

Hi! At ETHLisbon I sent over 30,000 Txns from a single account, and over 470,000 Txns collectively from my 100 accounts.

Outline:

1. Interesting Findings
2. Account List

Intersting findings:

1. Explorer breaks a bit. It fails to show new transactions:

LATEST TRANSACTIONS					LATEST BLOCKS		
HASH	FROM	TO	TIME ⌚	FEE(NEON)	BLOCK ID	TX COUNT	TIME ⌚
0x42102a7d3...	0x964123ea9...	0x61e5bc1ee6...	12 minutes ago	0.002362086	#255993371	6	12 minutes ago
0x259eb2055...	0xf41430fc7e...	0x61e5bc1ee6...	12 minutes ago	0.002359751	#255993370	5	12 minutes ago
0x3d2017b5e...	0x298af5c0ba...	0x61e5bc1ee6...	12 minutes ago	0.002362086	#255993369	2	12 minutes ago
0xce1b97637...	0x5946f78295...	0x61e5bc1ee6...	12 minutes ago	0.002378876	#255993368	3	12 minutes ago
0x886c1abff3...	0xeb3c4d2fa7...	0x61e5bc1ee6...	12 minutes ago	0.002359433	#255993367	4	12 minutes ago
0x870ffd108b...	0xe65a6e8ee5...	0x61e5bc1ee6...	12 minutes ago	0.002361061	#255993366	4	12 minutes ago
0x187c00083...	0x9d0cfc0f4c...	0x61e5bc1ee6...	12 minutes ago	0.002353338	#255993365	4	12 minutes ago
0xfef30f6999c...	0x19b407aa4...	0x61e5bc1ee6...	12 minutes ago	0.00236067	#255993364	9	12 minutes ago
0xd7dcf72aaf...	0xd3a0f92db3...	0x61e5bc1ee6...	12 minutes ago	0.002359751	#255993363	2	12 minutes ago
0x88c40a2d4...	0xe1978c60e7...	0x61e5bc1ee6...	12 minutes ago	0.002361062	#255993362	3	12 minutes ago

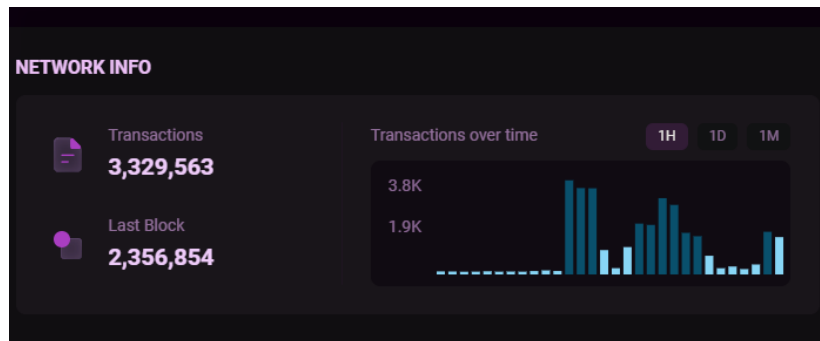
- a.
