



Lineaⁱ

**Versatile data API,
built for devs.**

NFT owned by single user

```
"rows": [  
  {  
    "nftAddress": "0xfec1140b0f47b4da07087577bc7655a8645372d",  
    "nftName": "Linea Frens",  
    "tokenId": "2313"  
  },  
  {  
    "nftAddress": "0xb62c414abf83c0107db84f8de1c88631c05a8d7b",  
    "nftName": "LineaPunks",  
    "tokenId": "3988"  
  }  
],  
"generatedAt": "2023-07-23T05:53:14.535943544Z",
```

```
$ curl  
  'https://app.senticio.xyz/api/  
v1/analytics/senticio/linea-nf  
t/sql/execute' \  
-H 'api-key:<API-KEY>' \  
--data-raw  
${...<WALLET-ADDRESS>...}' \  
\  
--compressed
```

Full cURL command in comment. Optimized API format is coming soon.

NFT metadata

```
"rows": [  
  {  
    "argMax(normalized_metadata_token_attributes, timestamp)": "[{\"trait_type\":\"Type\",\"value\":\"Male\"},{\"trait_type\"  
    \"argMax(normalized_metadata_token_description, timestamp)": "LineaPunks is a groundbreaking collection of NFTs that draws  
    \"argMax(normalized_metadata_token_image, timestamp)": "ipfs://QmSMRy8uKYHgZgnYyMxyys9MnBr3kTm6X741oZfXhL624/400.webp",  
    \"argMax(normalized_metadata_token_name, timestamp)": "LineaPunks #400",  
    \"max(address)": \"0xb62c414abf83c0107db84f8de1c88631c05a8d7b\",  
    \"name\": \"LineaPunks\",  
    \"tokenId\": \"400\"  
  }  
],  
\"generatedAt\": \"2023-07-22T22:38:22.517808084Z\",
```

```
$ curl 'https://app.sentio.xyz/api/v1/analytics/sentio/linea-nft/sql/execute'  
-H 'api-key:<API-KEY>  
-d '{... tokenId=400 .. address=\"0xb62c414abf83c0107db84f8de1c88631c05a8d7b\"...}'
```

Full cURL command in comment. Optimized API format is coming soon.

User event lookup

Date	Event	Chain	Contract Address
Jul 08 01:05:58.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 02:06:37.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 02:50:40.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 03:05:49.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 03:37:35.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 05:42:29.000	Mint	Linea	0x7b9545c9bd7...b524

```
$ curl 'https://test.sentio.xyz/api/v1/eventlogs/sentio/linea-nft' \
  -H 'api-key:1Lzclxh3Kf51GAjq8KVLud9mBbIHAHF AF' \
  --data-raw '{"...distinct_id:<WALLET-ADDRESS>,...}' \
  --compressed
```

[click here to view](#)

Searchable log for each user event

Date	Event	Chain	Contract Address
Jul 08 01:05:58.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 02:06:37.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 02:50:40.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 03:05:49.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 03:37:35.000	Mint	Linea	0x7b9545c9bd7...b524
Jul 08 05:42:29.000	Mint	Linea	0x7b9545c9bd7...b524



Event Logs V15

INFO July 22, 2023 4:16 PM (6 hours ago)

Search:

General

- Event Name: Transfer 86
- Severity: INFO 86
- Chain: Linea 86
- Contract: ERC721 86
- Address: 86
- Distinct Id: 0x917ebbfd3cc91decf5851d634c558... 86

