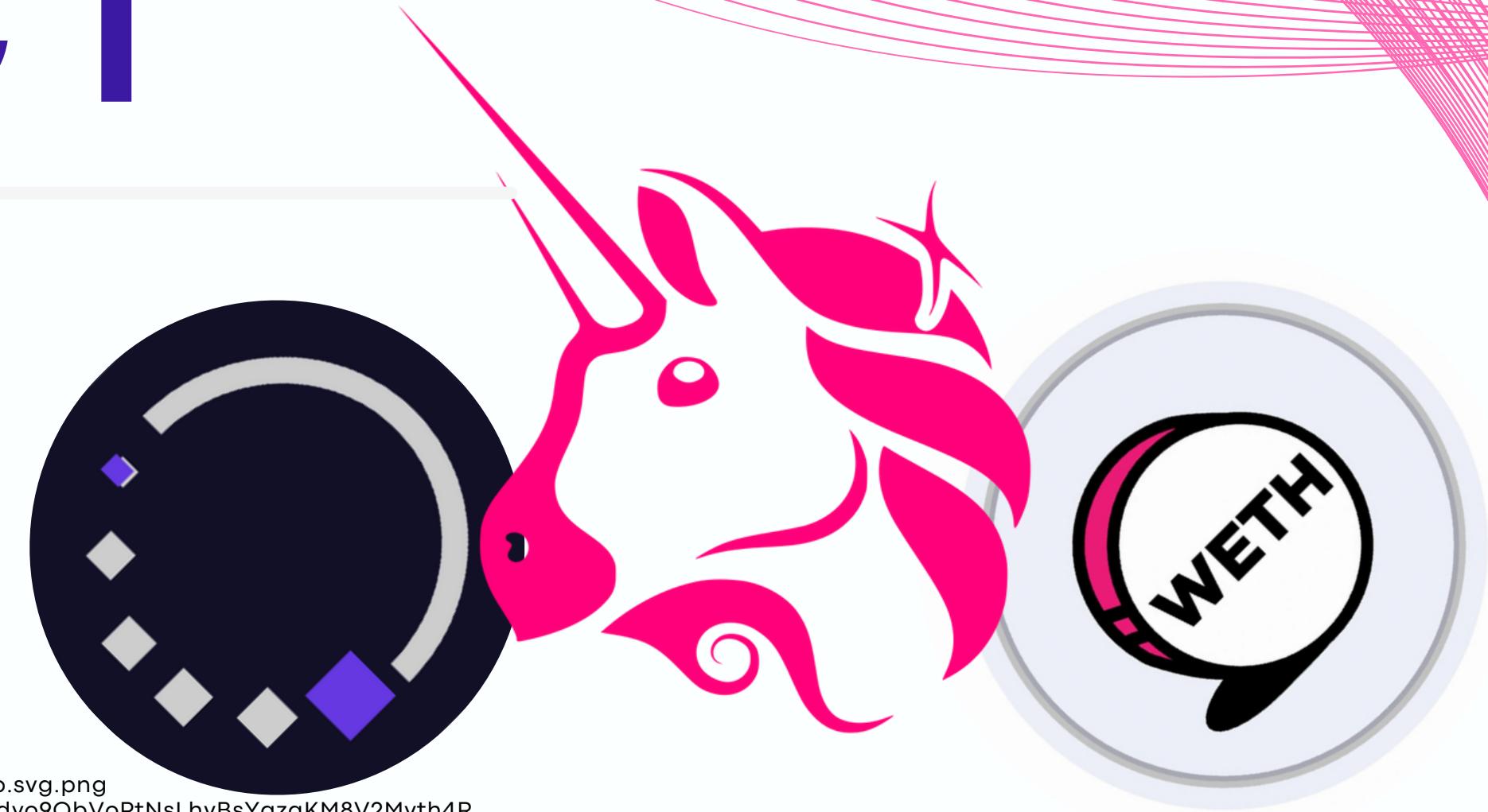


FNCE 559

Dex PROJECT

**Created By: Mushtaba Al Yasseen,
Ayesha Saeed, and Isaacs Adeyemo**



CircleEx's Dark History

CircleEx Timeline

Launched On
February 26, 2021

Testnet Released On
March 2, 2021

Ambitious Plans That Led
To Q4 2021

Quickly Fell Apart After
Fraud Discovery

CircleEx ANN

Dear All,

It has unfortunately come to our attention that a team member (Tony) has been siphoning funds from the exchange and secretly selling. As bad as it sounds, it can be handled by the team without causing a big impact on the business and exchange, we are still calculating the funds stolen but we believe it's around \$90k which we will reimburse to anyone affected. We sincerely apologise for this mishap and assure you that we have full control and will correct everything in the coming days.

Many thanks,

CX Team

380 17:01

<https://t.me/s/circleexann>

https://twitter.com/exchange_circle/status/1365712100841127943?s=19

Google

CircleEx

All Images Maps Videos Shopping More Tools

About 118,000 results (0.17 seconds)

Live Coin Watch
<https://www.livecoinwatch.com/price/CircleEx-CX>

CircleEx (CX) live coin price, charts, markets & liquidity
Track current CircleEx prices in real-time with historical CX USD charts, liquidity, and volume.
Get top exchanges, markets, and more.

CoinCarp
<https://www.coincarp.com/currencies/circleex>

CircleEx price now, Live CX price, marketcap, chart, and info
Get the latest CircleEx (CX) USD price, teams, history, news, richest address, wallets and more to help you with your crypto trading and investing.

CIRCLEEX.

Market Launchpad Airdrop Hub Trade Competition

CircleEX Exchange

First Governance Community Exchange For the community By the Community

Get Started

ETH \$1866.32 +1.26% ETH \$1866.32 +1.26% ETH \$1866.32 +1.26% ETH \$1866.32 +1.26%

CIRCLEEX ROADMAP 2021

Q1

- Platform Launch
- Governance

Q2

- IEO Launchpad
- iOS / Android Apps Beta
- First Buyback and Burn
- Revenue Sharing

Q3

- CircleEx Cloud
- Fiat Integration
- CircleEx Futures

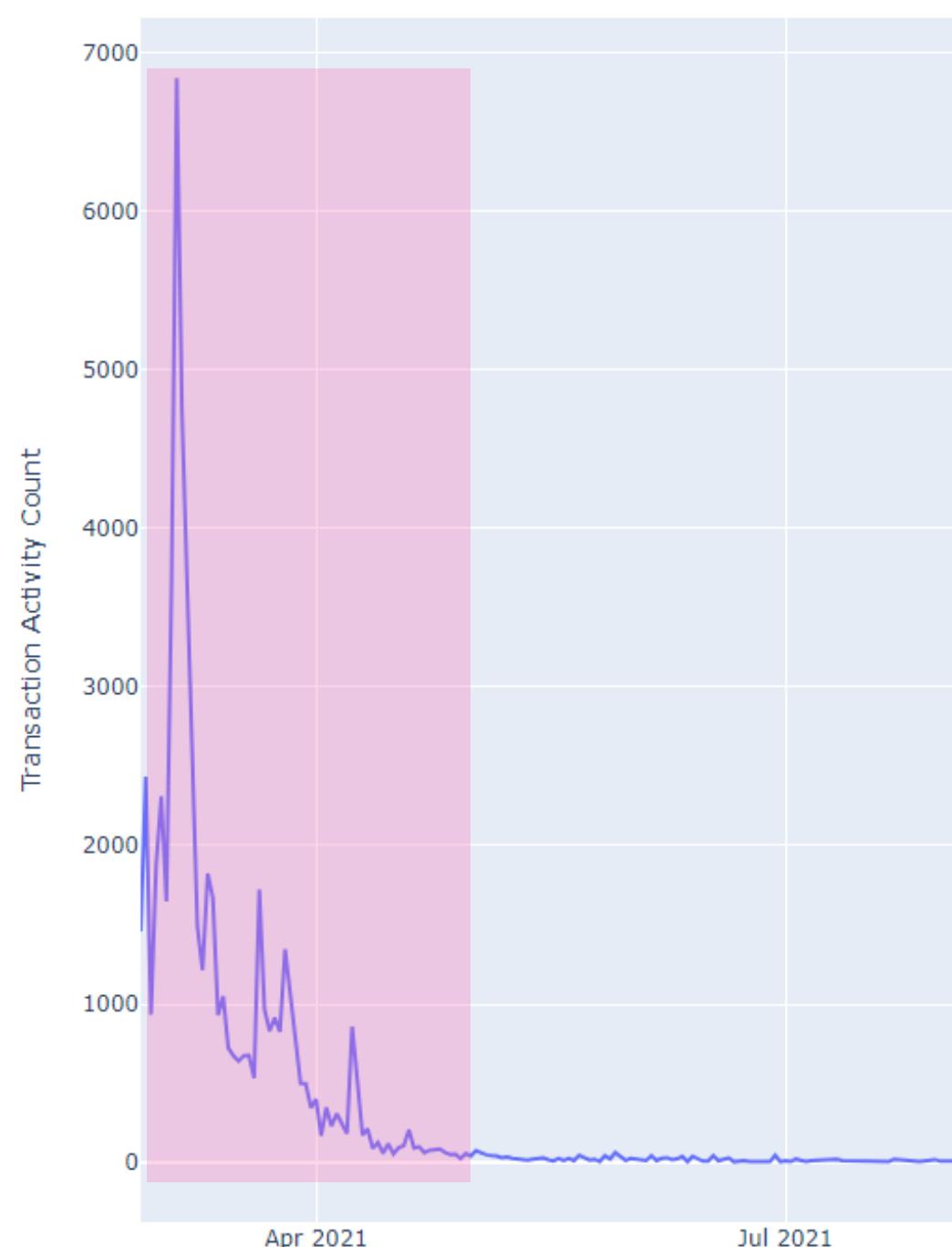
Q4

- P2P Trading
- OTC

CIRCLEEX

Activity Trends Over Time

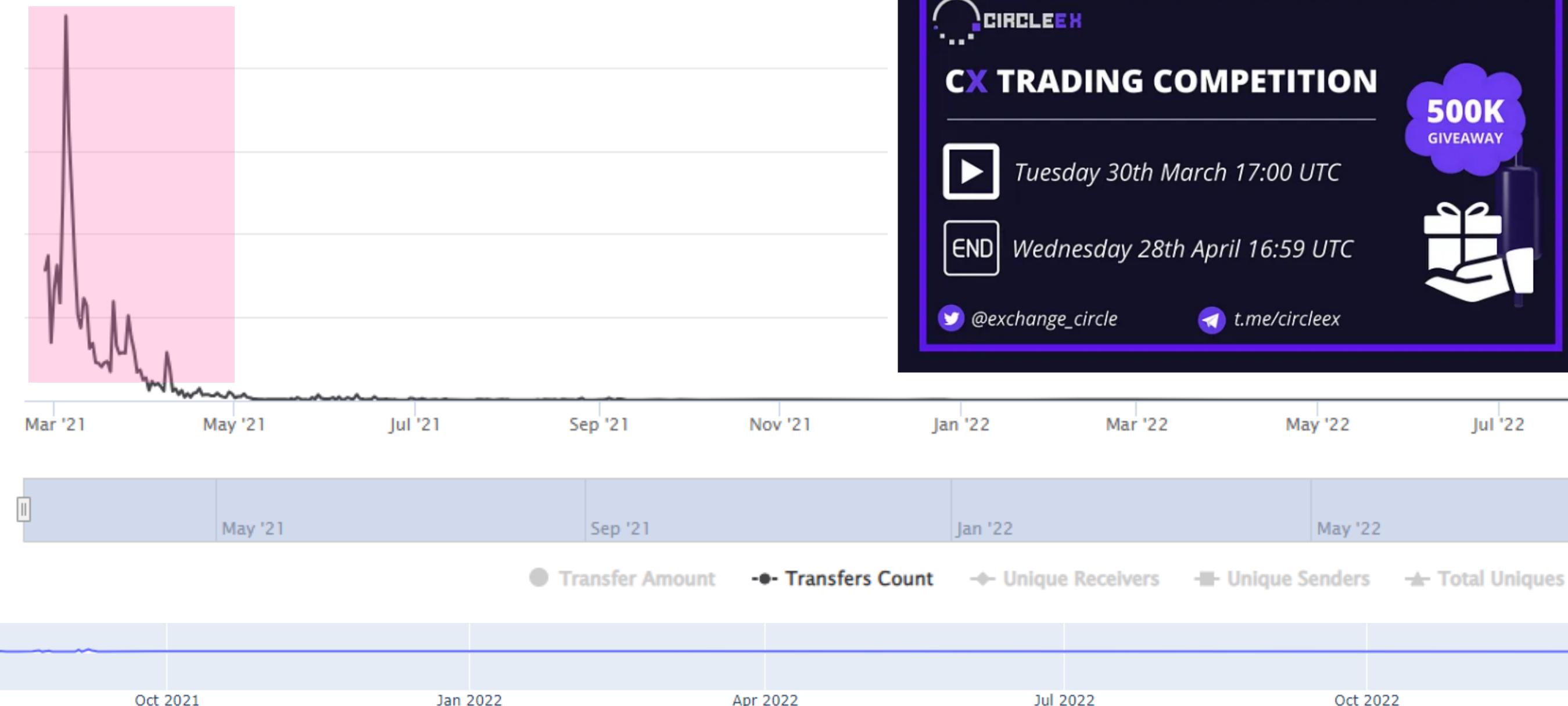
Transaction Event Activity Over Time



Zoom 1m 6m 1y All

Token Contract 0x3f4e02741b155f5ce8d6190d294d4f916125b896 (CircleEx)

Source: Etherscan.io



<https://etherscan.io/token/0x3f4e02741b155f5ce8d6190d294d4f916125b896#tokenAnalytics>

