc6dc654b5aa7969a24c7e4442a52e61fb8b24827",
"metadata_uri": "https://ipfs.io/ipfs/QmeSjSinHpPnmXmspMjwiXyN6zS4E9zcca
"metadata": "{\"traits\": [{\"trait_type\": \"Clothes\", \"value\": \"Black Suit\"
"internet_mime_type": "image/png",
"animation_url": null,
"attribute_key": "Background",
"attribute_value": "Gray",
"attribute_type": "string",
"block_timestamp": "2022-10-24T00:36:11.000Z",
"transaction_hash": "0x0ffdd35fc0833657098b26264d399a4c2e546c08d9de0b
"log_index": "1401",
"block_date": "2022-10-24",
"block_number": 15814427,
"from_address": "0xd30cad3f023888d5a81580fbb80f93102d69e9ef",
"to_address": "0x4e9fc298bc3d6cb38013b25fd560bca6a18e2ae6",
"amount_raw": 1,
"internal_index": "0",
"transfer_type": "transfer"
}
```


NFT App



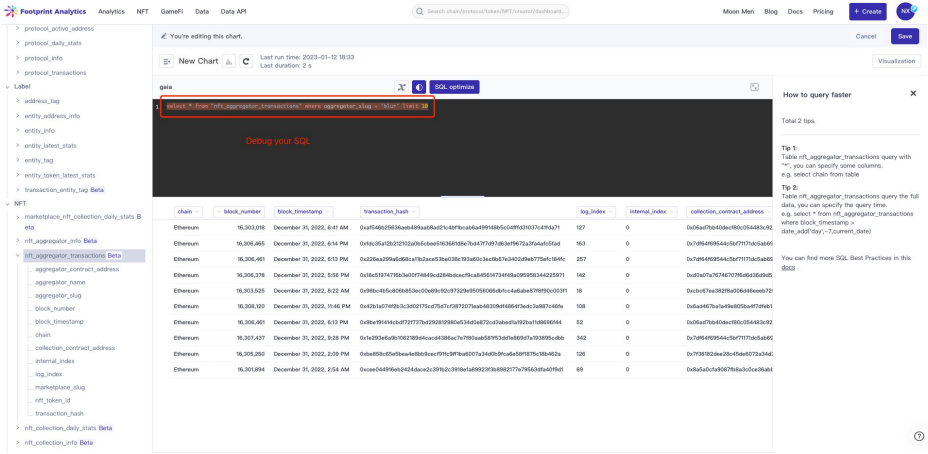
[Try for free]

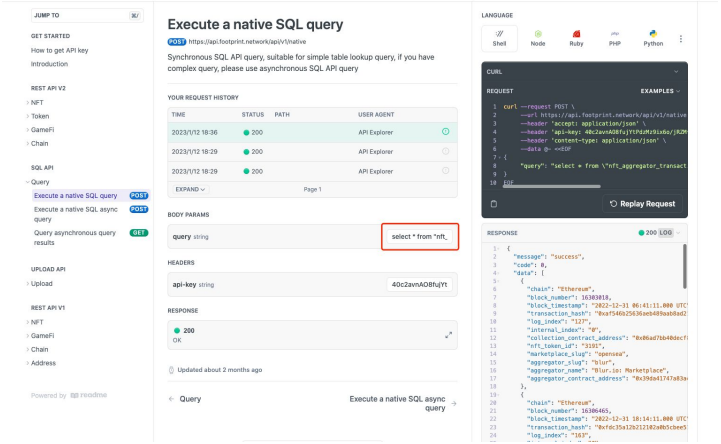
SQL API - Customized for Your Needs —— 灵活性

A flexible SQL API customization for robust requirements

Use Case: 获取NFT 交易聚合器 Blur 的交易数据

select * from "nft_aggregator_transactions" where aggregator_slug = 'blur' limit 10





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Summary

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一款能满足你基本需求和实现你目标的产品只是基准条件，那一款能加速你 build web3项目的产品，更应该拥有的核心特性是什么？

- 低门槛 —— 不管你是小白用户还是专业用户，都能快速的使用起来并快速得到答案
- 高兼容度 —— 支持跨链，EVM和非EVM都能保持统一的结构，降低对接和维护成本
- 高灵活性 —— 你的特定定制需求，不依赖提供商，可以自己掌握主动权

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社区福利

通过这个链接注册，前10名用户可以获得 Footprint 的7天免费 Business plan 和 SQL API试用: https://www.footprint.network/?channel=dev

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Twitter: https://twitter.com/Footprint_Data

Discord: https://discord.com/invite/3HYaR6USM7

Data API: https://www.footprint.network/data-api

Github: https://github.com/footprintanalytics

Email: sales@footprint.network

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