Event Transfer

Block Number: 30850

Transaction Hash: 0xe95de2e18ee323b2cfb7...92de

Chain Linea

Contract ERC721

Log Index: 42

Distinct Id: 0x917ebbfd3cc91decf585...48fc

Address: 0xa9989b621ce93102c1e...8361

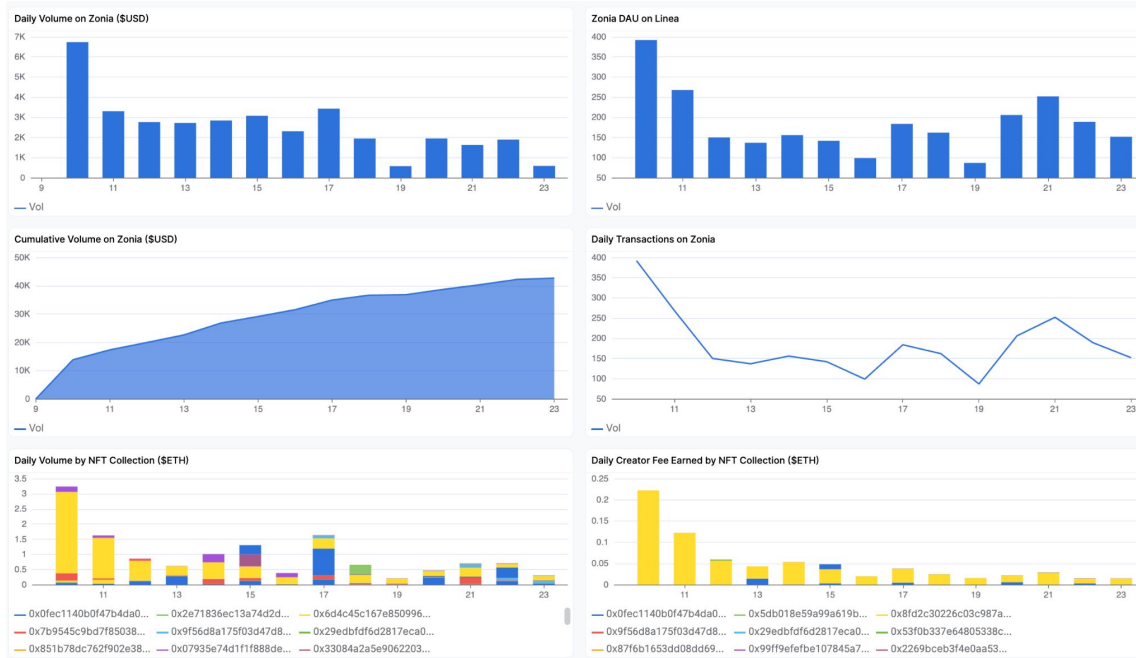
Event Attributes

```

{
  name: Linea Apes
  normalized_metadata_token_attributes: [{"trait_type": "Ape Rarity", "value": "Legend"}, {"trait_type": "Ape Rank", "value": "Samurai Ape"}, {"trait_type": "Abilities", "value": "Teleportation"}, {"trait_type": "Weapon", "value": "Vine Whip"}, {"trait_type": "Mission", "value": "Choreographing a Primate Dance"}]
  normalized_metadata_token_description: Linea Apes # 129
  normalized_metadata_token_image: LNAP
  normalized_metadata_token_name: 0x5142ea17534f75fe5aa0f3db5adf0ff9e0e9817129
  symbol: https://raw.githubusercontent.com/dedubuman/apes/main/214.png
  to:
  tokenId:
  tokenUri: https://raw.githubusercontent.com/dedubuman/apes_metadata/main/129
}
                    
```

[click here to view](#)




NFT marketplace data







[click here to view](#)


User cohort analysis

Accounts

who did  Transfer Total  ...  ×

When 

and did  Transfer Total  ... 

When 

+ Filter Group

 Clear All

[click here to view](#)

Comprehensive NFT analysis in a few clicks



[click here to view](#)



SQL editor for complex queries

SQL Query v21

TABLE SCHEMA

- Transfer
 - address String
 - block_number UInt64
 - chain String
 - contract String
 - distinct_event_id String
 - distinct_id String
 - event_name String
 - from String
 - log_index Int32
 - message String
 - name String
 - normalized_metadata_token_attribute String
 - normalized_metadata_token_descripti String
 - normalized_metadata_token_imageStr String
 - normalized_metadata_token_nameStri String
 - severity String
 - symbol String
 - timestamp DateTime64
 - to String
 - tokenId Decimal256
 - tokenUri String
 - transaction_hash String
- ZonicBasicOrderFulfilled

```
1 SELECT
2   't2.tokenId' as tokenId,
3   't2.name' as 'nftName',
4   't2.address' as nftAddress
5 FROM
6 (
7   SELECT
8     't1.tokenId' as tokenId,
9     max('t1.name') as 'name',
10    't1.address' as address,
11    max('t1.from_new') as 'from_new',
12    max('t1.to_new') as 'to_new',
13    sum('t1.count_new') as 'count_ttl'
14 FROM
15 (
16   SELECT
17     'tokenId',
18     max('name') as 'name',
19     'address',
20     max('from') as 'from_new',
21     max('to') as 'to_new',
22     toInt64 (count(+)) as 'count_new'
23 FROM
```

Run Query Limit 100 00:00:00.363 Export as cURL

Filter results

Showing 2 returned rows in 123 ms Download CSV

tokenId	nftName	nftAddress
2313	Linea Frens	0x0fec1140b0f47b4da07087577bc7655a8645372d
3988	LineaPunks	0xb62c414abf83c0107db84f8de1c88631c05a8d7b

[click here to view, and try export it as cURL](#)

Thanks!

 [sentioxyz](https://github.com/sentioxyz)

 [projects/linea-nft](https://github.com/sentioxyz/projects/linea-nft)



Appendix: code to index data

Devs have the **full flexibility** to define what data to collect.