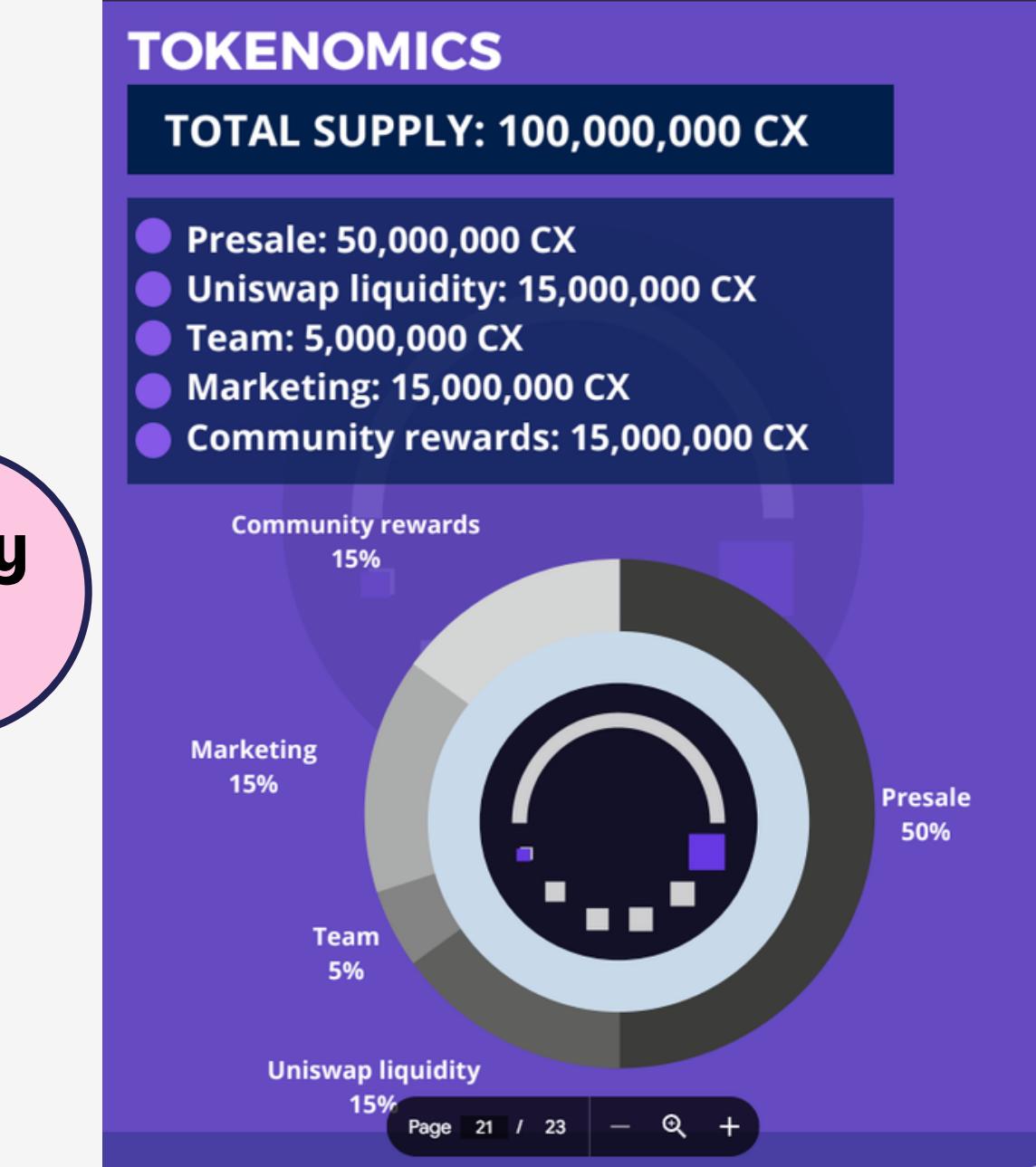
<https://circleex.medium.com/circleex-trading-competition-3501f3ff3434>

Date

Liquidity & Locked TOKENS

Transaction Hash:	0xc544f764efe0c96be5cdd47daf8256d4b8d67648e08361fe7855974d492f2a2e			
Status:	Success			
Block:	11935276 6575603 Block Confirmations			
Timestamp:	982 days 8 hrs ago (Feb-26-2021 09:27:36 PM +UTC)			
Transaction Action:	Supply 15,000,000 CX And 300 ETH Liquidity To Uniswap V2			
Lock Tokens	981 days 12 hrs ago	Circle Exchange: Deployed	OUT	Rainicorn: Vesting
Lock Tokens	982 days 7 hrs ago	Circle Exchange: Deployed	OUT	Rainicorn: Vesting
Lock Tokens	982 days 7 hrs ago	Circle Exchange: Deployed	OUT	Rainicorn: Vesting
Lock Tokens	936 days 11 hrs ago	Circle Exchange: Deployed	OUT	DireWolf: Burn Wallet #2
Lock Tokens	936 days 11 hrs ago	Circle Exchange: Deployed	OUT	DireWolf: Burn Wallet #2
Bulksend Token	920 days 10 hrs ago	Circle Exchange: Deployed	OUT	Bulksender.app

Initial Liquidity Supply



25,000,000 Tokens Locked In Vesting Contract

530,000 Tokens Sent To Winners Of Trade Competition (~8K USD)

14,000,000 Tokens “Locked” By Burning

<https://etherscan.io/tx/0xc544f764efe0c96be5cdd47daf8256d4b8d67648e08361fe7855974d492f2a2e>

https://twitter.com/exchange_circle/status/1375030951588298756

<https://etherscan.io/token/0x3f4e02741b155f5ce8d6190d294d4f916125b896?a=0x176600c6fe1506adcf617e688496011228c279c7>

Gas TRENDS

USDC And
HashPanda
Staking Release

Gas Spent Over Time



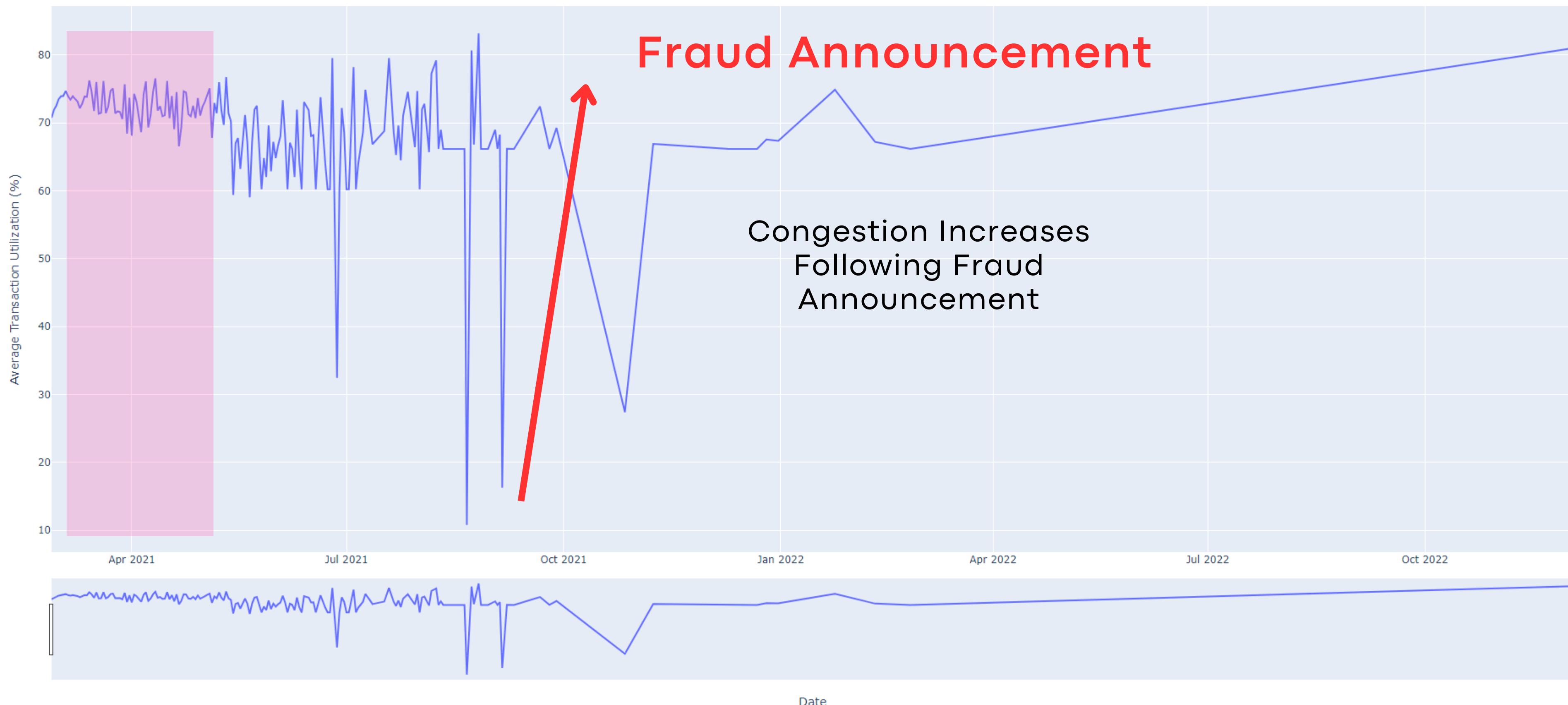
Fraud Announcement

Gas Spent



Gas TRENDS CONTINUED

Gas Utilization By Transaction



Trends/ Statistics

MOST FREQUENT TOPIC0X

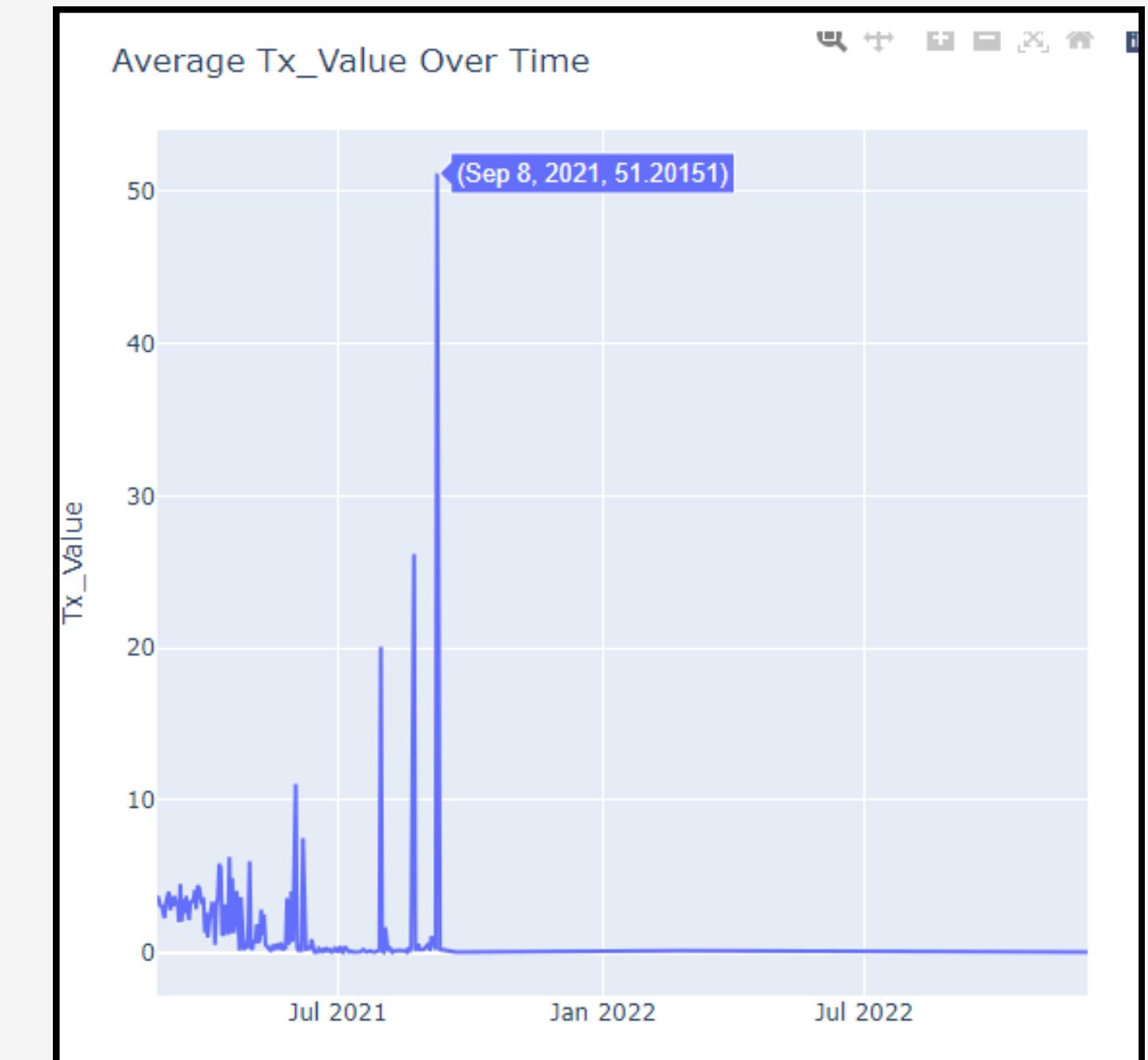
Topic0x	Count
DDF252AD1BE2C89B69C2B068FC378DAA952BA7F163C4A11628F55A4DF523B3EF	23653
1C411E9A96E071241C2F21F7726B17AE89E3CAB4C78BE50E062B03A9FFFBBAD1	12967
D78AD95FA46C994B6551D0DA85FC275FE613CE37657FB8D5E3D130840159D822	12956
8C5BE1E5EBEC7D5BD14F71427D1E84F3DD0314C0F7B2291E5B200AC8C7C3B925	4904
E1FFFCC4923D04B559F4D29A8BFC6CDA04EB5B0D3C460751C2402C5C5CC9109C	3886
7FCF532C15F0A6DB0BD6D0E038BEA71D30D808C7D98CB3BF7268A95BF5081B65	2544

MOST FREQUENT LOG EMITTERS (TOKEN CONTRACTS)

Token contract	Used Count
B9CB192B42FE777BAD5EB8E183DAF93591DA3C19	19973
C02AAA39B223FE8D0A0E5C4F27EAD9083C756CC2	16458
3F4E02741B155F5CE8D6190D294D4F916125B896	14123
B4E16D0168E52D35CACD2C6185B44281EC28C9DC	640
0D4A11D5EEAAC28EC3F61D100DAF4D40471F1852	628
A0B86991C6218B36C1D19D4A2E9EB0CE3606EB48	385
DAC17F958D2EE523A2206206994597C13D831EC7	332
EEDCD34ACD9F87AAE1EB47F06E42868E81AD2924	288
0000000000004946C0E9F43F4DEE607B0EF1FA1C	224
F9FBAEFDE7112F78FA9BFE813341F0F49F888CB3	217

Average Tx_Value VS TIME

- Tx_Value = Data0 column of “DDF2...” topic 0x (Transfer events)
- Only showing Tx_Values < 100
 - Ensures most values are in ETH
- Outlier:
 - September 8, 2021
 - ~51 ETH and ~25,317,932.6267... was withdrawn from liquidity
 - Worth around ~350k USD both combined.
- Reasons for this occurrence? Two possibilities:
 - (1) The scammer withdrew the tokens
 - or (2) The moderators withdrew the liquidity to refund everyone.



0x70590ce993281c89...	Remove Liqui...	787 days 19 hrs ago	Uniswap V2: CX	IN	Null: 0x000...000	33,541.039324993690891275
0xf5f0c8ba74cae1c60...	Remove Liqui...	788 days 1 hr ago	Uniswap V2: CX	IN	Null: 0x000...000	33,541

- ▶ From 0xDEfE3...5036B7ba To Uniswap V2: CX For 33,541 ⚡ Uniswap V2... (UNI-V2...)
- ▶ From Uniswap V2: CX To Null: 0x000...000 For 33,541 ⚡ Uniswap V2... (UNI-V2...)
- ▶ From Uniswap V2: CX To Uniswap V2: Router 2 For 25,317,932.626779797410267993 ⓘ \$173,589.25 ⚡ CircleEx... (CX...)
- ▶ From Uniswap V2: CX To Uniswap V2: Router 2 For 51.201483225365001644 ⓘ \$179,545.59 ⚡ Wrapped Ethe... (WETH...)
- ▶ From Uniswap V2: Router 2 To 0xDEfE3...5036B7ba For 25,317,932.626779797410267993 ⓘ \$173,589.25 ⚡ CircleEx... (CX...)

