



RSK Block Explorer & PySOVRYN Data Library

UI/UX & Python Library Proof of Concept v.2

CONFIDENTIAL

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What We Are Delivering

RSK Explorer: A fresh new RSK block explorer with emphasis on data analytics, ease of use and DeFi perspectives

PySOVRYN: A simple to use Python library that enables data science techniques on the RSK blockchain and SOVRYN artifacts

Key URLs

RSK Explorer: <http://rsk.chainhaus.com>
PySOVRYN: <http://pysovryn.com>

GitHub

RSK Explorer: <http://github.com/jamiels/rsk-explorer>
PySOVRYN: <http://github.com/jamiels/pysovryn>

Live Early Preview
<http://rsk.chainhaus.com>

Note: For demonstrative
purposes only. Uses dummy
data.



We specialize in blockchain, DeFi, data science and machine learning.

We can deliver a **robust user experience** through our understanding of blockchain, DeFi and data science and focus on quality software delivery.

Block Explorer: Work That Remains

Complete UI, UX
Wire data via RSK node (significant effort)
Search engine
Build REST/Websockets API (?)
DB
Wire in CI/CD
Build out auth features
Advanced machine learning and data analytics

PySOVRYN: Work That Remains

Full suite of data retrieval, analytics and
charting

Block Explorer

Menus

Expanded / Collapsed

Dashboard



Prices



Liquidity Pools



Blocks



Transactions



Addresses



Nodes



Tokens



Stats



Block Details

Address Details

Menus

Expanded / Collapsed



Search by address / blo...



Home · **Dashboard**



Transaction Density

Transactions Per Block

3



Blocks



CURRENT BLOCK

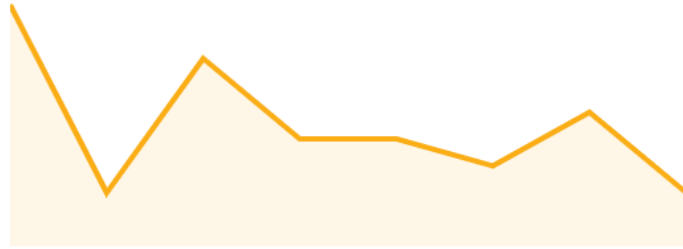
3,470,244

Dashboard

Transaction Density

Transactions Per Block

3



Hashrate

Net EHs

33



BTCs Locked

Locked in 2WP

2,033 RBTC



Blocks

CURRENT BLOCK
3,470,244TRANSACTIONS
2

Height	Transactions	Block Hash	Miner
3,470,244	2	0x37..0253	0x8A..CC3e07
3,470,243	5	0x37..0253	0x8A..CC3e07
3,470,242	3	0x37..0253	0x8A..CC3e07

Transactions

TX VALUE
.01 RBTCTX HASH
0x297c..134ed

TX Hash	Block	From	To
0x297..c134ed	3,470,268	0x000000..0000	0x0000..000008
0x397..c112bf	3,470,268	0x000000..0000	0x0000..000008
0x297..a124ea	3,470,268	0x000000..0000	0x0000..000008



Prices



Home · Prices

BTC	97.20	11.7% ↑	0.00016985
SOV	8.26	67.5% ↓	0.00016985
RSK	5.20	-22.9% ↓	0.00016985
ETH	3.20	-12.3% ↑	0.00016985
BTG	5.64	+4.3% ↑	0.00036234
XRP	6.36	-4.2% ↓	0.00035685
ZEC	6.35	-1.7% ↑	0.00000985
ZCL	1.03	-2.8% ↑	0.00000152

Date: n/a O: n/a H: n/a L: n/a C: n/a Vol: n/a

RSK-USD

Built by Chainhaus

EMA (20) EMA (50)
n/a n/a

Liquidity Pools

(Uniswap shown as an example, can include SOVRYN liquidity pools)

Liquidity Pools

Uniswap

Item		Value
Liquidity	<div><div></div></div>	\$32,076,400
Pools	<div><div></div></div>	3
Other	<div><div></div></div>	Other

Smart Contract Address <https://info.uniswap.org/#/pools/0x3c4323f83d91b500b0f52cb19f7086813595f4c9>

