

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Has h	Value	S-K
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Miners

Named

1. **Nanopool:**
 - a. Addres: <https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5>
 - b. <https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5>
 - c. <https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5>
 - d. <https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5>
2. **Supranova 2:**
 - a. 0x63a9975ba31b0b9626b34300f7f627147df1f526
3. **DWARF POOL**
 - a. [0x2a65aca4d5fc5b5c859090a6c34d164135398226](https://etherscan.io/address/0x2a65aca4d5fc5b5c859090a6c34d164135398226) (DwarfPool)
4. **ETH POOL 2:**
 - a. [0x4bb96091ee9d802ed039c4d1a5f6216f90f81b01](https://etherscan.io/address/0x4bb96091ee9d802ed039c4d1a5f6216f90f81b01) (Ethpool 2)
5. **Coinotron 1:**
 - a. [0xf8b483dba2c3b7176a3da549ad41a48bb3121069](https://etherscan.io/address/0xf8b483dba2c3b7176a3da549ad41a48bb3121069) (Coinotron 1)

Unnamed

6. Address: <https://etherscan.io/address/0x0338116f55fed2f5ee9391c8624612dc9744d149>
7. Address: <https://etherscan.io/address/0x98499d3218782eeb1ccd8651eef3bab9a8443fad>
8. Address: <https://etherscan.io/address/0x95581ea0c5b362933f3523138f54d51eae817211>
 - a. Address: <https://etherscan.io/address/0x95581ea0c5b362933f3523138f54d51eae817211>
9. Address: <https://etherscan.io/address/0x9baa5b8b01eabeb0786e7620d89fd64e6f00a9a9>
10. Address: <https://etherscan.io/address/0x738db714c08b8a32a29e0e68af00215079aa9c5c>
 - a. [0x738db714c08b8a32a29e0e68af00215079aa9c5c](https://etherscan.io/address/0x738db714c08b8a32a29e0e68af00215079aa9c5c)
 - b. Address: [0x738db714c08b8a32a29e0e68af00215079aa9c5c](https://etherscan.io/address/0x738db714c08b8a32a29e0e68af00215079aa9c5c)
 - c. [0x738db714c08b8a32a29e0e68af00215079aa9c5c](https://etherscan.io/address/0x738db714c08b8a32a29e0e68af00215079aa9c5c)
 - d. [0x738db714c08b8a32a29e0e68af00215079aa9c5c](https://etherscan.io/address/0x738db714c08b8a32a29e0e68af00215079aa9c5c)
11. Address: [0x68d7041f85e5b0d56da03064ab66fd7983715225](https://etherscan.io/address/0x68d7041f85e5b0d56da03064ab66fd7983715225)
12. Address: <https://etherscan.io/address/0xcb3a3acc2a80678f1a3ec72d6593ab47ccf1b8e0>
13. Address: [0xd8ddb0070aee305fc05be67ecab7e2979e940404](https://etherscan.io/address/0xd8ddb0070aee305fc05be67ecab7e2979e940404)
14. Address: [0xd8ddb0070aee305fc05be67ecab7e2979e940404](https://etherscan.io/address/0xd8ddb0070aee305fc05be67ecab7e2979e940404)

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Has h	Value	S-K
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Named Entities in Transactions

Entities involved in

1. Drawf Pool
 - a. Address: <https://etherscan.io/address/0x2a65aca4d5fc5b5c859090a6c34d164135398226>
2. Oraclize (Provable)
 - a. Address: <https://etherscan.io/address/0x26588a9301b0428d95e6fc3a5024fce8bec12d51>
3. Polneix
 - a. Address: <https://etherscan.io/address/0x32be343b94f860124dc4fee278fdbcdb38c102d88>
4. Suprnova 2
 - a. Address: <https://etherscan.io/address/0x63a9975ba31b0b9626b34300f7f627147df1f526>
5. Ethpool
 - a. Address: <https://etherscan.io/address/0x4bb96091ee9d802ed039c4d1a5f6216f90f81b01>
6. Coinotron 1
 - a. Address: <https://etherscan.io/address/0xf8b483dba2c3b7176a3da549ad41a48bb3121069>
7. Nanopool
 - a. Address: <https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5>
8. Bitrex
 - a. Address: <https://etherscan.io/address/0xfbb1b73c4f0bda4f67dca266ce6ef42f520fbb98>
9. Shapeshift 1
 - a. Address: <https://etherscan.io/address/0x120a270bbc009644e35f0bb6ab13f95b8199c4ad>
10. Cryptsy.com
 - a. Address: <https://etherscan.io/address/0xc47aaa860008be6f65b58c6c6e02a84e666efe31>