Average Tx_Value VS TIME

- Scam Incident:
- **Found on September 8, 2021**
- Withdraws and refunds started on September 11th and ended on November 6, 2021.
- Reported that \$90k funds were stolen
- Refunds were done through Binance.
- A team member, Tony, was found siphoning funds.

⌚ 729 days 14 hrs ago (Nov-07-2021 12:15:06 AM +UTC)

- ▶ From [0x02A6C3...3d172E15](#) To Multisender.app: Old Contract For 74,053.9401552 (\$74,202.05) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xCaD6B6...8909534D](#) For 7,308.871074 (\$7,323.49) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0x67dd20...5f84B850](#) For 1,284.861263 (\$1,287.43) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xf5b331...42724E36](#) For 1,050 (\$1,052.10) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xA8AA8E...c32A778a](#) For 982.625 (\$984.59) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0x87c9a9...5Ca8B772](#) For 957.0963975 (\$959.01) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xd1E7C4...0C0bd647](#) For 845.9843234 (\$847.68) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0x3243a6...6afDbD5c](#) For 751.1771147 (\$752.68) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xaa91fc...C408b3EE](#) For 708.1814459 (\$709.60) ⓘ Binance-Peg ... (BSC-US...)

<https://t.me/s/circleexann>

<https://bscscan.com/tx/0x47856a87cb6d577045b64f1b24f542101a4238f9945604d2846d0214dfc4ad06>

<https://bscscan.com/tx/0x4f3b124fdab695153bda2bee04a93d477e6cecaab1a66068dc2b1c8105adf516>

CircleEx ANN

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It has unfortunately come to our attention that a team member (Tony) has been siphoning funds from the exchange and secretly selling. As bad as it sounds, it can be handled by the team without causing a big impact on the business and exchange, we are still calculating the funds stolen but we believe it's around \$90k which we will reimburse to anyone affected. We sincerely apologise for this mishap and assure you that we have full control and will correct everything in the coming days.

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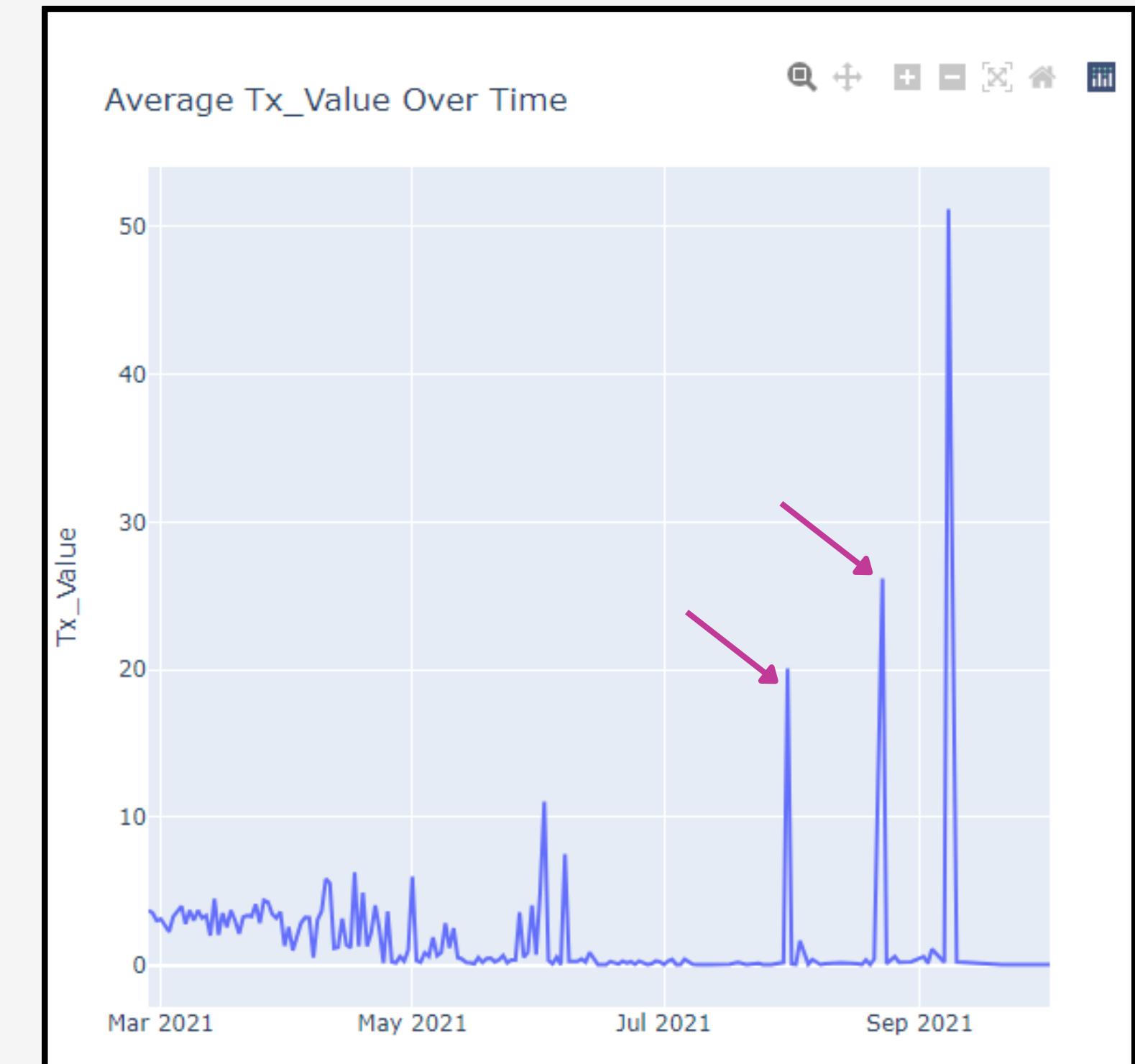
⌚ 746 days 16 hrs ago (Oct-20-2021 10:06:53 PM +UTC)

- ▶ From [0x02A6C3...3d172E15](#) To Multisender.app: Old Contract For 8,608.12 (\$8,625.34) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0x638086...A976FC6e](#) For 1,151 (\$1,153.30) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xE63C8e...F17760c1](#) For 387 (\$387.77) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xf28e78...8d99EAf9](#) For 22 (\$22.04) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xe86b65...aC39639A](#) For 11 (\$11.02) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xDF0175...AF16566B](#) For 43.5 (\$43.59) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0x5b756f...4941B7CF](#) For 2 (\$2.00) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0x20Ae2c...39976F52](#) For 2.6 (\$2.61) ⓘ Binance-Peg ... (BSC-US...)
- ▶ From Multisender.app: Old Contract To [0xAA1493...aBd53138](#) For 0.26 (\$0.26) ⓘ Binance-Peg ... (BSC-US...)

⌄ Scroll for more

Average Tx_Value VS TIME

- Next two Peaks:
- August 23, 2021:
 - Involved small amount of money.
 - Involved 78 Metawhale tokens that caused the peak.
- July 31, 2021:
 - 40,157,036,324 King Vitalik Tokens caused the peak.
 - 40,157,036,324 was converted to 40.15... in the graph.



LOOKING FOR IRREGULAR SWAP EVENTS

LARGE TOKEN AMOUNTS IN AND SMALL TOKEN AMOUNTS OUT AND VICE VERSA

- Most interactions didn't mean much. They were all mostly gains or losses.
- There were some occurrences with high losses but these could have been for several reasons.
 - The user probably swapped it for something they thought would gain higher value.
 - Could be arbitrage activities where they are trying to benefit from price differences even with temporary losses.
 - Funds could be used for other purposes.

A7555660B6C6A4D771DA2954B1D9324759D79DA1BDDBA5EA01D64DD976EE852C, 2021-03-06
05:40:51, 8.0, 100952.40573943149

ERC-20 Tokens Transferred: 2

All Transfers Net Transfers

From Uniswap V2: Router 2 To Uniswap V2: CX For 8 ⓘ \$13,292.62 ⓘ Wrapped Ether... (WETH...)

From Uniswap V2: CX To 0x805Ada...3dA45f4D For 100,952.405739431487017044 ⓘ \$8,189.01 ⓘ CircleEx... (CX...)

0FEA65B4B8D106FBBEE9C0CA2434EBAE8B2DCFBA941B3A933E92ED11DF649747, 2021-03-21
07:06:40, 5.63545708215334, 100490.30049192764

ERC-20 Tokens Transferred: 3

All Transfers Net Transfers

From 0x98Ecf9...d5fD8BC8 To Uniswap V2: CX For 239,378.97378451498773887 ⓘ \$20,540.25 ⓘ CircleEx... (CX...)

From Uniswap V2: CX To Uniswap V2: JUP For 5.635457082153339776 ⓘ \$10,074.14 ⓘ Wrapped Ether... (WETH...)

From Uniswap V2: JUP To 0x98Ecf9...d5fD8BC8 For 100,490.30049192764498575 ⓘ \$12,055.27 ⓘ Jupiter... (JUP...)

EA75599229F2EA03CAB5C88CD382AD183D3E99B165EF1D424F01ACC3C398085B, 2021-03-12
02:31:09, 2.4130488731617197, 14770.447002153538

From 0x7D7374...c7c223d0 To Uniswap V2: CX For 90,715 ⓘ \$3,604.86 ⓘ CircleEx... (CX...)

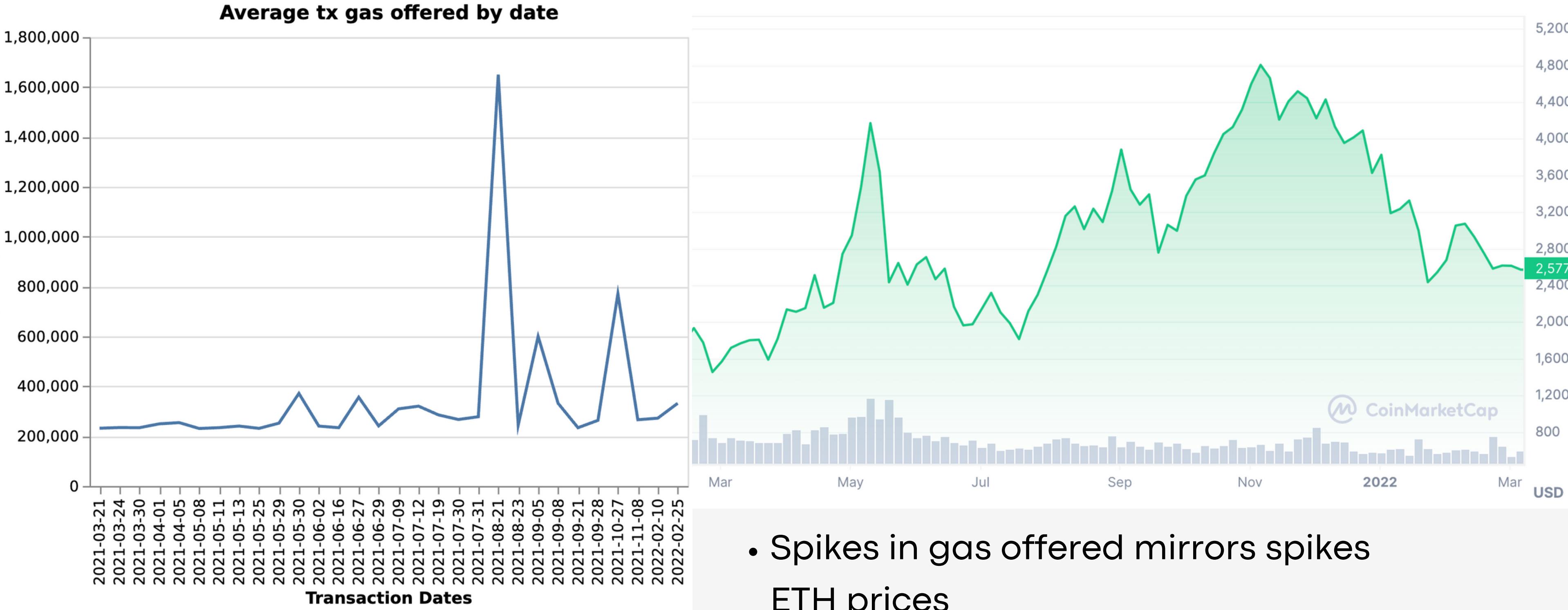
From Uniswap V2: CX To Uniswap V2: ZERO 3 For 2.41304887316171959 ⓘ \$4,269.73 ⓘ Wrapped Ether... (WETH...)

From Uniswap V2: ZERO 3 To 0x7D7374...c7c223d0 For 14,770.447002153537965296 ⓘ \$5,094.27 ⓘ Zero.Exchange... (ZERO...)