 - b. 12 minutes ago, I had turned on my parrallelization of the other accounts I had. There were too many transactions (~3.8 txn/minute) and the explorer froze
 - c. This is around 4pm EST
 - d. BUT if you search up a new tx_hash, it's information still appears on the explorer oddly enough (I'm guessing the explorer just gets information on the fly). But the indexed information is frozen
 - e. Update: Seems like it's just lagging behind and just indexing the data very slowly
2. (Maybe) some txns aren't treated fairly:

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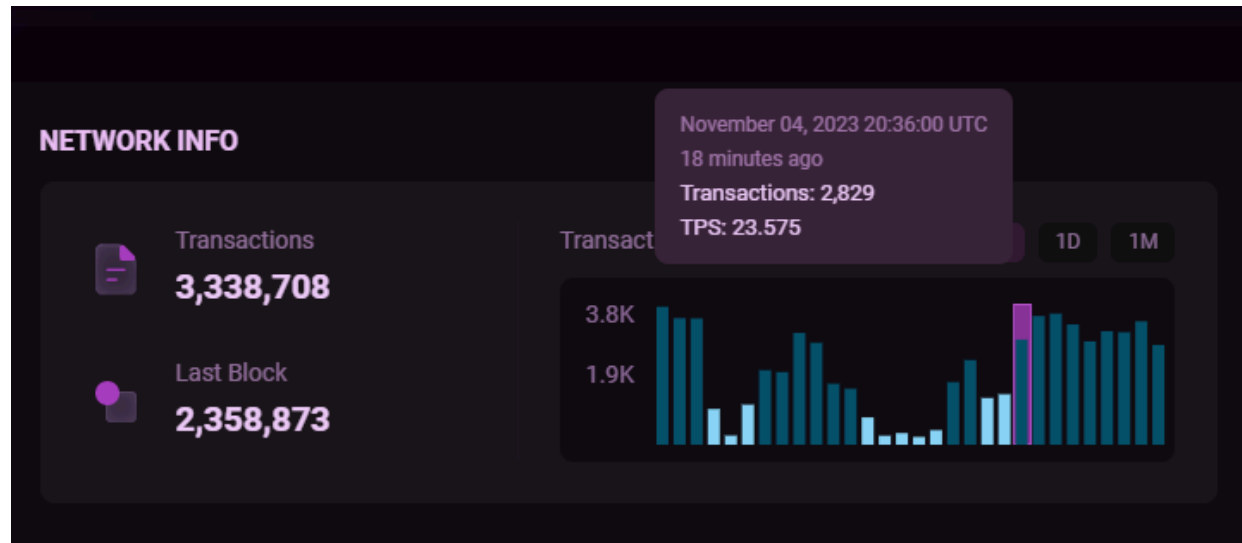
0x976C53b16c20Dc0dAbBF629Ff19C392154542e6d 162
0xB2dae7549607aDD526D2f898F7d8C4305c1bBceB 327
0x1Daa795a66De4984472309fdBe94AB760c349a49 149
0x61c88F19451f87563bEF321A590D9Bbb1E7A0De9 249
0xE054516a84C0A32D4156621f7593327Cd7F80887 337
0x5946f78295BbFe19c8A4cb70F2066f93eFdcB2d3 400
0x9BC552945b28058cC4Cf50d90D14a36128229ac6 418
0x8EFA72FcDcCA331249655915E5972b09F3Ca1D1d 264
0x4C27BC13a59C88cFED775761CCE9CC3A3BBC555C 326
0x19bF407Aa4863B14290Bd5A75fbBEc4Ab86fA20b 187
0x10799cf8760D71722C809EA2D92fDBb3d0Bc5b8C 170
0xA5C1d21D703d60B99405771DebdDce216e5a541 293
0xd02d88ff08eed9F23b8F93Cdd1852d4224622154 299
0xFD254eD0AB24fCaD7d90430Efd38c1dc64E9616a 246
0x964123ea96da2dEBcDEd89D39D2774059b204f9D 178
0x5954559C5C8004806C2787Ef1B21c691C4f8D23d 184
0x593f9E1A48fE2f471E3e9937E8D24Ab5Eb462240 235
0x324fB8ceb98BE5EA8bA04264dABdea2B43FAF28e 218
0xefC7fb68947b92bE92278BC667cb1877973597d6 154
0x99D71410D097f5F772191566A86aab826bFbE4d4 168
0xb720Cb19D8696e276A1d4Bd8CA3DD34D2fC4df63 180
0xFc6570da53eFB857A02B3261F8a411C4C8605aB8 192
0xb6939Fff7460aFb61b0Caf2C6b62b3D9252864a6 130
0x40DF86846144bA39b7ECC7013Dbd42a99784420A 61
0x4BCA4303DAffCA7008D7A8EB74729abDf365D7c 172
0x912085Da7611049c1138a72907718fC78894b998 266
0x29D92859e6abF4D759e2a0907b22aD829a85D1BE 223

```

- a.
 - b. I queries some of my accounts a few minutes into the execution. Some have >400 txns, Some are still under 60
 - c. It might just be because of dumb luck
3. The nodes aren't "stable":



- a.