PancakeSwap

Item		Value
Liquidity	<div><div></div></div>	\$32,076,400
Pools	<div><div></div></div>	3
Other	<div><div></div></div>	Other

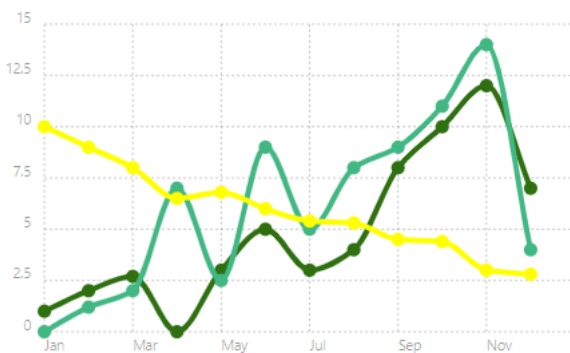
Smart Contract Address <https://info.uniswap.org/#/pools/0x3c4323f83d91b500b0f52cb19f7086813595f4c9>

Stats

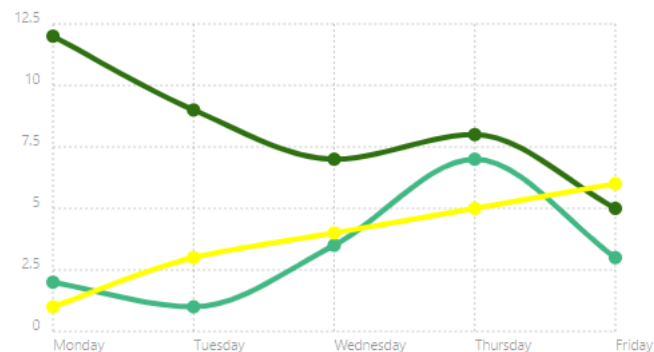
- Dashboard
- Prices
- Liquidity Pools
- Blocks
- Transactions
- Addresses
- Nodes
- Tokens
- Stats**
- Block Details
- Address Details