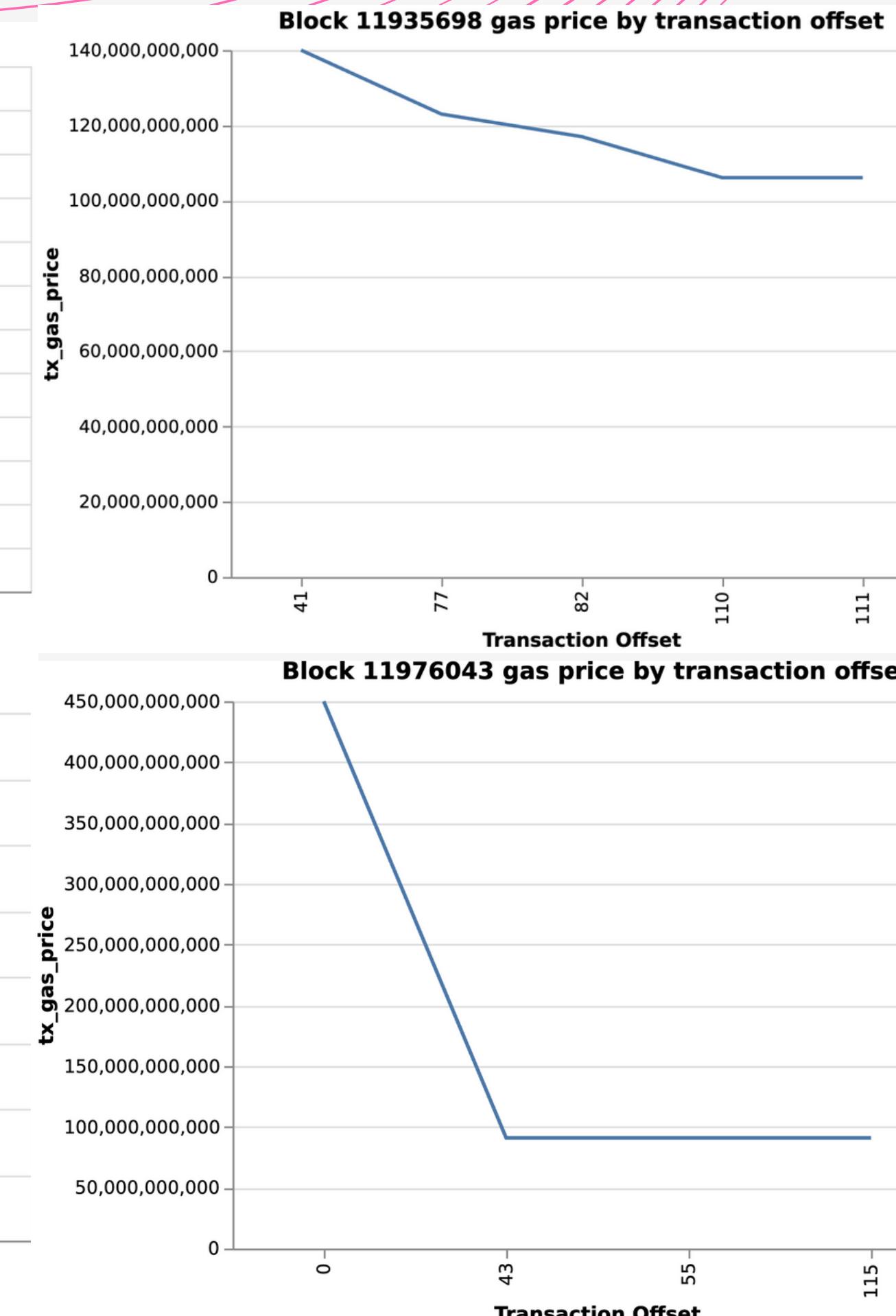
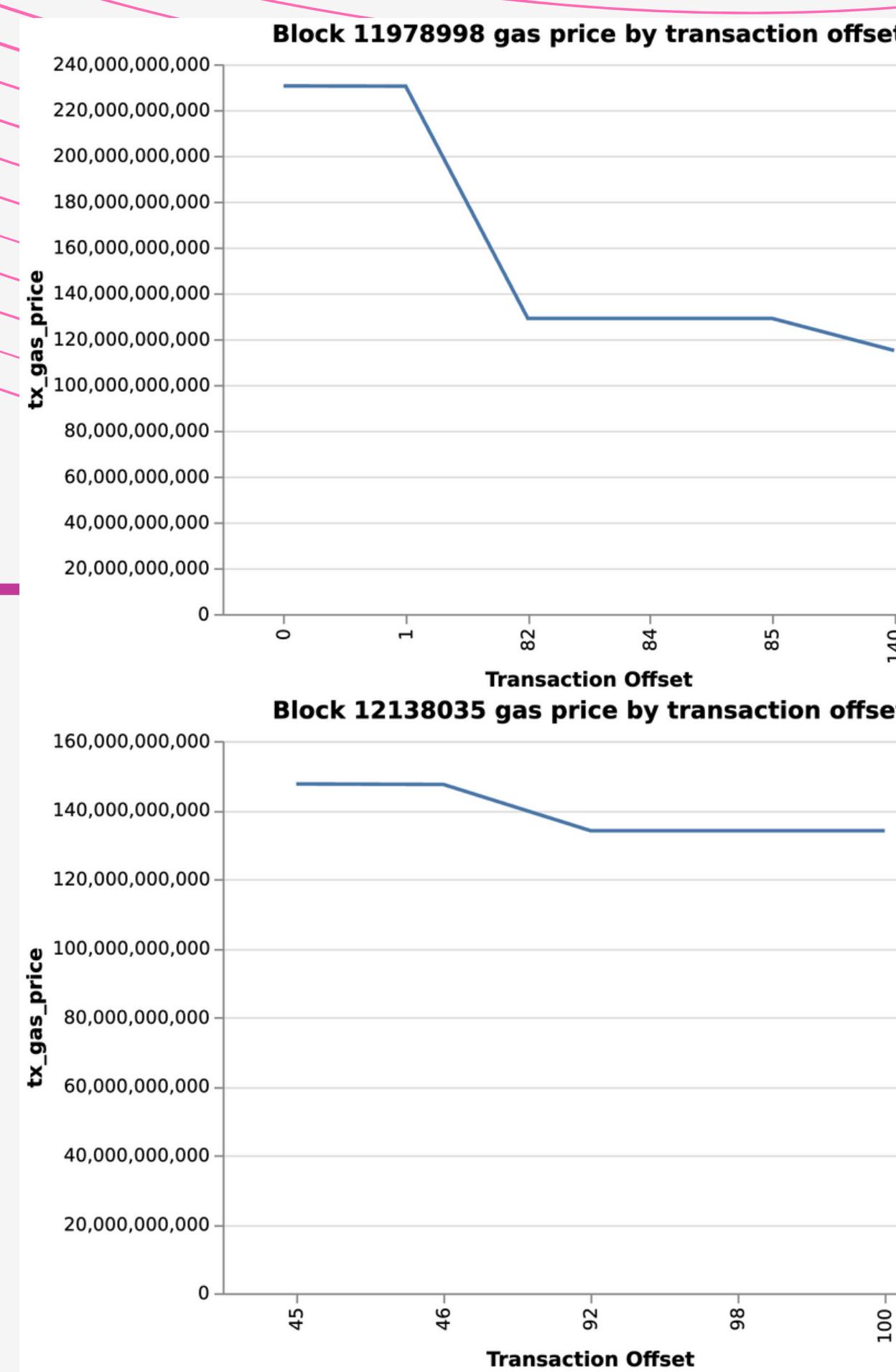
[https://etherscan.io/token/0x3f4e02741b155f5ce8d6190d294d4f916125b896?
g=0x176600c6fe1506qdct617e688496011228c279c7](https://etherscan.io/token/0x3f4e02741b155f5ce8d6190d294d4f916125b896?g=0x176600c6fe1506qdct617e688496011228c279c7)
<https://etherscan.io/tx/A7555660B6C6A4D771DA2954B1D9324759D79DA1BDDBA5EA01D64DD976EE852C>
<https://etherscan.io/tx/0xE75599229F2EA03CAB5C88CD382AD183D3E99B165EF1D424F01ACC3C398085B>

Further Trends & Arbitrage

AVERAGE GAS OFFERED OVER TIME



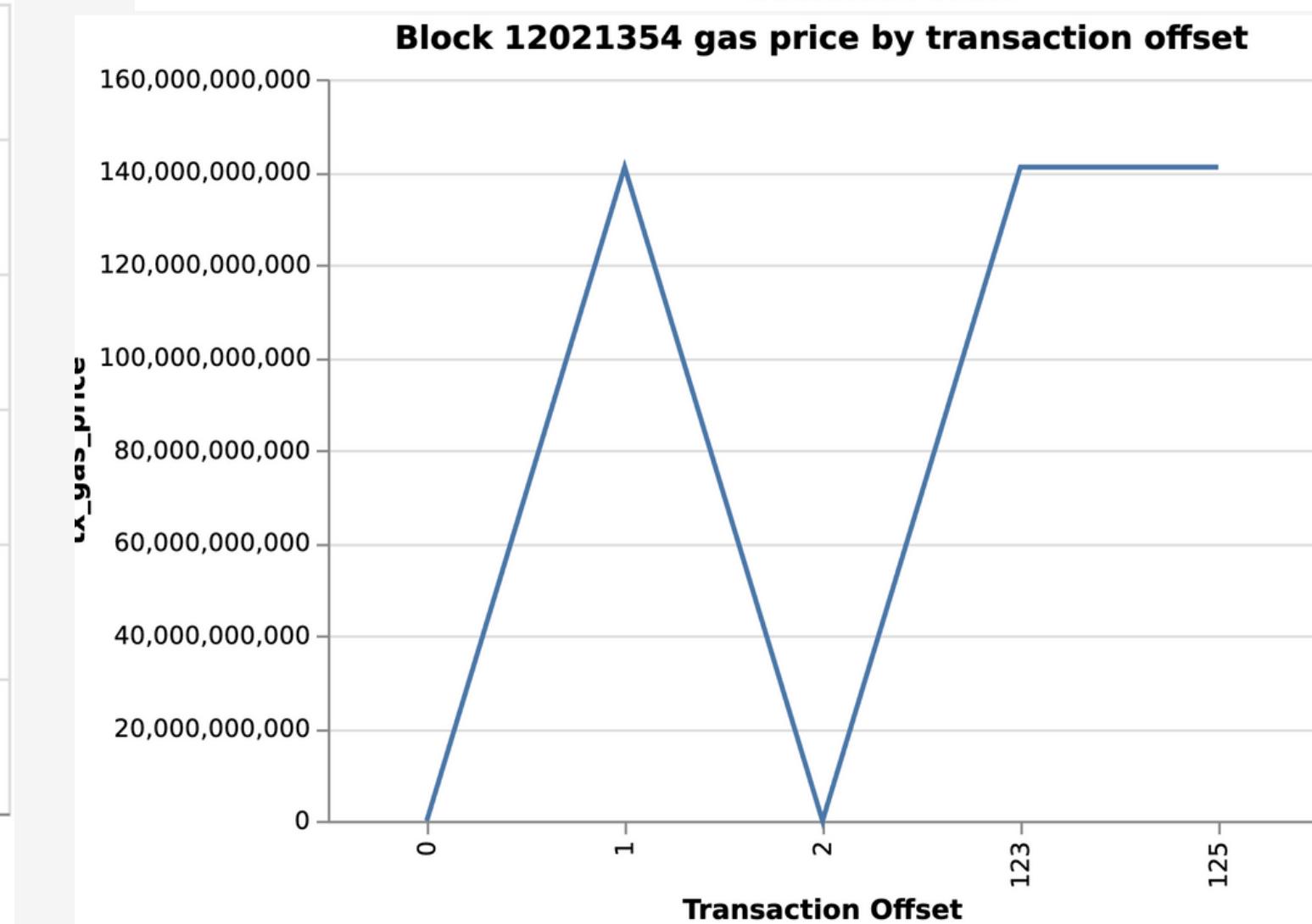
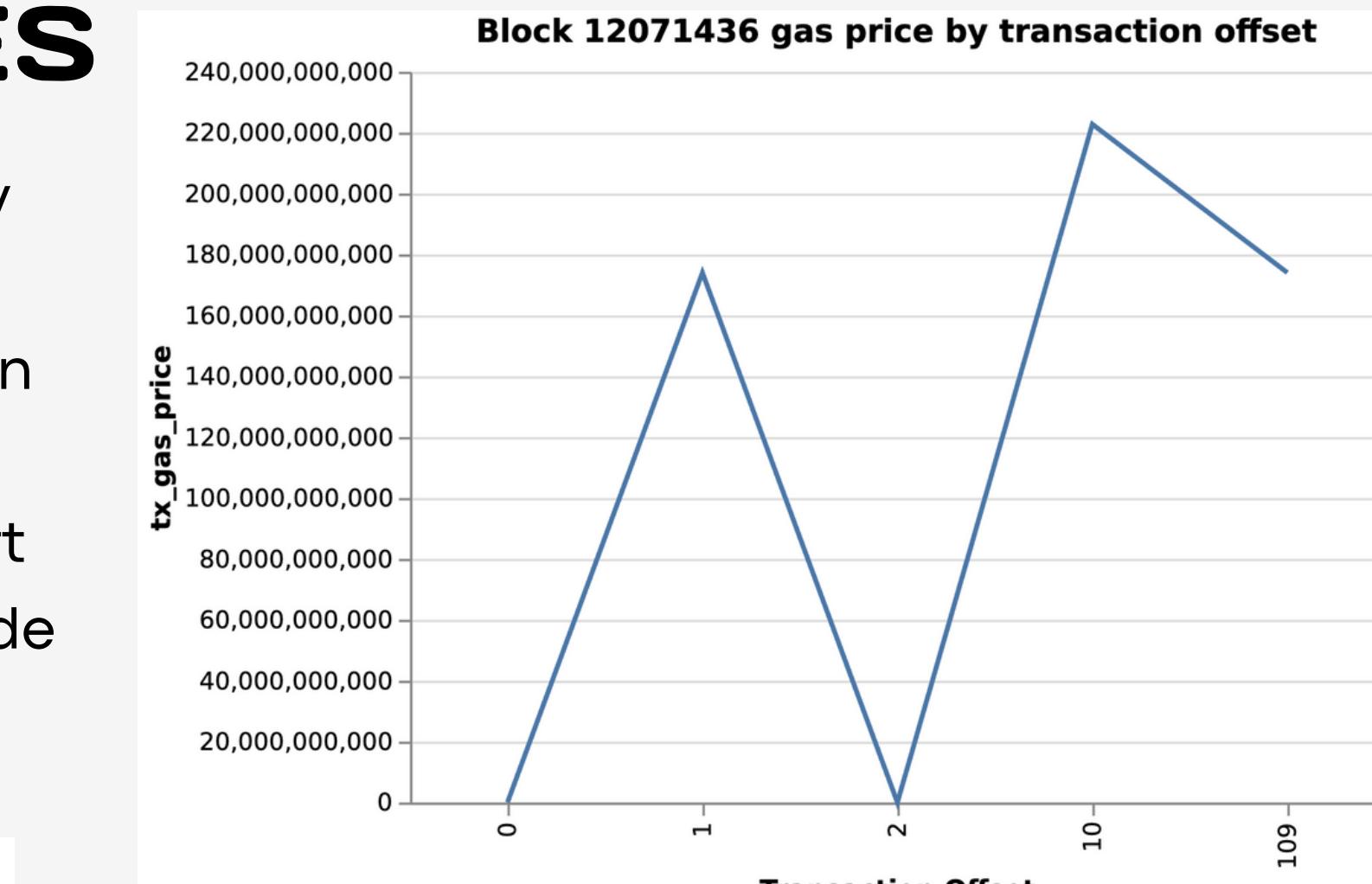
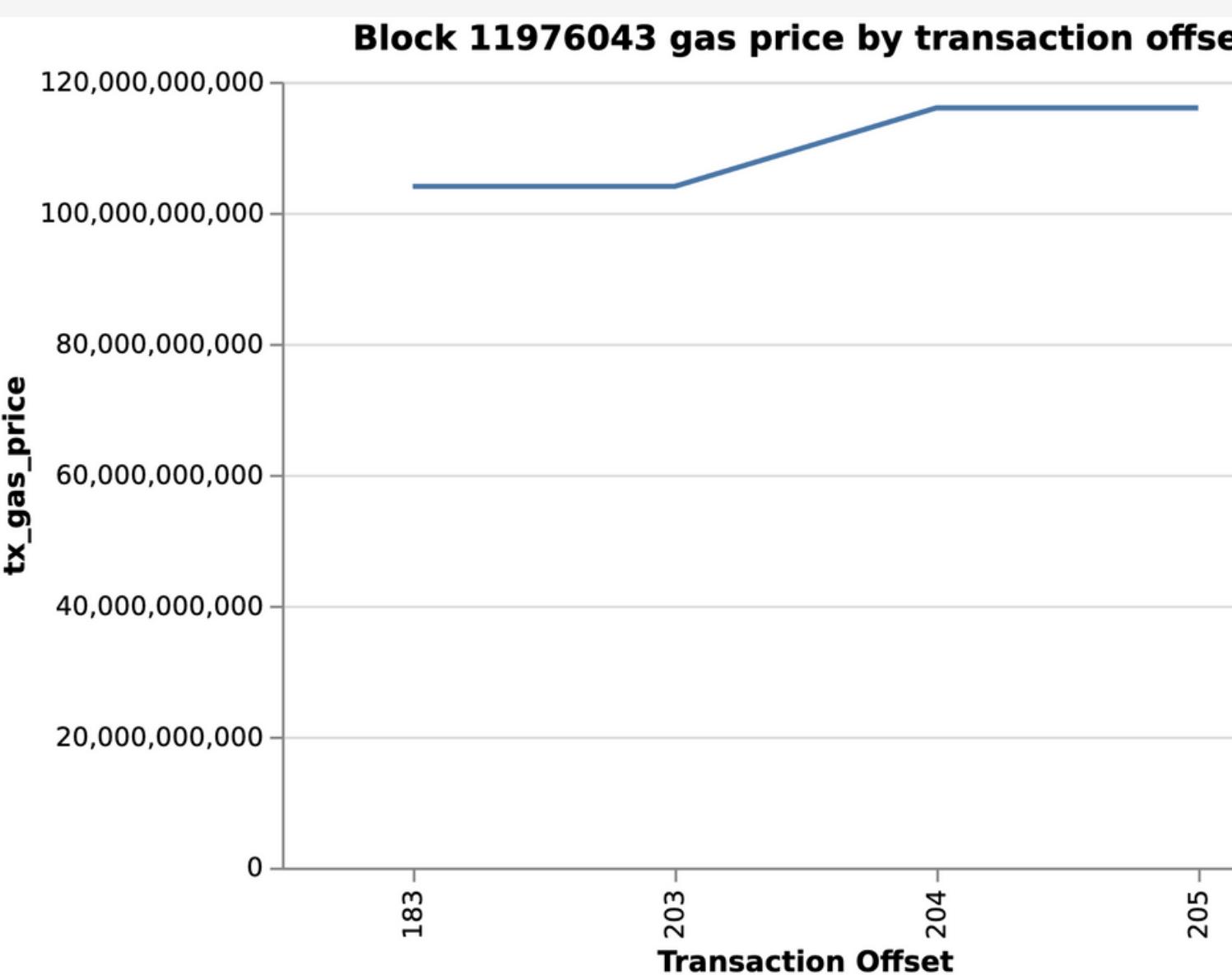
EXPECTED TREND IN GAS PRICES BY TRANSACTION OFFSET OF A BLOCK