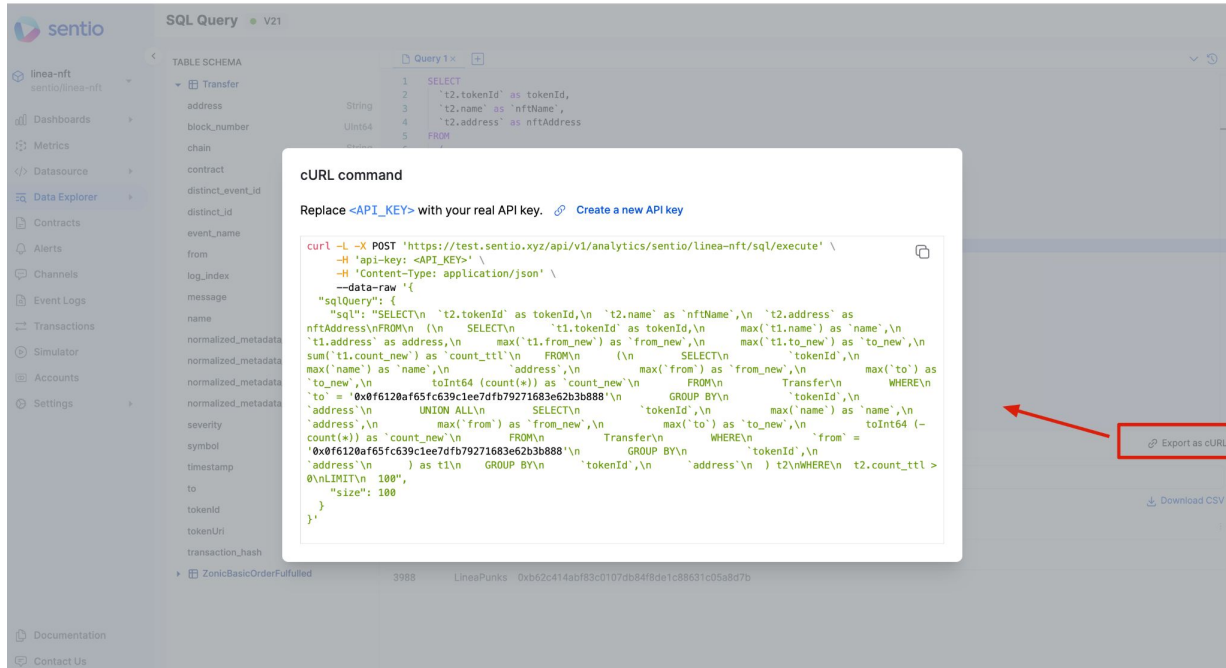
```
NFT_COLLECTIONS.forEach(address => {
  ERC721Processor.bind({
    address: address,
    network: EthChainId.LINEA
  })
  .onEventTransfer(async (event, ctx) => {
    const txHash = event.transactionHash
    const tokenId = Number(event.args.tokenId)

    const nftMetadata = await getOrCreateERC721(address)

    let fetchedMetadata: ERC721Metadata
    let tokenUri
    [fetchedMetadata, tokenUri] = await fetchTokenUri(address, tokenId)

    const from = event.args.from.toLowerCase()
    const to = event.args.to.toLowerCase()
    let eventName = "Transfer"
    if (from == "0x0000000000000000000000000000000000000000") {
      eventName = "Mint"
    }
    if (to == "0x0000000000000000000000000000000000000000") {
      eventName = "Burnt"
    }
    ctx.eventLogger.emit(eventName, {
      distinctId: (eventName == "Mint") ? to : from,
      from,
      to,
      name: nftMetadata.name,
      symbol: nftMetadata.symbol,
      tokenId,
      tokenUri,
      normalized_metadata_token_name: fetchedMetadata.name,
      normalized_metadata_token_description: fetchedMetadata.description,
      normalized_metadata_token_image: fetchedMetadata.image,
    })
  })
})
```

Appendix: Export SQL as cURL



The screenshot displays the Sentio interface with an SQL query editor. A modal window titled "cURL command" is open, showing the following text:

Replace <API_KEY> with your real API key. [Create a new API key](#)

```
curl -L -X POST 'https://test.sentio.xyz/api/v1/analytics/sentio/linea-nft/sql/execute' \
-H 'api-key: <API_KEY>' \
-H 'Content-Type: application/json' \
--data-raw '{
  "sqlQuery": {
    "sql": "SELECT\n `t2.tokenId` as tokenId,\n `t2.name` as `nftName`,\n `t2.address` as\n nftAddress\nFROM\n (\n SELECT\n `t1.tokenId` as tokenId,\n max(`t1.name`) as `name`,\n `t1.address` as address,\n max(`t1.from_new`) as `from_new`,\n max(`t1.to_new`) as `to_new`,\n sum(`t1.count_new`) as `count_ttl`\n FROM\n (\n SELECT\n `tokenId`,\n max(`name`) as `name`,\n `address`,\n max(`from`) as `from_new`,\n max(`to`) as `to_new`,\n toInt64 (count(*)) as `count_new`\n FROM\n Transfer\n WHERE\n `to` = '0x0f6120af65fc639c1ee7dfb79271683e62b3b888'\n `address`\n UNION ALL\n SELECT\n `tokenId`,\n max(`name`) as `name`,\n `address`,\n max(`from`) as `from_new`,\n max(`to`) as `to_new`,\n toInt64 (-\n count(*)) as `count_new`\n FROM\n Transfer\n WHERE\n `from` =\n '0x0f6120af65fc639c1ee7dfb79271683e62b3b888'\n GROUP BY\n `tokenId`,\n `address`\n ) as t1\n GROUP BY\n `tokenId`,\n `address`\n ) t2\nWHERE\n t2.count_ttl >\n 0\nLIMIT\n 100",\n    "size": 100\n  }\n}'
```

A red arrow points from the "Export as cURL" button in the bottom right corner of the interface to the modal window.