

NEAR + The Graph:

打造完美的

Web3

用户体验



Web3

基础设施



Onchain

Offchain

Textile

Ceramic

Bridges

L2s

Notifications

IPFS

Near

Other L1s

Storage

Video

Web3

搜索与查询

没有The Graph

Blocks

The latest block height is #51769080. Refresh or Click to view the latest data.

#51769076
⌵ 5

#51769075
⌵ 8

#51769074
⌵ 3

#51769073
⌵ 3

#51769072
⌵ 5

#51769071
⌵ 4

#51769070
⌵ 3

#51769069
⌵ 5

#51769068
⌵ 7

[25DsHKT...](#)
Finalized 11s ago

[AI46fpD...](#)
Finalized 12s ago

[BtRMYv3...](#)
Finalized 13s ago

[D3foWrr...](#)
Finalized 15s ago

[6MyY2Y9...](#)
Finalized 16s ago

[DQaWEWH...](#)
Finalized 17s ago

[5A5R4KQ...](#)
Finalized 18s ago

[F3hoqvi...](#)
Finalized 19s ago

[Nn3mCTu...](#)
Finalized 20s ago

Web3

搜索与查询

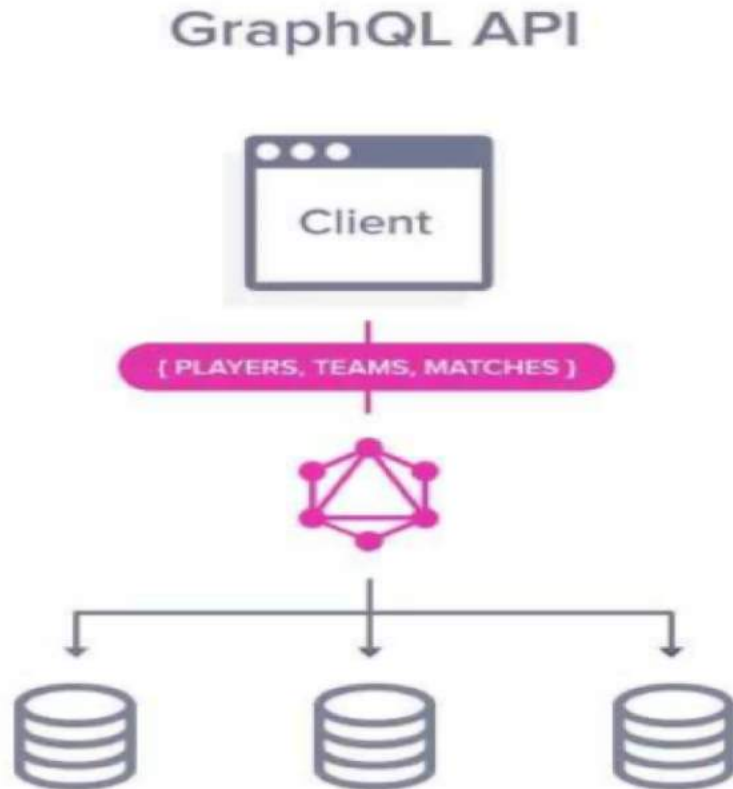
没有The Graph



Web3

搜索与查询

有了The Graph



Web3

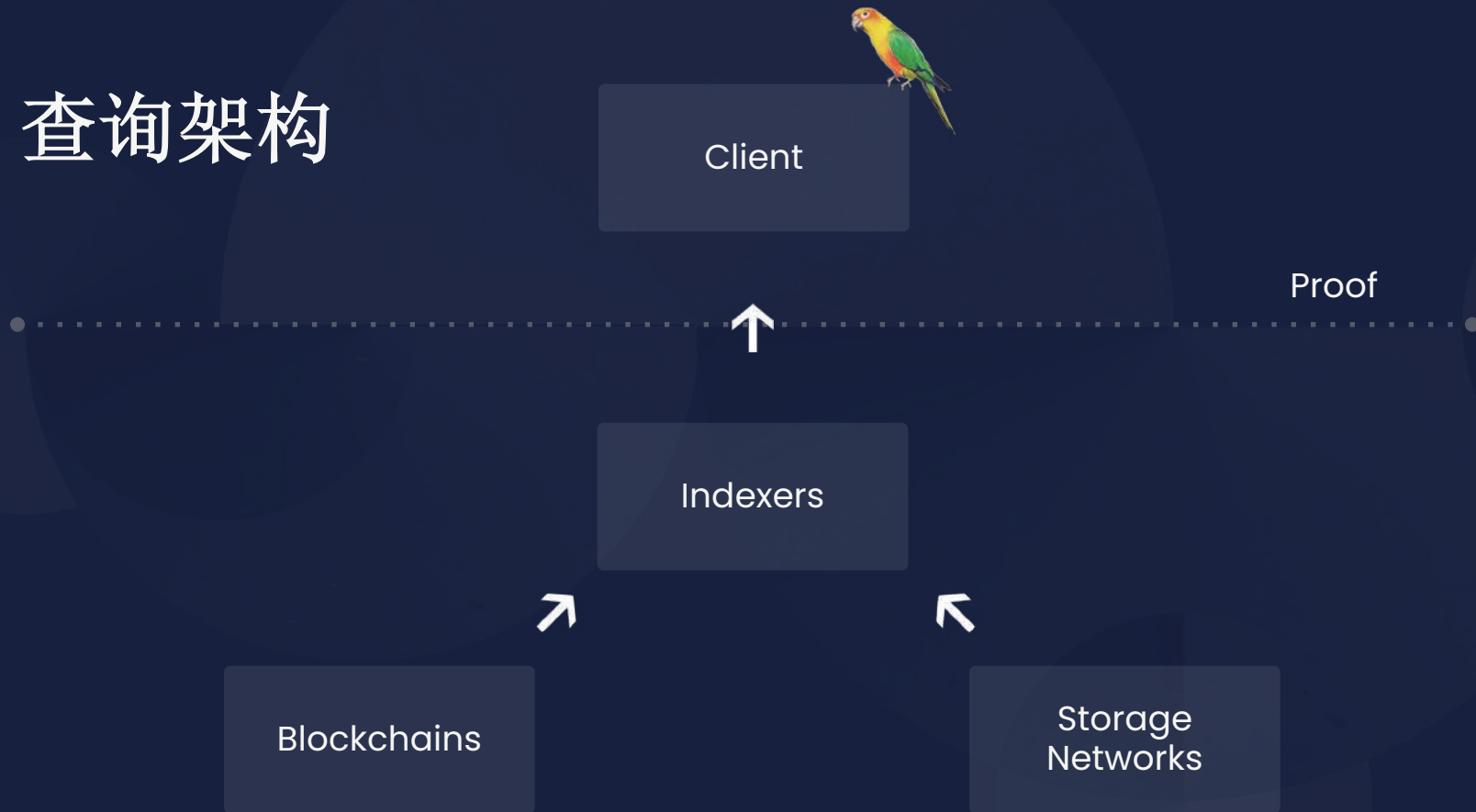
搜索与查询

有了The Graph

```
{  
  hero {  
    name  
  }  
}
```

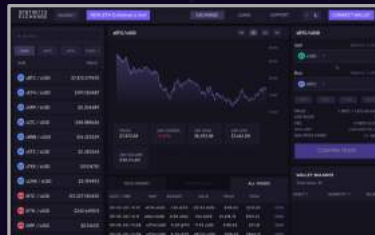
```
{  
  "hero": {  
    "name": "Luke Skywalker"  
  }  
}
```