- Usually Transactions in the block are ordered by gas prices due to higher fee rewards for miner
- Expect gas price to stay the same or dip as transaction offset increases

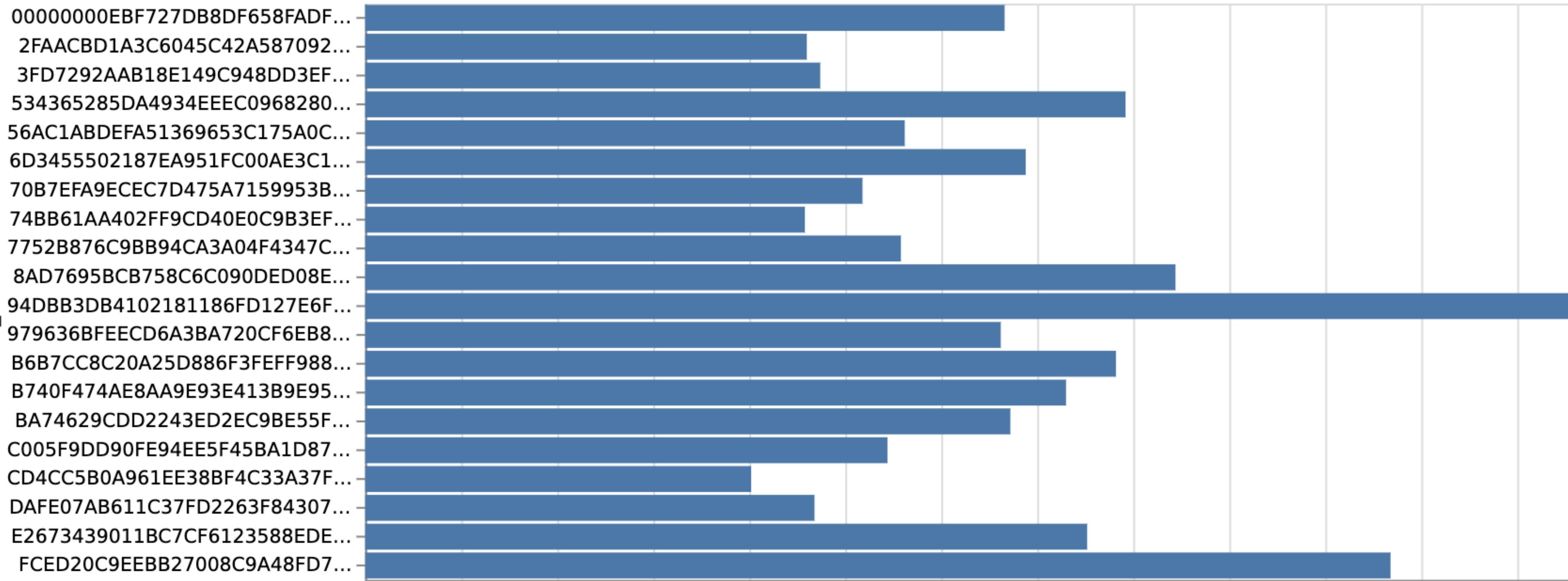
BLOCKS WITH ANOMALIES

- Tx_offset zero went through a relay like flashbots. They pay the gas in a different way. They pay directly to the miner's wallet in a transaction that does not show up in the graph.
- Tx_offset 2 are Self Destruct functions ran on the smart contract, usually done for vulnerability, need to upgrade since code can't be changed, or resource efficiency



MOST FREQUENT SENDERS

Most frequent senders



MOST FREQUENT SENDERS (CONTINUED)

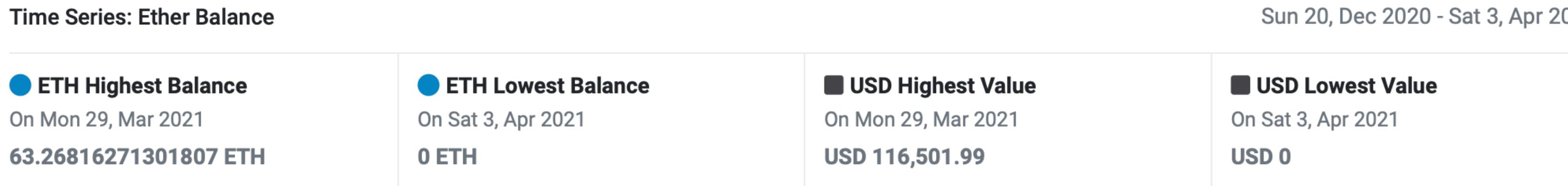
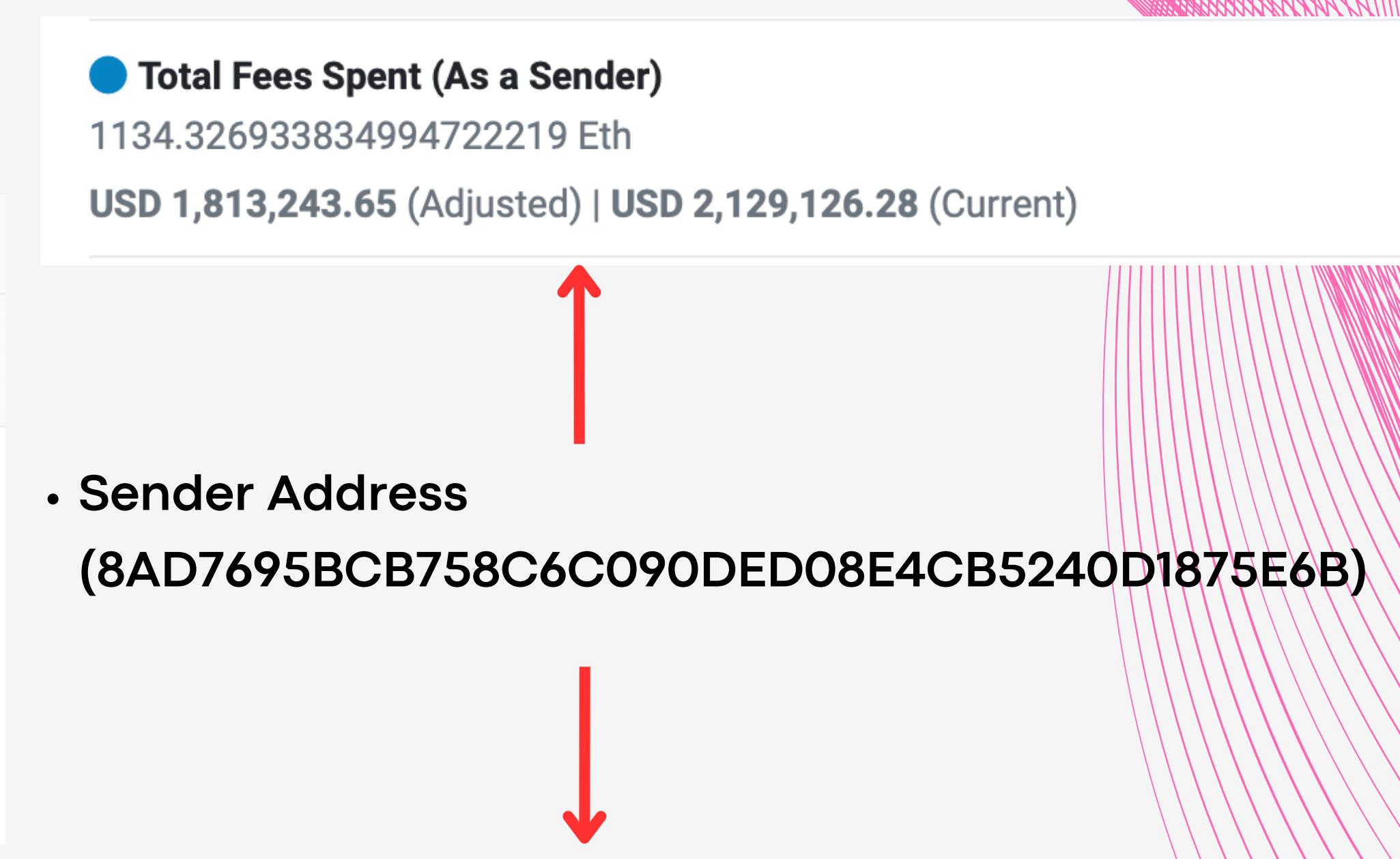
- Current Token Balance of most frequent sender(94DBB3DB4102181186FD127E6F81564D1D4A20A3)

A screenshot of the Etherscan.io address page for 0x94dbB3DB4102181186fd127e6f81564d1d4A20A3. The page is divided into two main sections: 'Overview' and 'More Info'.
Overview:

- ETH BALANCE: 0.038139728176183234 ETH
- ETH VALUE: \$71.80 (@ \$1,882.63/ETH)
- TOKEN HOLDINGS: \$125,758.88 (>168 Tokens)

More Info:

- PRIVATE NAME TAGS: + Add
- LAST TXN SENT: 0xb3f0e6684b94c... from 2 days 22 hrs ago
- FIRST TXN SENT: 0xdcc68581e1218... from 1211 days 14 hrs ago

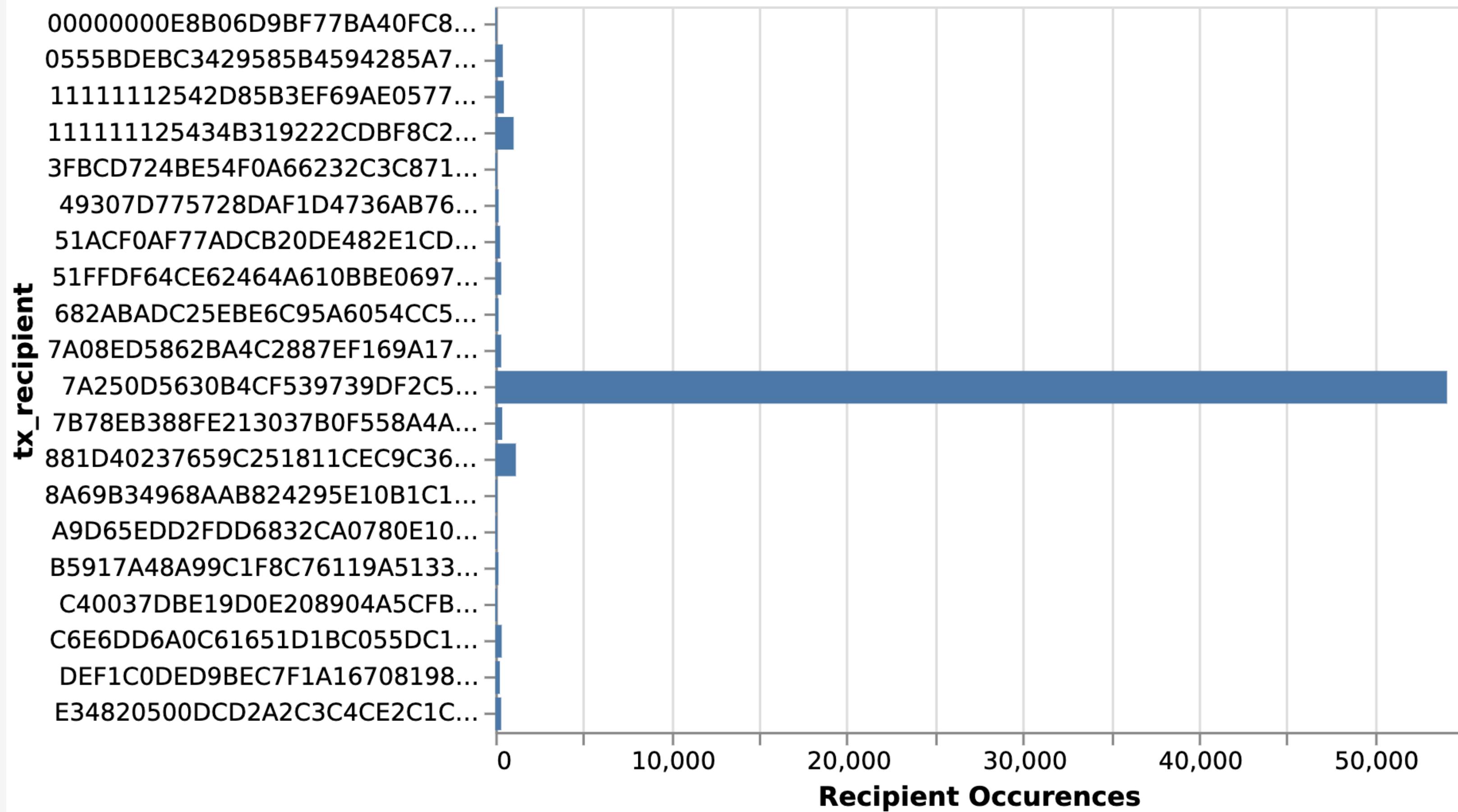


<https://etherscan.io/address/0x94DBB3DB4102181186FD127E6F81564D1D4A20A3>

<https://etherscan.io/address/0x94DBB3DB4102181186FD127E6F81564D1D4A20A3#analytics>

MOST FREQUENT RECIPIENTS

Most frequent Recipients



MOST FREQUENT RECIPIENTS - UNISWAP V2 ROUTER 2

- 7A250D5630B4CF539739DF2C5DACP4C659F2488D
- Made it easier to create pairs, add and remove liquidity, calculate prices for all possible swap variations and perform actual swaps
- Finds the best price across Uniswap v2 + v3 while optimizing for gas prices
- Real-time gas estimates on your swap
- Smarter auto slippage : Default of 0.5%, automatically set slippage based on your expected gas cost and trade size.