Unnamed

To

1. Address: <https://etherscan.io/address/0xf5d68c5de62c9d1e644285c07a5fc15631b16350>
2. Address: <https://etherscan.io/address/0x960d24243cc5231ca447ba09272ab32ad8073df8>
3. Address: <https://etherscan.io/address/0x3e78bc3fb5560ea880b1d606535ce356839cc5d0>
4. Address: <https://etherscan.io/address/0x45c1392523399c1ce21ead4ecb808606c189fac2>
5. Address: <https://etherscan.io/address/0xcb01e47c5954fd3018bf2d4d154c7254a4c37fb0>
6. Address: <https://etherscan.io/address/0x7fb0fddbbfea53812cf3c8c51c43195f42250e40>
7. Address: <https://etherscan.io/address/0x949a7396590a183661048391f34bb7029ccd7f4e>
8. Address: <https://etherscan.io/address/0xcb01e47c5954fd3018bf2d4d154c7254a4c37fb0>
9. Address: <https://etherscan.io/address/0x03c8aff00788d3f1bfd597694f0086600ff09685>
10. Address: <https://etherscan.io/address/0xcb01e47c5954fd3018bf2d4d154c7254a4c37fb0>
11. Address: <https://etherscan.io/address/0xa6191639b137cd47600a5242391a592f28a2c5a6>
12. Address: <https://etherscan.io/address/0xae2c0994a5863ddd5854254752bf2fa9ace23326>
13. Address: <https://etherscan.io/address/0x8aeaaa4f505396d24b783ba68694b10b1a3f0bce>
14. Address: <https://etherscan.io/address/0x8aeaaa4f505396d24b783ba68694b10b1a3f0bce>
15. Address: <https://etherscan.io/address/0x55553e3b2d1e517f44fd4ea8354d171d69637b48>
16. Address: <https://etherscan.io/address/0x5b5572b3a19bac3bcd84308223e25b607187282b>
17. Address: <https://etherscan.io/address/0xd56b29381a8684011f810a47ebb390f8551348ae>
18. Address: <https://etherscan.io/address/0xab41925d69aaec7a47572ca88c36380e4cc9f9ee>
19. Address: <https://etherscan.io/address/0xd56b29381a8684011f810a47ebb390f8551348ae>
20. Address: <https://etherscan.io/address/0xd56b29381a8684011f810a47ebb390f8551348ae>
21. Address: <https://etherscan.io/address/0xd56b29381a8684011f810a47ebb390f8551348ae>
22. Address: <https://etherscan.io/address/0x4a29df8a7967b36664f256f18dacf2e58e9f1e7e>
23. Address: <https://etherscan.io/address/0x900ded2ec098c430cad5347e6f3322932d7bb3a9>
24. Address: <https://etherscan.io/address/0x24766c0d149d056efb53f233b4f610a1bccffb3>

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Has h	Value	S-K
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From