查询架构

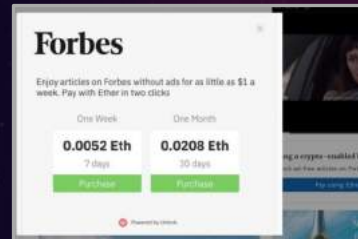


支持各种复杂的去中心化应用

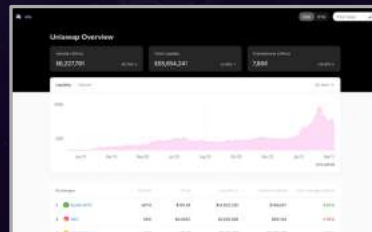
交易数据



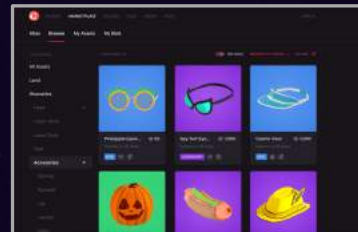
Forbes 订阅数据



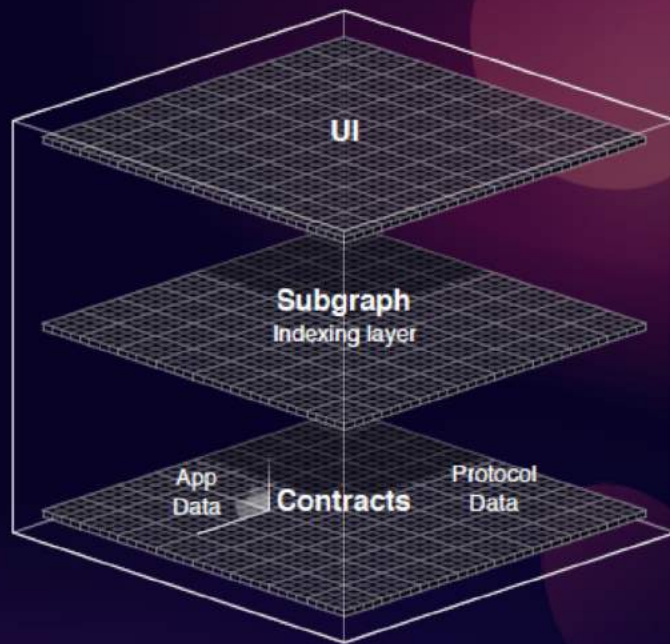
去中心化交易平台



虚拟资产



Web3技术栈 不可或缺的 基础设施



与NEAR强强联手



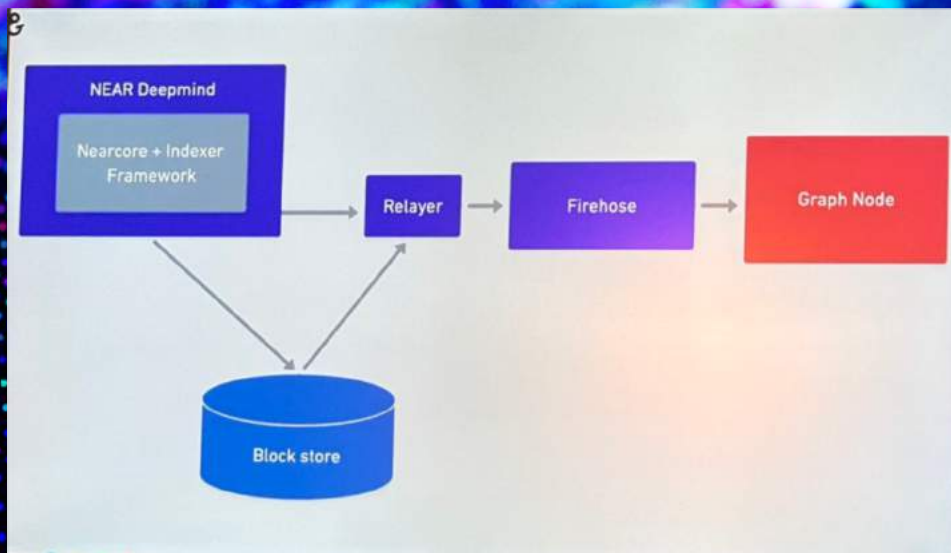
STREAMING
FAST

STREAMING FAST

高速数据架构平台

支持以太坊、EVM 链以及其它多种区块链协议，现为 The Graph 第二核心开发团队





StreamingFast 的 Firehose 架构 实现对 Near Graph 的集成

<https://github.com/streamingfast/sf-near>

<https://github.com/streamingfast/near-dm-indexer>

微信公众号



Twitter
@streamingfastio



Discord



如何在Near上构建Subgraph?

分布式应用

<https://gm-near.surge.sh>

<https://github.com/azf20/near-app-test/tree/gm-near>

robertyan.near says gm

To make use of the gm app on the NEAR blockchain, you need to sign in. The button below will sign you in using NEAR Wallet.

Sign in

Leaderboard

azf.near 11

benjiman.near 4

robertyan.near 4

austinabell.near 3

good-morning.near 3

如何在Near上构建Subgraph?

工具

@graphprotocol/graph-cli

@graphprotocol/graph-ts

<https://thegraph.com/docs/developer/define-subgraph-hosted>



如何在Near上构建Subgraph?

代码

subgraph.yaml

schema.graphql

映射文件

<https://thegraph.com/docs/developer/create-subgraph-hosted>



subgraph.yaml

specVersion: 0.0.2

schema:

file: ./src/schema.graphql *# link to the schema file*

dataSources:

- kind: near

network: near-mainnet

source:

account: app.good-morning.near *# This data source will monitor this account*

startBlock: 10662188 *# Required for NEAR*

mapping:

apiVersion: 0.0.5

language: wasm/assemblyscript

blockHandlers:

- handler: handleNewBlock *# the function name in the mapping file*

receiptHandlers:

- handler: handleReceipt *# the function name in the mapping file*

file: ./src/mapping.ts *# link to the file with the Assemblyscript mappings*

schema.graphql

```
1  type Greeter @entity {
2    id: ID!
3    name: String!
4    greetings: [Greeting!] @derivedFrom(field: "greeter")
5  }
6
7  type Greeting @entity {
8    id: ID!
9    greeter: Greeter!
10   timestamp: BigInt!
11 }
```