- b. It started off at 3.8k txns/minute. But something broke and my txn/minute dropped significantly. I had to restart the script and it worked again... But then it broke again
- c. Maybe the nodes are being overwhelmed and just drop my pending transactions
- d. My script runs via iterating through the nonce, thus if you drop previous pending transactions it will screw up my script lol. That may explain why I need to restart it every so often
- e. Update: I updated my script to be resilient to the nodes dropping my previous transactions and it seems to be fairing better now - so I that seems to back up my hypothesis:



- f.
 - g. (I upgraded my script at the highlighted part)
 - h. If my hypothesis is true, that means I can effectively dos the nodes just by scaling the number of accounts I have (if the node discards transactions equally). I'm currently using 100 accounts, but I could try 1k accounts... I might just try that
 - i. Update: I tried that, but the node started to error out. I got scared and stopped lol
 - j. For some reason I'm unable to hit my previous rate (~3.6k txns per minute) now I'm only able to hit ~2k txns per minute. I'm not sure why, my scripts are running as usual.
4. Explorer broken Part II:

TX HASH	METHOD	BLOCK	TIME ⌚	FROM	TO
8c8a080bdec351d1815bbbd856...	transfer	#255996593	16 minutes ago	0xb720cb19d8696e276a1...	0x61e5bc1ee64d4ff0a4f7...
0e8c874519fe867b3ab78ff6f28...	transfer	#255996594	16 minutes ago	0x61e5bc1ee64d4ff0a4f7...	0x61e5bc1ee64d4ff0a4f7...
f8d1b670edfbb537ffbe067418...	transfer	#255996593	16 minutes ago	0x9ec883651094331d7c9...	0x61e5bc1ee64d4ff0a4f7...
cc5cb5f84c770ca1ec9324f4f0...	transfer	#255996593	16 minutes ago	0xfc6570da53efb857a02...	0x61e5bc1ee64d4ff0a4f7...
26cce3680333326f1bda5c4d2...	transfer	#255996593	16 minutes ago	0x976c53b16c20dc0dabb...	0x61e5bc1ee64d4ff0a4f7...
23a25d3c58c42ad506708a847...	transfer	#255996594	16 minutes ago	0xd45c9da42ab184b29f3...	0x61e5bc1ee64d4ff0a4f7...
bb97779fc35f753d407d37e121...	transfer	#255996594	16 minutes ago	0xa21979f75efcd2cdb0b...	0x61e5bc1ee64d4ff0a4f7...
e0e1b4fccc66ef2b3fad02e50ff...	transfer	#255996594	16 minutes ago	0xb277821de62bdf90fd...	0x61e5bc1ee64d4ff0a4f7...
eeaa4b5b5a08c075e1c3caa238...	transfer	#255996595	16 minutes ago	0xa32178325683f55a10e...	0x61e5bc1ee64d4ff0a4f7...
1201618645302580b943fc477...	transfer	#255996595	16 minutes ago	0xb2dae7549607add526...	0x61e5bc1ee64d4ff0a4f7...
66393c0940302a5ee5941125e...	transfer	#255996595	16 minutes ago	0x950578efb2ef3fa78349...	0x61e5bc1ee64d4ff0a4f7...
c20dc6fa63ac5ee7c6dac2fe57f...	transfer	#255996590	16 minutes ago	0x786078f034c2eb163ed...	0x61e5bc1ee64d4ff0a4f7...
79e1b9404ba1d8ed67c7eed74...	transfer	#255996590	16 minutes ago	0x87889a347d8d24bccb7...	0x61e5bc1ee64d4ff0a4f7...
a3344a84ea1a4703f8ec66fb5c...	transfer	#255996590	16 minutes ago	0x51bd5d7758be2e0b01...	0x61e5bc1ee64d4ff0a4f7...

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- Sometimes transactions with a higher block number are before the transaction with the lower block number :)
- Ex: 255996594 is before 255996593
- It's probably because the explorer sorts by timestamp, not block:

BLOCKS DETAILS

Details

Transactions

Block height

255996593

Timestamp

17 minutes ago

November 04, 2023 20:35:48 UTC

Transactions

4

Gas used

40,000

Gas limit

48,000,000,000,000

Block hash

0xe7ea38665297f20ec641c7a6a01d29bca10fb48d0efd7c5e8911bdbc37594c5b

Parent hash

0x2c93de9d8a90d2c1991359bc5c1b5530cebcf21a56d6a25c0e490e0d8bedcb4e

e.