Home · **Stats**

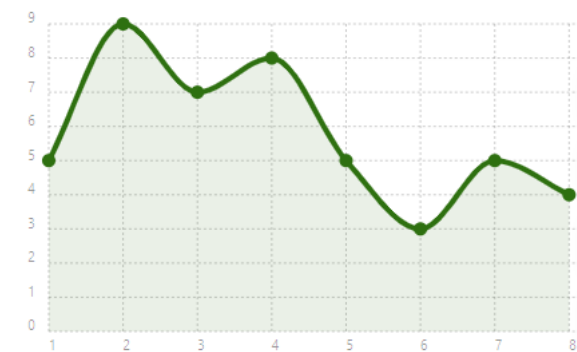
Uncles



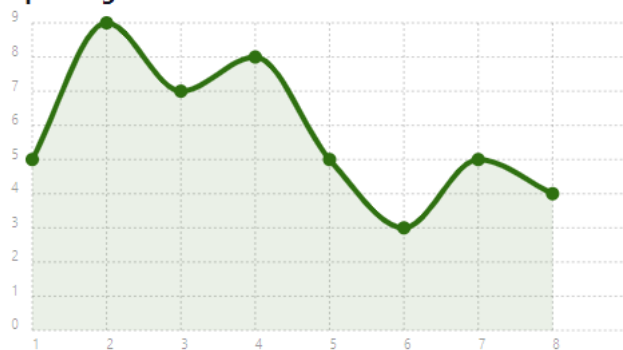
Block Times



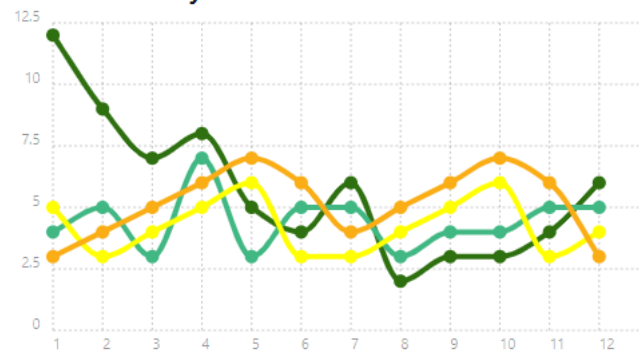
Difficulty



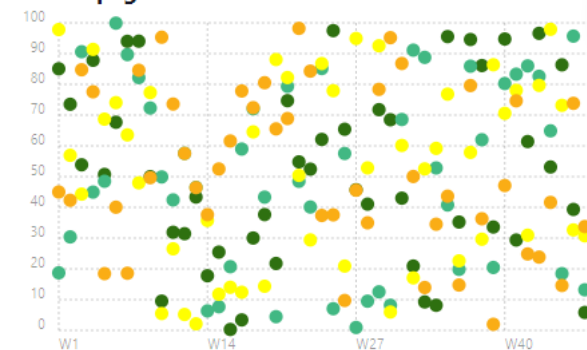
Gas Spending



Transaction Density



Block Propagation



Registered
User

Login / Sign Up / Forgot Password



RSK Explorer **Fluent**

Sign In

Login and password

hello@chainhaus.com / chainhaus123

☒ JWT ☐ Firebase ☐ Auth0 ☐ Strapi

hello@chainhaus.com

.....

Sign in

[Forgot Password?](#)

Create your account

And start spending more time on your projects and less time managing your infrastructure.

Full Name

Email Address

Password

Sign up

By signing up, you agree to the [Terms of Service](#) and [Privacy Policy](#)

Already have an account? [Sign in](#)

Reset Password

Email Address

Reset my password

[← Go to Sign in](#)

Search



Search by address / blo...



Home · **Dashboard**

0x2f..



Search RSK and BTC

Press enter to search

Footer

Dark Mode

Hashrate

Net EHs

33



BTCs Locked

Locked in 2WP

2,033 RBTC



Transactions

TRANSACTIONS
2

TX Hash	Miner
.0253	0x8A..CC3e07

TX VALUE
.01 RBTC

TX Hash	Block	From	To
0x297c..134ed	3,470,268	0x000000..0000	0x0000..000008

Switch Dark / Light Theme

Navigation sidebar with icons for Home, Settings, Profile, and other features.



Dashboard



Prices



Liquidity Pools



Blocks



Transactions



Addresses



Nodes



Tokens



Stats



Block Details

Address Details

Home · Dashboard

Transaction Density

Transactions Per Block

3



Hashrate

Net EHs

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BTCs Locked

Locked in 2WP

2,033 RBTC



Blocks



CURRENT BLOCK

3,470,244



TRANSACTIONS

2

Height	Transactions	Block Hash	Miner
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3,470,243	5	0x37..0253	0x8A..CC3e07
3,470,242	3	0x37..0253	0x8A..CC3e07

Transactions



TX VALUE

.01 RBTC

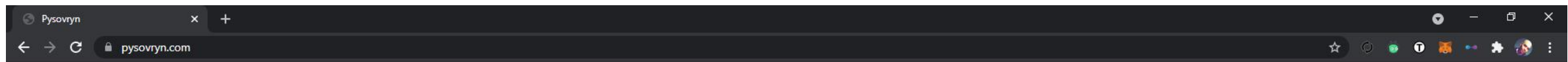


TX HASH

0x297c..134ed

TX Hash	Block	From	To
0x297..c134ed	3,470,268	0x000000..0000	0x0000..000008
0x397..c112bf	3,470,268	0x000000..0000	0x0000..000008
0x297..a124ea	3,470,268	0x000000..0000	0x0000..000008

PySOVRYN



```
pip install pysovryn
```

```
n = RSKNode()  
n.current_block()
```

Output:
3530628

```
sov_lp = LiquidityPool('SOV')
```

```
sov_lp.balances()
```

Output:

```
Contract Balance 517639.12204661
```

```
Staked Balance 517639.12204661
```

```
rBTC Contract Balance 147.34258005
```

```
rBTC Staked Balance 147.34258005
```

```
sov_lp.history()
```