映射文件

```
1  import { near, BigInt, log } from "@graphprotocol/graph-ts";
2  import { Greeter, Greeting } from "../generated/schema";
3
4  export function handleReceipt(receipt: near.ReceiptWithOutcome): void {
5      const actions = receipt.receipt.actions;
6      for (let i = 0; i < actions.length; i++) {
7          handleAction(actions[i], receipt.receipt, receipt.block.header);
8      }
9  }
10
11 function handleAction(
12     action: near.ActionValue,
13     receipt: near.ActionReceipt,
14     blockHeader: near.BlockHeader
15 ): void {
16     if (action.kind !== near.ActionKind.FUNCTION_CALL) {
17         log.info("Early return: {}", ["Not a function call"]);
18         return;
19     }
20 }
```

映射文件

```
21     const functionCall = action.toFunctionCall();
22     if (functionCall.methodName == "sayGm") {
23         let greeter = Greeter.load(receipt.signerId);
24         if (greeter == null) {
25             greeter = new Greeter(receipt.signerId);
26             greeter.name = receipt.signerId;
27             greeter.save();
28         }
29
30         const greeting = new Greeting(receipt.id.toBase58());
31         greeting.greeter = greeter.id;
32         greeting.timestamp = BigInt.fromI32(blockHeader.timestampNanosec as i32);
33         greeting.save();
34     } else {
35         log.info("Not processed - FunctionCall is: {}", [functionCall.methodName]);
36     }
37 }
```

完整代码

<https://github.com/graphprotocol/example-subgraph/tree/near-receipts-example>

abis	updated example	3 years ago
bin	abis, bin, contracts, package.json: Update counter contract	3 years ago
contracts	*: Switch to Gravity subgraph as the template	3 years ago
migrations	*: Switch to Gravity subgraph as the template	3 years ago
src	near: remove superfluous log	8 days ago
.gitattributes	Add Solidity syntax highlight.	12 months ago
.gitignore	Initial commit	3 years ago
LICENSE	Initial commit	3 years ago
README.md	near: receipts demo with logging	8 days ago
docker-compose.yml	Remove RUST_LOG	5 months ago
package.json	near: simple blocks subgraph	8 days ago
schema.graphql	near: receipts demo with logging	8 days ago
subgraph.yaml	near: new startBlock	7 days ago
truffle.js	Update truffle.js	3 years ago
yarn.lock	Update -cli/ts from 0.22.0 to 0.22.1	last month

如何在Near上构建Subgraph?

编译

\$ graph codegen

\$ graph build



如何在Near上构建Subgraph?

部署

<https://thegraph.com/hosted-service/dashboard>

<https://thegraph.com/docs/hostedservice/deploy-subgraph-hosted>

CREATE A SUBGRAPH

Step 1

Create

Give the Subgraph a name and a cover image

Add subgraph

Step 2

Install

Install Graph CLI globally using NPM or Yarn so you can build and deploy Subgraphs

Show commands

Step 3

Init

Scaffold a Hello World Subgraph that indexes data off Ethereum mainnet

Show commands

Step 4

Deploy

Deploy your subgraph to the Graph Node and publish it to our community once you are ready

Show commands

如何查询Subgraph?

查询

<https://thegraph.com/hosted-service/subgraph/azf20/good-morning-near?selected=playground>

<https://thegraph.com/docs/hosted-service/query-hosted-service>

Good Morning NEAR

Network	Last updated	Created	Entities
near-mainnet	2 days ago	8 days ago	63

Github

<https://github.com/graphprotocol/example-subgraph/tree/near-receipts-example>

ID

QmR8Lng6AngYkZmwn8GWkPZELbPcFLEwFBiKdnnPHAZjBW

Queries (HTTP)

<https://api.thegraph.com/subgraphs/name/azf20/good-morning-near>

Playground

Logs

Example query

Default

⬆

```
{
  greeters(first: 5) {
    id
    name
    greetings {
      id
    }
  }
  greetings(first: 5) {
    id
    greeter {
      id
    }
    timestamp
  }
}
```

▶

< Schema

> Hide schema

Search...

🔍

Greeter

Greeting

Access to subgraph metadata

Meta

```
{
  "data": {
    "greeters": [
      {
        "greetings": [
          {
            "id":
              "2tdSQFV79BZBNHgb1NwSyc2ZRKPMxJ1CstiegHvDR4Ca"
          },
          {
            "id":
              "6nVMQMku61BCxNPxQTbSdaA8K9SNkJth1z49394uyYAc"
          }
        ]
      }
    ]
  }
}
```


更多信息

<https://thegraph.com/docs/supported-networks/near>

near@thegraph.com



Web3 未来已来

让我们携手共创