MOST FREQUENT RECIPIENTS - METAMASK: SWAP ROUTER

- **881D40237659C251811CEC9c364ef91dC08D300C**
- Find the best price every time - Service fee of 0.875% is automatically factored into each quote.
- Fewer approvals - No need to approve every token on multiple DEXes and aggregators for each trade. With Swaps, users only need to approve each token once, reducing gas costs and shortening the path to executing their token swap.
- Feature to source the best prices and determines which aggregator is the most gas efficient for every trade as executing gas fees for each routes are different



METAMASK

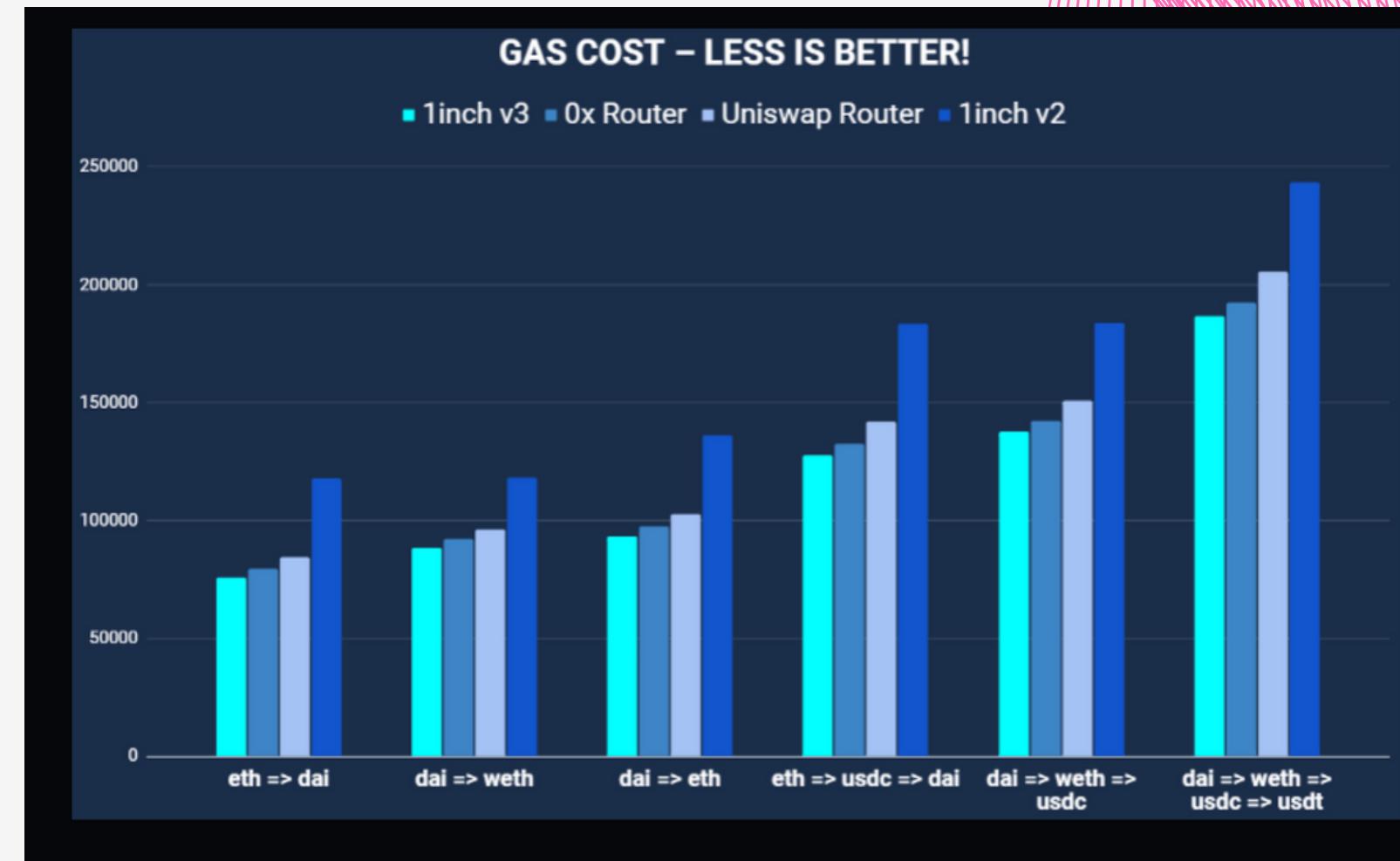
MOST FREQUENT RECIPIENTS - 1 INCH V2: AGGREGATION ROUTER

- 11111125434b319222CdBf8C261674aDB56F3ae
- Pathfinder - discovery and routing algorithm, which finds the best possible paths for a token swap in the shortest possible time
- Speed - quote response reduced from 6 sec to 0.4 sec. Page load time reduced from 5 sec to 0.4 sec.
- 1inch v2 supports all major protocols.
- Partial and dynamic fill mechanism - Allows parts of the swap to immediately switch to another protocol in the split or path
- Maximum return and lowest gas options



MOST FREQUENT RECIPIENTS - 1 INCH V3: AGGREGATION ROUTER

- **1111112542D85B3EF69AE05771c2dCCff4fAa26**
- Lower transaction fees with v3 - main improvement in version 3 is the ability to substantially reduce gas fees thanks to assembly code optimization
- More available liquidity- As of mid-March 2021, the total value of liquidity available on 1inch was \$16.5 billion for Ethereum and another \$2.3 billionn for Binance Smart Chain.



MOST FREQUENT RECIPIENTS - SUSPECTED MONEY LAUNDERING

7B78EB388FE213037B0F558A4A5935FE27B1E481

- SUSPECTED MONEY LAUNDERING



- Both only interacted with a unique sender where both of those senders most recent transaction was with a recipient with a very large ETH balance and token holdings



[https://etherscan.io/txs?
a=0xb6b7cc8c20a25d886f3f
eff988d15d267f71ac7c&p=1](https://etherscan.io/txs?a=0xb6b7cc8c20a25d886f3feff988d15d267f71ac7c&p=1)

0555BDEBC3429585B4594285A76F853725A49532

[https://etherscan.io/address/
0x0555BDEBC3429585B4594
285A76F853725A49532](https://etherscan.io/address/0x0555BDEBC3429585B4594285A76F853725A49532)

MOST FREQUENT SENDER AND RECIPIENT INTERACTIONS

tx_sender	tx_recipient	interaction_count
94DBB3DB4102181186FD127E6F81564D1D4A20A3	7A250D5630B4CF539739DF2C5DACB4C659F2488D	661
FCED20C9EEBB27008C9A48FD766CFE19688B1DC7	7A250D5630B4CF539739DF2C5DACB4C659F2488D	534
8AD7695BCB758C6C090DED08E4CB5240D1875E6B	0555BDEBC3429585B4594285A76F853725A49532	422
534365285DA4934EEEC0968280974AE1A63D7E4F	7A250D5630B4CF539739DF2C5DACB4C659F2488D	396
B6B7CC8C20A25D886F3FEFF988D15D267F71AC7C	7B78EB388FE213037B0F558A4A5935FE27B1E481	391
E2673439011BC7CF6123588EDE66BAB48497D134	7A250D5630B4CF539739DF2C5DACB4C659F2488D	376
B740F474AE8AA9E93E413B9E954D637AC7AFB595	7A250D5630B4CF539739DF2C5DACB4C659F2488D	365
6D3455502187EA951FC00AE3C13831C2F7D7CDB4	7A250D5630B4CF539739DF2C5DACB4C659F2488D	344
00000000EBF727DB8DF658FADFEBFD7983429C9B	51FFDF64CE62464A610BBE0697B32882100861FC	333
BA74629CDD2243ED2EC9BE55FD5B8F083D3F1587	111111125434B319222CDBF8C261674ADB56F3AE	331
979636BFEECD6A3BA720CF6EB8B7135F247E0B4A	7A08ED5862BA4C2887EF169A17637EADB27BEECF	331
56AC1ABDEFA51369653C175A0CAA6A6CC11AADF8	7A250D5630B4CF539739DF2C5DACB4C659F2488D	281
7752B876C9BB94CA3A04F4347C8774816AFA126F	7A250D5630B4CF539739DF2C5DACB4C659F2488D	279
C005F9DD90FE94EE5F45BA1D879F88E2D4C2C2F6	51ACF0AF77ADCB20DE482E1CD678F620BAF07E0C	272
70B7EFA9ECEC7D475A7159953B16796550B436D8	7A250D5630B4CF539739DF2C5DACB4C659F2488D	259
DAFE07AB611C37FD2263F84307B9E4555FC68FCD	7A250D5630B4CF539739DF2C5DACB4C659F2488D	234
2FAACBD1A3C6045C42A587092CF9A21360A3337D	7A250D5630B4CF539739DF2C5DACB4C659F2488D	230
74BB61AA402FF9CD40E0C9B3EFC0B051583FED26	7A250D5630B4CF539739DF2C5DACB4C659F2488D	229
3FD7292AAB18E149C948DD3EFE4E6F9F975A1683	7A250D5630B4CF539739DF2C5DACB4C659F2488D	210
CD4CC5B0A961EE38BF4C33A37F13376F1A97D91F	7A250D5630B4CF539739DF2C5DACB4C659F2488D	201
86254CB5A96C161E503D3255D67FDDDEC056FEFE	C6E6DD6A0C61651D1BC055DC1C22418A729D41BB	180
A7598F55E7D2052CB737953FAA2C30F4458569C5	7A250D5630B4CF539739DF2C5DACB4C659F2488D	170
2991B1DFDF4258472ACDE8C316FAA313C50E760C	7A250D5630B4CF539739DF2C5DACB4C659F2488D	168
D804280A2AA9B557BDD64208E05E417817A88DCD	7A250D5630B4CF539739DF2C5DACB4C659F2488D	164
6699E479E57D494FBEB78FCE43F61921875AD680	7A250D5630B4CF539739DF2C5DACB4C659F2488D	148
6A29AF6C99151978F64996F4D688B2CB16A1B14A	7A250D5630B4CF539739DF2C5DACB4C659F2488D	145
B5859CB70B70968F99B709FCA35EE2E7B0F284D5	7A250D5630B4CF539739DF2C5DACB4C659F2488D	140
71F21BD75577FEAC8D10B93E6238AE6D2CFC3B42	7A250D5630B4CF539739DF2C5DACB4C659F2488D	138
852B36C284111268392F1D7BCB383C9D79B18C10	7A250D5630B4CF539739DF2C5DACB4C659F2488D	134
0E2529219D5618F2893FC49DAAD4C8C23218F368	7A250D5630B4CF539739DF2C5DACB4C659F2488D	133
B27179FB6D0412F0EC9873BAF26DAE3457C5494A	C6E6DD6A0C61651D1BC055DC1C22418A729D41BB	128
8F502D5C5D0CE4B2605B6F21E96B4E545757A860	7A250D5630B4CF539739DF2C5DACB4C659F2488D	127
07D3B6AB4870FCBB639DD224B449FBD6927E1408	7A250D5630B4CF539739DF2C5DACB4C659F2488D	125
204FC8A8C7068E1DC7323A29B89729858E9BC543	7A250D5630B4CF539739DF2C5DACB4C659F2488D	123
2C02DF9D6F6D80B642AC99CD409DD03675B6BF9B	49307D775728DAF1D4736AB762DE0CEFD035E323	120

NOTICEABLE ARBITRAGE TRANSACTIONS

② Transaction Hash: 0xdd47235758de2b573cd824db0e8463507938fcf55fc124c1f2051273c72ce5aa ⓘ

② Status: Success

② Block: 12116254 6392662 Block Confirmations

② Timestamp: 954 days 4 hrs ago (Mar-26-2021 06:26:37 PM +UTC)

⚡ Transaction Action:

- Swap 1,233,328.3883 ⓘ CX For 46.333627254296689646 ETH On Uniswap V2
- Swap 46.333627254296689646 ETH For 76,672.277643988748570566 ⓘ DAI On Uniswap V2
- Executed Swap 1,233,328.3883 ⓘ CX For 76,726.279439 ⓘ USDC With 0x Protocol

② Sponsored:



② From: 0x547C47dD9024C7F340D24BEBaAa9426BFE7d6B ⓘ

② Interacted With (To): 0xDef1C0ded9bec7F1a1670819833240f027b25Ef (0x: Exchange Proxy) ⓘ ✓

② ERC-20 Tokens Transferred: 7

All Transfers Net Transfers

- From 0x547C47dD9024C7F340D24BEBaAa9426BFE7d6B To 0x: Exchange Proxy Flash Wallet For 1,233,328.3883 ⓘ \$70,112.85 ⓘ CircleEx... (CX...)
- From 0x: Exchange Proxy Flash Wallet To Uniswap V2: CX For 1,233,328.3883 ⓘ \$70,112.85 ⓘ CircleEx... (CX...)
- From Uniswap V2: CX To Uniswap V2: DAI For 46.333627254296689646 ⓘ \$78,681.54 ⓘ Wrapped Ether... (WETH...)
- From Uniswap V2: DAI To 0x: Exchange Proxy Flash Wallet For 76,672.277643988748570566 ⓘ \$76,767.61 ⓘ Dai Stableco... (DAI...)
- From 0x: Exchange Proxy Flash Wallet To 0x329239...97F9F88d For 76,672.277643988748570566 ⓘ \$76,767.61 ⓘ Dai Stableco... (DAI...)
- From 0x329239...97F9F88d To 0x: Exchange Proxy Flash Wallet For 76,726.279439 ⓘ \$76,646.23 ⓘ USDC... (USDC...)
- From 0x: Exchange Proxy Flash Wallet To 0x547C47dD9024C7F340D24BEBaAa9426BFE7d6B For 76,726.279439 ⓘ \$76,646.23 ⓘ USDC... (USDC...)