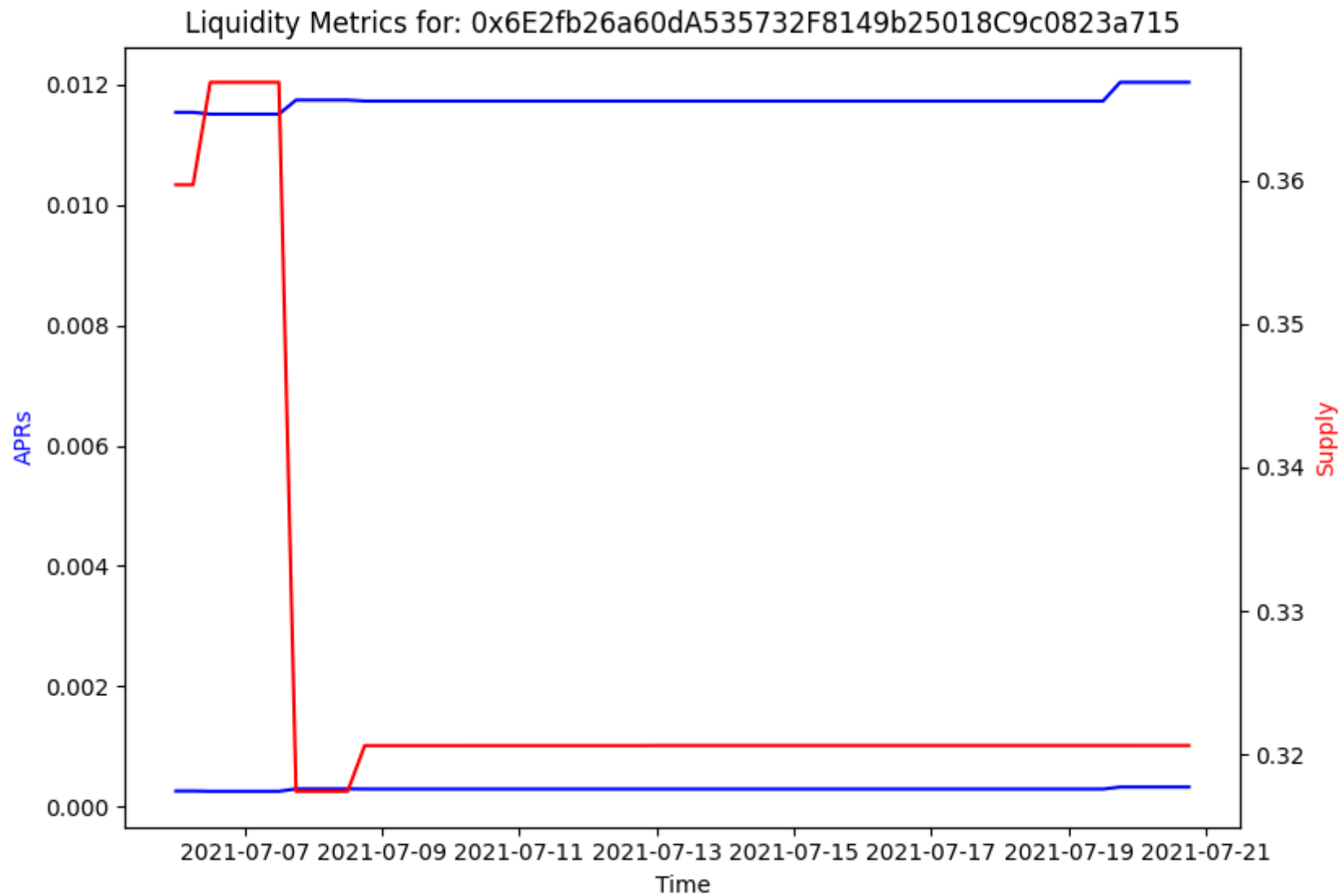
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```

```
sov_lp.chart_history()
```


Figure 1



The use of **PySOVRYN** will unveil data science techniques and opportunities that can then be incorporated into the block explorer

Key Challenges

Still getting used to RSK / SOVRYN
ecosystem

Still learning where all data is residing and
what APIs exist

Next Steps

Continue to build a world class explorer
and data analytics toolkit

Thank **you** & Q&A