BLOCKS DETAILS

Details

Transactions

Block height

255996594

Timestamp

17 minutes ago

November 04, 2023 20:35:48 UTC

Transactions

4

Gas used

40,000

Gas limit

48,000,000,000,000

Block hash

0x9893d665c1fb6018d1ab5574417dc3d22f30c63e9e05f5cf17335ddd8f0ef064

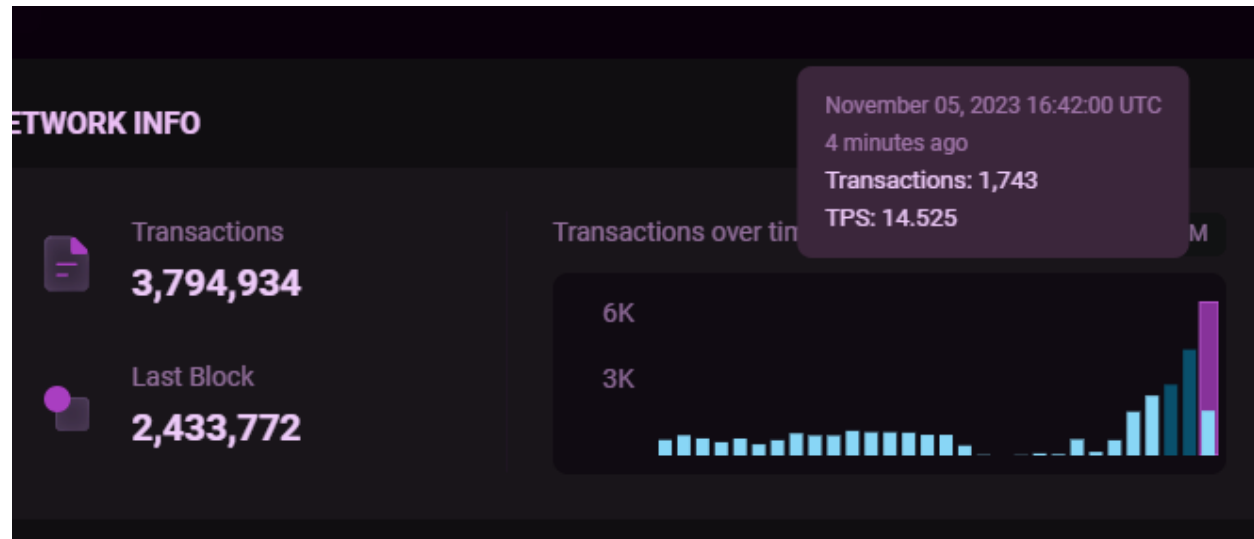
Parent hash

0xe7ea38665297f20ec641c7a6a01d29bca10fb48d0efd7c5e8911bdbc37594c5b

f.

- g. Both blocks have the same timestamp.

5. Explorer somewhat broken III:



- a.