② Transaction Hash: 0xe6f43f55ffd26cd60442ac3e48839eca1c82aca584c85383a7b81eb61814af ⓘ

② Status: Success

② Block: 12022683 6486461 Block Confirmations

② Timestamp: 968 days 15 hrs ago (Mar-12-2021 08:35:58 AM +UTC)

⚡ Transaction Action:

- Swap 34,485.700867416116521013 ⓘ CX For 0.945153477389802659 ETH On Uniswap V2
- Swap 0.945153477389802659 ETH For 1,689.049282 ⓘ USDT On Uniswap V2
- Swap 1,689.049282 ⓘ USDT For 3,576.599010606763792485 ⓘ CHZ On Uniswap V2

② Sponsored:



② From: 0xAC11dCf48334f20e6BAa42E87166CCEeE28Ee08 ⓘ

② Interacted With (To): 0x7a250d5630B4cF539739dF2C5dAcB4c659F2488D (Uniswap V2: Router 2) ⓘ ✓

② ERC-20 Tokens Transferred: 4

All Transfers Net Transfers

- From 0xAC11dCf48334f20e6BAa42E87166CCEeE28Ee08 To Uniswap V2: CX For 34,485.700867416116521013 ⓘ \$1,370.40 ⓘ CircleEx... (CX...)
- From Uniswap V2: CX To Uniswap V2: USDT For 0.945153477389802659 ⓘ \$1,672.39 ⓘ Wrapped Ether... (WETH...)
- From Uniswap V2: USDT To Uniswap V2: CHZ-USDT For 1,689.049282 ⓘ \$1,692.48 ⓘ Tether USD... (USDT...)
- From Uniswap V2: CHZ-USDT To 0xAC11dCf48334f20e6BAa42E87166CCEeE28Ee08 For 3,576.599010606763792485 ⓘ \$2,602.19 ⓘ chiliZ... (CHZ...)

- Stablecoin Arbitrage: Stablecoins like USDT, USDC, or DAI are often used as intermediaries in arbitrage strategies because they maintain a stable value pegged to USD. This stability makes them ideal for arbitrage trading because traders can move in and out of volatile cryptocurrencies quickly without being exposed to price fluctuations.
- Executed by trading bots that can monitor multiple exchanges simultaneously
- Liquidity Differences: Different exchanges and trading pairs may have varying levels of liquidity. Low liquidity can result in wider spreads (the difference between the buy and sell prices) and make it easier for prices to deviate from their true market value.
- Market Inefficiencies / Geographical Arbitrage / Trading Fee Variations

NOTICEABLE ARBITRAGE TRANSACTIONS (CONTINUED)

② Transaction Hash:	0xdd4e5cd5cf01a9c3988db1d49ee6fb8c9ebbf3cf7d77648b1d66727b8c731b91			
② Status:	Success			
② Block:	11983453 6526344 Block Confirmations			
② Timestamp:	⌚ 974 days 18 hrs ago (Mar-06-2021 07:21:55 AM +UTC)			
⚡ Transaction Action:	<ul style="list-style-type: none"> Swap 138,938.710308316313219565 CX For 10.069918931327408923 ETH On Uniswap V2 Swap 10.069918931327408923 ETH For 304,405.807325868784842022 ZCK On Uniswap V2 			
② Sponsored:				
② From:	0x9e1833861F9850Fa5542831466c915B355d913E6			
② Interacted With (To):	0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D (Uniswap V2: Router 2)			
② ERC-20 Tokens Transferred:	<table border="1"> <tr> <td>All Transfers</td> <td>Net Transfers</td> </tr> <tr> <td> <ul style="list-style-type: none"> From 0x9e1833...55d913E6 To Uniswap V2: CX For 138,938.710308316313219565 ⌚ \$11,270.36 CircleEx... (CX...) From Uniswap V2: CX To Uniswap V2: ZCK For 10.069918931327408923 ⌚ \$16,731.95 Wrapped Ether (WETH...) From Uniswap V2: ZCK To Null: 0x000...000 For 6,088.11614651737569684 ⌚ \$322.83 Polkazeck... (ZCK...) From Uniswap V2: ZCK To 0x9e1833...55d913E6 For 289,185.516959575345599922 ⌚ \$15,334.46 Polkazeck... (ZCK...) </td> </tr> </table>	All Transfers	Net Transfers	<ul style="list-style-type: none"> From 0x9e1833...55d913E6 To Uniswap V2: CX For 138,938.710308316313219565 ⌚ \$11,270.36 CircleEx... (CX...) From Uniswap V2: CX To Uniswap V2: ZCK For 10.069918931327408923 ⌚ \$16,731.95 Wrapped Ether (WETH...) From Uniswap V2: ZCK To Null: 0x000...000 For 6,088.11614651737569684 ⌚ \$322.83 Polkazeck... (ZCK...) From Uniswap V2: ZCK To 0x9e1833...55d913E6 For 289,185.516959575345599922 ⌚ \$15,334.46 Polkazeck... (ZCK...)
All Transfers	Net Transfers			
<ul style="list-style-type: none"> From 0x9e1833...55d913E6 To Uniswap V2: CX For 138,938.710308316313219565 ⌚ \$11,270.36 CircleEx... (CX...) From Uniswap V2: CX To Uniswap V2: ZCK For 10.069918931327408923 ⌚ \$16,731.95 Wrapped Ether (WETH...) From Uniswap V2: ZCK To Null: 0x000...000 For 6,088.11614651737569684 ⌚ \$322.83 Polkazeck... (ZCK...) From Uniswap V2: ZCK To 0x9e1833...55d913E6 For 289,185.516959575345599922 ⌚ \$15,334.46 Polkazeck... (ZCK...) 				
② Value:	♦ 0 ETH (\$0.00)			
② Transaction Fee:	0.0281456472 ETH \$53.10			
② Gas Price:	90.2 Gwei (0.000000902 ETH)			

② Transaction Hash:	0x037a71835f2b4bcbb7ade9f3b4c07510b8aa3f5f4f5f5d60e65d1bf64439548f			
② Status:	Success			
② Block:	11986358 6522767 Block Confirmations			
② Timestamp:	⌚ 974 days 5 hrs ago (Mar-06-2021 05:49:29 PM +UTC)			
⚡ Transaction Action:	<ul style="list-style-type: none"> Swap 80,000 CX For 5.135594770115992772 ETH On Uniswap V2 Swap 5.135594770115992772 ETH For 8,182.076122 USDC On Sushiswap Executed Swap 80,000 CX For 8,151.605421 USDC With 1inch 			
② Sponsored:				
② From:	0xbA74629Cd2243ED2Ec9bE55Fd5B8F083d3F1587			
② Interacted With (To):	0x11111125434b319222CdBf8C261674aDB56F3ae (1inch v2: Aggregation Router)			
② ERC-20 Tokens Transferred:	<table border="1"> <tr> <td>All Transfers</td> <td>Net Transfers</td> </tr> <tr> <td> <ul style="list-style-type: none"> From 0xbA7462...3d3F1587 To Uniswap V2: CX For 80,000 ⌚ \$6,489.40 CircleEx... (CX...) From Uniswap V2: CX To SushiSwap: USDC For 5.135594770115992772 ⌚ \$8,533.19 Wrapped Ether (WETH...) From SushiSwap: USDC To 1inch: Router 2 For 8,182.076122 ⌚ \$8,182.44 USDC... (USDC...) From 1inch: Router 2 To 0x910bf2...Ab7c8bd2 For 30.470701 ⌚ \$30.47 USDC... (USDC...) From 1inch: Router 2 To 0xbA7462...3d3F1587 For 8,151.605421 ⌚ \$8,151.97 USDC... (USDC...) </td> </tr> </table>	All Transfers	Net Transfers	<ul style="list-style-type: none"> From 0xbA7462...3d3F1587 To Uniswap V2: CX For 80,000 ⌚ \$6,489.40 CircleEx... (CX...) From Uniswap V2: CX To SushiSwap: USDC For 5.135594770115992772 ⌚ \$8,533.19 Wrapped Ether (WETH...) From SushiSwap: USDC To 1inch: Router 2 For 8,182.076122 ⌚ \$8,182.44 USDC... (USDC...) From 1inch: Router 2 To 0x910bf2...Ab7c8bd2 For 30.470701 ⌚ \$30.47 USDC... (USDC...) From 1inch: Router 2 To 0xbA7462...3d3F1587 For 8,151.605421 ⌚ \$8,151.97 USDC... (USDC...)
All Transfers	Net Transfers			
<ul style="list-style-type: none"> From 0xbA7462...3d3F1587 To Uniswap V2: CX For 80,000 ⌚ \$6,489.40 CircleEx... (CX...) From Uniswap V2: CX To SushiSwap: USDC For 5.135594770115992772 ⌚ \$8,533.19 Wrapped Ether (WETH...) From SushiSwap: USDC To 1inch: Router 2 For 8,182.076122 ⌚ \$8,182.44 USDC... (USDC...) From 1inch: Router 2 To 0x910bf2...Ab7c8bd2 For 30.470701 ⌚ \$30.47 USDC... (USDC...) From 1inch: Router 2 To 0xbA7462...3d3F1587 For 8,151.605421 ⌚ \$8,151.97 USDC... (USDC...) 				

NOTICEABLE SWAP LOSSES

② Transaction Hash: 0x472c9972b9de510a5d4cac18ea5db5250fa4f2d2ed2415aefc8defee7022c1b1 [Copy](#)

② Status: Success

② Block: 11979944 6529168 Block Confirmations

② Timestamp: 975 days 5 hrs ago (Mar-05-2021 06:26:12 PM +UTC)

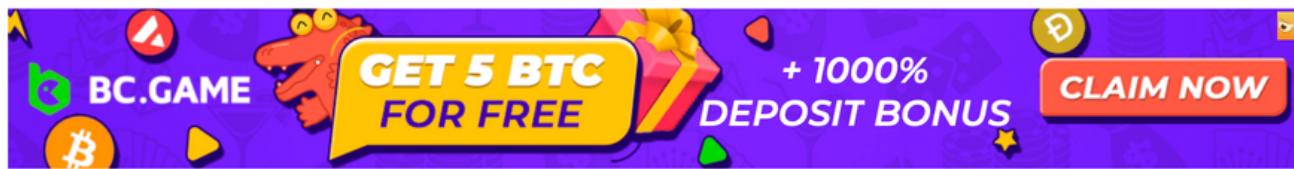
⚡ Transaction Action:

▶ Swap 72,687.1 CX For 7.535819788833751097 ETH On Uniswap V2

▶ Swap 7.535819788833751097 ETH For 11,746.831937599740538238 PAID On Uniswap V2

▶ Executed Swap 72,687.1 CX For 11,032.760710540556367128 PAID With 1inch

② Sponsored:



② From: 0x940E6c265D68F0b7aeaDf346096Dc538e9E285e3 [Copy](#)

② Interacted With (To): [0x11111125434b319222CdBf8C261674aDB56F3ae](#) (1inch v2: Aggregation Router) Success

② ERC-20 Tokens Transferred: 5

All Transfers Net Transfers

▶ From 0x940E6c...e9E285e3 To Uniswap V2: CX For 72,687.1 \$9,487.22 CircleEx... (CX...)

▶ From Uniswap V2: CX To Uniswap V2: PAID 23 For 7.535819788833751097 \$11,547.11 Wrapped Ethe... (WETH...)

▶ From Uniswap V2: PAID 23 To 1inch: Router 2 For 11,746.831937599740538238 \$5,459.03 PAID Network... (PAID...)

▶ From 1inch: Router 2 To 0x910bf2...Ab7c8bd2 For 714.07122705918417111 \$331.85 PAID Network... (PAID...)

▶ From 1inch: Router 2 To 0x940E6c...e9E285e3 For 11,032.760710540556367128 \$5,127.18 PAID Network... (PAID...)

② Transaction Hash: 0x88e5bec81d21bcce890a2d57273189e00e243841104c31af4bf04b7d409fef72 [Copy](#)

② Status: Success

② Block: 11969525 6539536 Block Confirmations

② Timestamp: 976 days 19 hrs ago (Mar-04-2021 04:12:52 AM +UTC)

⚡ Transaction Action:

▶ Swap 138,183 CX For 7.503554355994841963 ETH On Uniswap V2

▶ Swap 7.503554355994841963 WETH For 11,698.416418 USDC On 0x Protocol

▶ Executed Swap 138,183 CX For 11,698.416418 USDC With 1inch

② Sponsored:



② From: 0xbA74629CDd2243ED2Ec9bE55Fd5B8F083d3F1587 [Copy](#)

② Interacted With (To): [0x11111125434b319222CdBf8C261674aDB56F3ae](#) (1inch v2: Aggregation Router) Success

② ERC-20 Tokens Transferred: 5

All Transfers Net Transfers

▶ From 0xbA7462...3d3F1587 To Uniswap V2: CX For 138,183 \$16,965.21 CircleEx... (CX...)

▶ From Uniswap V2: CX To 1inch: Router 2 For 7.503554355994841963 \$11,559.55 Wrapped Ethe... (WETH...)

▶ From 0x56178a...37345Bf9 To 1inch: Router 2 For 11,698.416418 \$11,809.90 USDC... (USDC...)

▶ From 1inch: Router 2 To 0x56178a...37345Bf9 For 7.503554355994841963 \$11,559.55 Wrapped Ethe... (WETH...)

▶ From 1inch: Router 2 To 0xbA7462...3d3F1587 For 11,698.416418 \$11,809.90 USDC... (USDC...)