- b. I spammed it even harder this time with 300 accounts - even this part of the explorer started to lag behind
6. If I spam it even harder - <https://devnet.neonevm.org> times out a lot more than <https://proxy.devnet.neonlabs.org/solana>
 - a. With 500 accounts
 - b. Both nodes seems slow - a nonce request takes 11 seconds
 - c. Yeah the RPC node is bricked - nvm just very slow:

Gas price (GWEI) *i* Gas limit *i*

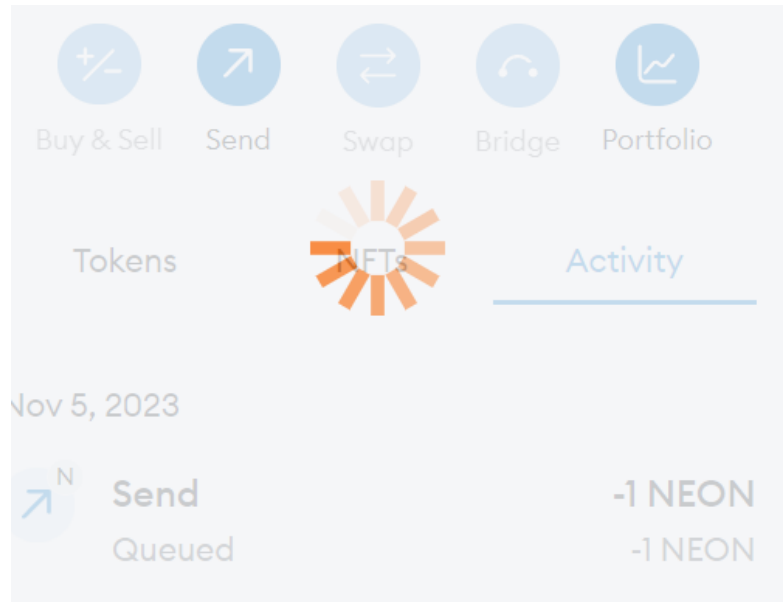
0 300000

Estimated gas fee *i* 0 0 NEON

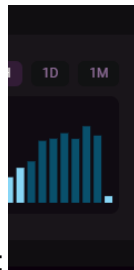
Max fee: 0 NEON

i You do not have enough NEON in your account to pay for transaction fees on Neon EVM DevNet network. Buy NEON or [deposit](#) from another account.

- d.
- e. It can't estimate gas



- f.
- g. Nvm it still works:
<https://devnet.neonscan.org/tx/0xe07ecc96f1d4fd5f656a20215f5d11d44e7f1b8ce0c0053917ae0fc88f1dd06b>
- h. Oh seems like the nodes only get really slow when I'm actively spamming it. The nodes are probably swamped by the requests. When I turn it off briefly the stats



regenerate very quickly:

- i.

Account List:

I accumulate some Neon in my "vault" wallet

(0xcf24D7b30B45bb5f29E0d05FDaEa8c2eE04C13bA) - I ping the faucet every 65 seconds to get 100 Neon (Did it through code - found the request format by looking at the faucet HTTP post request). I build the reserve then send it out to my proxy accounts

I just generated a random seed phrase, then generated all 100 priv and public keys from it.

Main account with the most nonces: 0x61e5bc1ee64d4ff0a4f73db7c171e39edbc2a4e

Other Accounts that are sending empty txns to the main account:

"0x61e5Bc1EE64D4Ff0A4F73db7c171e39edbc2A4E",
"0x976C53b16c20Dc0dAbBF629Ff19C392154542e6d",
"0xB2dae7549607aDD526D2f898F7d8C4305c1bBceB",
"0x1Daa795a66De4984472309fdBe94AB760c349a49",
"0x61c88F19451f87563bEF321A590D9Bbb1E7A0De9",
"0xE054516a84C0A32D4156621f7593327Cd7F80887",
"0x5946f78295BbFe19c8A4cb70F2066f93eFDcB2d3",
"0x9BC552945b28058cC4Cf50d90D14a36128229ac6",
"0x8EFA72FcDcCA331249655915E5972b09F3Ca1D1d",
"0x4C27BC13a59C88cFED775761CCE9CC3A3BBC555C",
"0x19bF407Aa4863B14290Bd5A75fbBEc4Ab86fA20b",
"0x10799cf8760D71722C809EA2D92fDBb3d0Bc5b8C",
"0xAd5C1d21D703d60B99405771DebdDce216e5a541",
"0xd02d88ff08eed9F23b8F93Cdd1852d4224622154",
"0xFD254eD0AB24fCaD7d90430Efd38c1dc64E9616a",
"0x964123ea96da2dEBcDEd89D39D2774059b204f9D",
"0x5954559C5C8004806C2787Ef1B21c691C4f8D23d",
"0x593f9E1A48fE2f471E3e9937E8D24Ab5Eb462240",
"0x324fB8ceb98BE5EA8bA04264dABdea2B43FAF28e",
"0xefC7fb68947b92bE92278BC667cb1877973597d6",
"0x99D71410D097f5F772191566A86aab826bFbE4d4",
"0xb720Cb19D8696e276A1d4Bd8CA3DD34D2fC4df63",
"0xFc6570da53eFB857A02B3261F8a411C4C8605aB8",