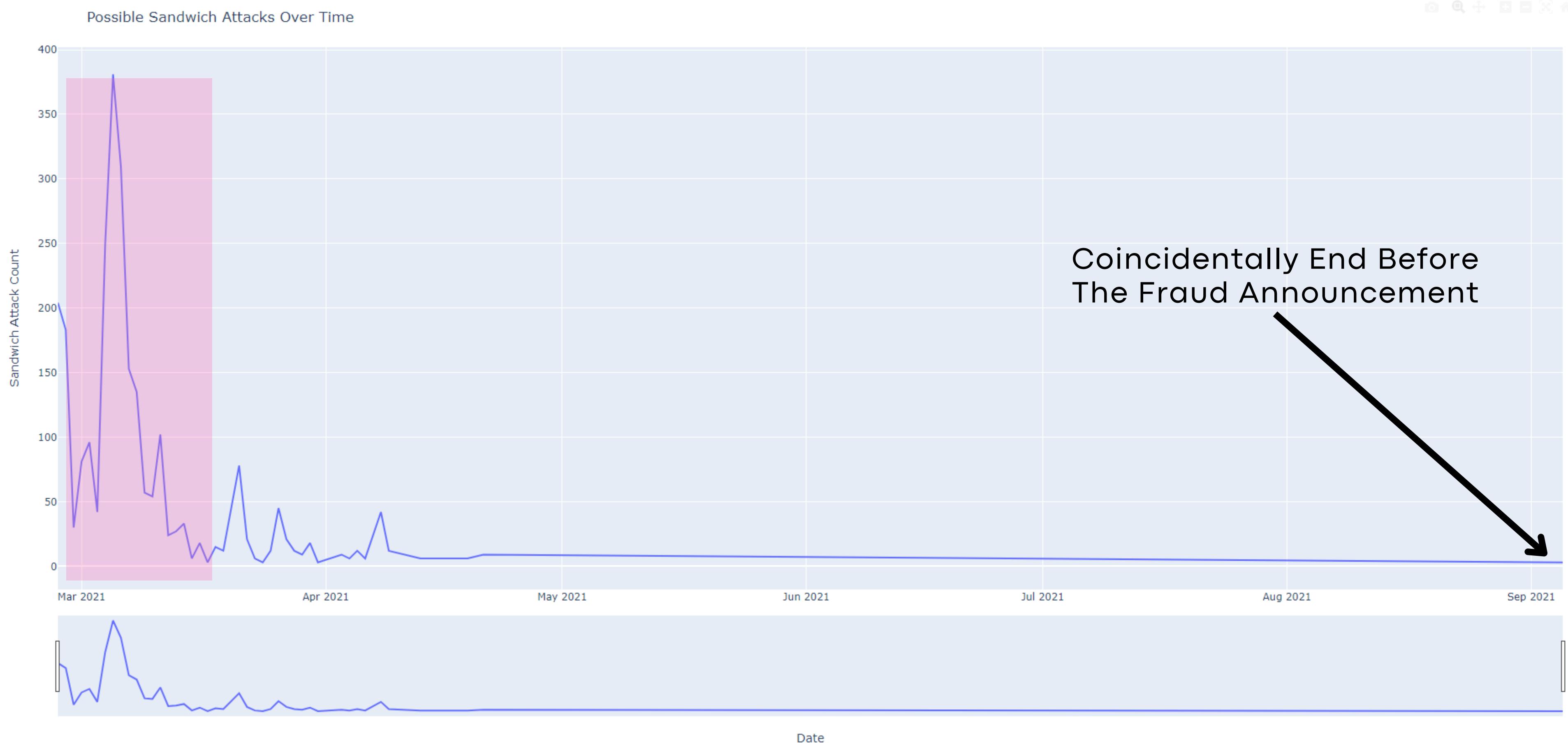
- Slippage
- Frontrunning or sandwich attacks
- Smart Contract bugs
- Unpredictable events / Network congestion

<https://etherscan.io/tx/0x472c9972b9de510a5d4cac18ea5db5250fa4f2d2ed2415aefc8defee7022c1b1>

<https://etherscan.io/tx/0x88e5bec81d21bcce890a2d57273189e00e243841104c31af4bf04b7d409fef72>

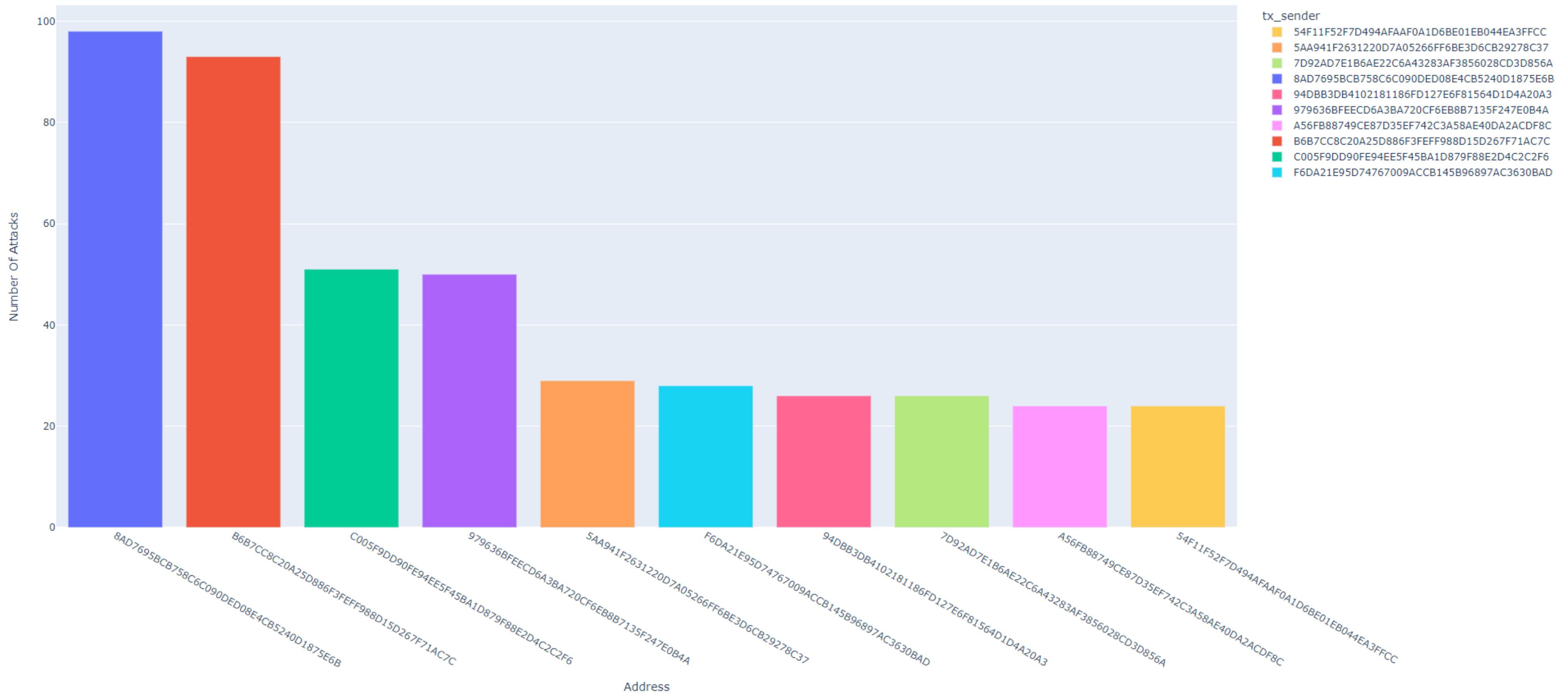
Sandwich Attacks

Sandwich ATTACK TRENDS



Top Sandwich ATTACKERS

Top 10 Possible Sandwich Attackers



Sandwich Attack EXAMPLE

② Transaction Hash:	0x98e921ff95aa2968681af09d92aa96703d514a9141594fd804af60c595e809ce
② Status:	Success
② Block:	11979600 6534895 Block Confirmations
② Timestamp:	976 days 33 mins ago (Mar-05-2021 05:09:22 PM +UTC)
⚡ Transaction Action:	Swap 19.9 ETH For 178,363.181737448256017617 CX On Uniswap V2

Attacker Initiates Transaction With Low Transaction Offset (94) And Pays \$30 In Fees

② Transaction Hash:	0x59ddec31f751837c9bf0538dd72c69871e82b0b873e4174847cd7aea59c9e3cd
② Status:	Success
② Block:	11979602 6534895 Block Confirmations
② Timestamp:	976 days 33 mins ago (Mar-05-2021 05:09:49 PM +UTC)
⚡ Transaction Action:	Swap 5 ETH For 43,310.458359053565502892 CX On Uniswap V2

Victim's Transaction "Sandwiched" With Higher Transaction Offset (127)

② Transaction Hash:	0xb2f81ddfbe3aadd3592c4868d46617b3f2ff632a5ff9490857abeed8c1c74423
② Status:	Success
② Block:	11979602 6534897 Block Confirmations
② Timestamp:	976 days 33 mins ago (Mar-05-2021 05:09:49 PM +UTC)
⚡ Transaction Action:	Swap 178,363.181737448256017617 CX For 20.049531403886143597 ETH On Uniswap V2

Attacker Swaps Same Amount Of CX Later For More ETH With Transaction Offset (143)

Community's RECEPTION



Ayumi Xiyeon

3 years ago

Wish we could report and deactivate some wallet address for fraud.

0 0 Reply • Share

Comment Under Attacker Wallet

Transfer	12171465	946 days 11 hrs ago	0x8ad769...D1875E6B			0xa37b30...75bcc189		36.02578016 ETH
Transfer	12166613	947 days 5 hrs ago	0xb6B7CC...7F71AC7C			0xa37b30...75bcc189		22.42453319 ETH
Transfer	12161184	948 days 57 mins ago	0x979636...247E0b4a			0xa37b30...75bcc189		60.12364315 ETH

Last Transactions From Attackers In Top 4

disqus_8IdQfwej1L
3 years ago
AHAHA you lost \$\$\$\$
 0 0 Reply • Share

Adding Salt To Injury?

Overview

ETH BALANCE

♦ 285.959785470496633288 ETH

ETH VALUE

\$540,307.22 (@ \$1,889.45/ETH)

TOKEN HOLDINGS

\$866,536.33 (81 Tokens)

<https://etherscan.io/address/0xC005F9DD90FE94EE5F45BA1D879F88E2D4C2C2F6#comments>
<https://etherscan.io/address/0x8AD7695BCB758C6C090DED08E4CB5240D1875E6B>
<https://etherscan.io/address/0xB6B7CC8C20A25D886F3FEFF988D15D267F71AC7C>
<https://etherscan.io/address/0x979636BFEECD6A3BA720CF6EB8B7135F247E0B4A>
<https://etherscan.io/address/0xa37b3076c0d225bb5edea2275aacdb5475bcc189>

Sandwich Attack EXAMPLE CONTINUED

② Transaction Hash:	0xaf54516e28c9a6fecd073f212ea60c47e596a95ea9babd70791cd3354376df08
② Status:	Success
② Block:	12124345 6390200 Block Confirmations
② Timestamp:	953 days 17 hrs ago (Mar-28-2021 12:15:37 AM +UTC)
⚡ Transaction Action:	Swap 18.861202400878953858 ETH For 606,811.594898206585626583 CX On Uniswap V2

Attacker Bot Initiates Transaction With Low Transaction Offset (0)

② Transaction Hash:	0xbf2af77dc2803ba63a005a9b45716ebd6ac5288bf6fd132b9b323cb2b998c692
② Status:	Success
② Block:	12124345 6390201 Block Confirmations
② Timestamp:	953 days 17 hrs ago (Mar-28-2021 12:15:37 AM +UTC)
⚡ Transaction Action:	Swap 3 ETH For 91,382.407745276797665752 CX On Uniswap V2

Victim's Transaction "Sandwiched" With Higher Transaction Offset (1)

② Transaction Hash:	0xd1671802325d78361a0dce75f7fc6aca4e2017bb9e6fa20c4428016e191661b
② Status:	Success
② Block:	12124345 6390203 Block Confirmations
② Timestamp:	953 days 17 hrs ago (Mar-28-2021 12:15:37 AM +UTC)
⚡ Transaction Action:	Swap 606,811.594898206585626583 CX For 19.023542461836841488 ETH On Uniswap V2

Attacker Swaps Same Amount Of CX Later For 0.16 More ETH

<https://etherscan.io/tx/0xAF54516E28C9A6FEDC073F212EA60C47E596A95EA9BABD70791CD3354376DF08>

<https://etherscan.io/tx/0xBF2AF77DC2803BA63A005A9B45716EBD6AC5288BF6FD132B9B323CB2B998C692>

<https://etherscan.io/tx/0xD1671802325D78361A0DCE75F7FC6ACA4E2017BB9E6FA20C4428016E191661B>

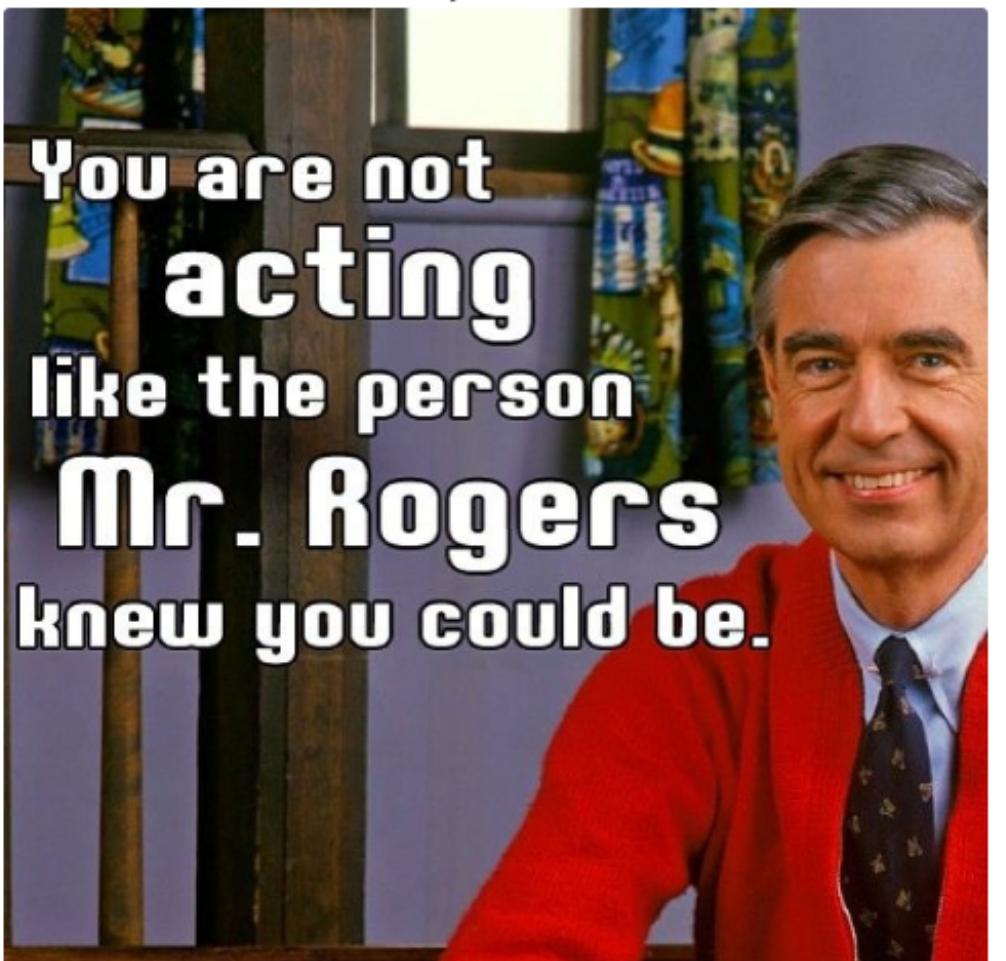
Community's RECEPTION CONTINUED



Fred Rogers

3 years ago

Hello neighbour. You should know that stealing is wrong and even though it feels good in the short term all you're doing is taking from others, from the hard work that they've done and contributed to this world. I know you can do better than this friend.



farhan

3 years ago

hello can you make me rich like you...email me plz

1 0 Share



John

3 years ago

to the owner of this bot, be careful.

1 0 Share



KB-401

3 years ago

Seems to be a miner who is front running uniswap Eth->Token transactions. Any suitable transactions are moved straight to the start of the block, and proceeded by a front running swap that is sized to ensure that the real transaction's slippage isn't exceeded. Then another transaction after the real one to swap back.

- screws over the person doing the uniswap transaction
 - screws over anyone else's transactions for the same pair within the same block
- ETH is completely broken.

0 0 Share



Thank You