"0xb6939Fff7460aFb61b0Caf2C6b62b3D9252864a6",
"0x40DF86846144bA39b7ECC7013Dbd42a99784420A",
"0x4CBCA4303DAffCA7008D7A8EB74729abDf365D7c",
"0x912085Da7611049c1138a72907718fC78894b998",
"0x29D92859e6abF4D759e2a0907b22aD829a85D1BE",
"0xFF16B50d10706E32De589add5D10594c2D6404A5",
"0x9fD98dB57E01DD5722e83C505881FFb9E54AF2C0",
"0xfa2087e554025F5A6bb8c5d8fA8f28557A410FB7",
"0x6185994DFE0970978fd978851A6c24fB6D07fBEf",

"0xAADed7d9B5147e216785e4De5E4611449B0b9aad",
"0x298aF5c0Ba39F68940608AbD7E5F9ae006405b4A",
"0xC7e627aA5f0263f950E10edccB0D5EdcA653D138",
"0xa20c4b81F9Ed53a858633362B182b2826159004e",
"0x2078e2e437684b516a0d9E47FB324453F7734682",
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"0x5965433879154F32242621e4441594AFd22aB791",
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"0xf41430fc7EC76b393D5C3848095585D31015cD98",
"0x3c9d587D9eBEf102Cc994A48E30f8Fbf8D1B57Ea",
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"0xba398b87c2350c38384250a821Eb9212315d84e5",
"0xb68a4c380f434065aa0E0Bd7Cfe327bE0c336372",
"0xc9Db043B97f33B0f5fB372C552cf2cB54fB4C98F",
"0x52312183214930bFf1F62FfA8Ae40b610A2E3358",
"0xa21979F75EFCD2CDb0B4A66FF2B9D81922334B1F",
"0xffA2C990347DA70b3a85799aC231b1d4f66cca21",
"0x87889a347D8d24bCcB7Ef765F3d3CB4bEADB52a0",
"0x0B53976A11d7A1229B97718AEB417ad44A1Fa7CC",
"0xeDF4CCD893cB8B30e2008187cA45E7b9Fbb1E901",
"0x9d0CfC0f4C93668A67Cb5DB0074c5585220325b0",
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"0x950578eFb2ef3Fa78349a908E0499B1d5e5A9452",
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"0x8Ef31594Ae5BB398d6Ffd531623F7cf243fCb4e",
"0xb29d335694e147FCb9e143207150E8029A725204",

"0x8bAb393FB4b810B7FD520E6c672d20AF4E2521b3",
"0x9ec883651094331d7c9E342b39685f8E16c640D5",
"0x93501C7B37257a61852b3cEEc0D81709F71C1BEb",
"0x6D768D25e3017942E2E3A8a77764A0978e43b777",
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"0x8ec4c121242527fF39Af763c5F459c1EfEE683Ec",
"0x6B17751187433987C2f04dc615143A11Eb052Aa9",
"0x9765a46F32c30E7Bd08f90F14121D899168a86E7",
"0x02969b9868734E9234852Bc17BcB580d9F55b567",
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"0x507826cb4421c5FD52ba117FFeF243e4d9af9B61",
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"0x30e03601f64416466Ddb124C4030fA826C281C05",
"0xE65a6E8eE52FAca0d67f8aD84853eB9F058eFc92",
"0xaD092dDeed3329c405D9eCbcC09b7Fc8fc8DCdCc",
"0xA32178325683F55A10E9EC5908f0F2eA20001B50",
"0xddda8a7ccfC4221Dab987757d1DB0b80220C8210",
"0x729a6e26D915e1EDf4c08d81a064F1938Fe54c93",
"0xd45C9dA42aB184b29F30469F0b59c4f2943020b2",
"0x518138A996929DDC84177Fd6c0241F660E52fDE0",
"0xe262496543080c4a6Eb9f31ea7cbc29b1e15D124",
"0x1dc580f1410fF119eD9775E5582e162d42DD130b",