1. Address: <https://etherscan.io/address/0x1c8fd445ec328d5ad9805a4dedc29598185d70ad>
2. Address: <https://etherscan.io/address/0x4191346f84a41ad3f71b3cb9b22444b8f67847fa>
3. Address: <https://etherscan.io/address/0xc7696b27830dd8aa4823a1cba8440c27c36adec4>
4. Address: <https://etherscan.io/address/0x7b46cd193eabff2cc6826e3e08bf513eee9d77e1>
5. Address: <https://etherscan.io/address/0x32e8e5bef7aa16f59a4f56285c1b9ad5250272f4>
6. Address: <https://etherscan.io/address/0x7b46cd193eabff2cc6826e3e08bf513eee9d77e1>
7. Address: <https://etherscan.io/address/0x7d085da7ae978f05636671a339627baa97462ac7>
8. Address: <https://etherscan.io/address/0xc4a673993220f6aca6a2190989b7969c94f18074>
9. Address: <https://etherscan.io/address/0x3060bfe832362e013daf4bc2516dc3f8adfd5b69>
10. Address: <https://etherscan.io/address/0xe8ed446a81cfa3f81e54248ccecee1b2d74e2d8f>
11. Address: <https://etherscan.io/address/0x45060b5cee190661fa27d1e189f431f7b2b52275>
12. Address: <https://etherscan.io/address/0xefd77bdf70b440cd0533118a6388e2d393bed01>
13. Address: <https://etherscan.io/address/0xd4dc4b9843c73687bfc779afb40669da5f766ef6>
14. Address: <https://etherscan.io/address/0xa38ab7d54df4544e2f962d308bd8b085fea9903d>
15. Address: <https://etherscan.io/address/0xef04af5cc0c757621e4d5286bffb8869159ddad3>
16. Address: <https://etherscan.io/address/0xe8979ed3e00d68d395fa3e3cfe40ff67402c402a>
17. Address: <https://etherscan.io/address/0xf9cdc37400e603072a8af3994d9ba913df723c56>
18. Address: <https://etherscan.io/address/0x7b46cd193eabff2cc6826e3e08bf513eee9d77e1>
19. Address: <https://etherscan.io/address/0x3060bfe832362e013daf4bc2516dc3f8adfd5b69>
20. Address: <https://etherscan.io/address/0x2bcc5943c2264648824ee9a479c351c74273453>
21. Address: <https://etherscan.io/address/0x3060bfe832362e013daf4bc2516dc3f8adfd5b69>
22. Address: <https://etherscan.io/address/0x06ec48800b2db3eefa052e98a9b5fc2bf783ee74>
23. Address: <https://etherscan.io/address/0x13ed72698182ad937d2ac19da03d612201825cb5>
24. Address: <https://etherscan.io/address/0x8f4f431003b3dfb85529fe5b6d296770628d3bd7>
25. Address: <https://etherscan.io/address/0xf18446bcc37b179f7ccc3de19387269ce04023f1>
26. Address: <https://etherscan.io/address/0x8d4eac10d68745e2a8c36ab33c5c3961ed4b71be>
27. Address: <https://etherscan.io/address/0x8d4eac10d68745e2a8c36ab33c5c3961ed4b71be>
28. Address: <https://etherscan.io/address/0x295f7067f6e4182a32a4eff344af3daadfde10e5>
29. Address: <https://etherscan.io/address/0x3885b0c18e3c4ab0ca2b8dc99771944404687628>
30. Address: <https://etherscan.io/address/0xf442c4ab4d8cf106bcd6b1f7994485f3f4291a9>
31. Address: <https://etherscan.io/address/0x2a0776a97b13908406ea23ad1947dc57ef00f50b>
32. Address: <https://etherscan.io/address/0xaa9485eba854aba86bfdd64c8f4f08badd0f31c3>
33. Address: <https://etherscan.io/address/0xe98078636c06b1a990fbc57ddd4c76ada305606>
34. Address: <https://etherscan.io/address/0x5d0b4ea1ce06693b853c3e7890a3d427755f67bb>
35. Address: <https://etherscan.io/address/0x42e6723a0c884e922240e56d7b618bec96f35800>
36. Address: <https://etherscan.io/address/0x1194e966965418c7d73a42cceb254d875860356>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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Entities with Ability to Access Ethereum by gateway or DDOS:

- Citrix
- VMWare
- Cloudflare;
- Binary Edge AG
- Others

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Has h	Value	S-K
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Assumptions

- 1. **TXN Fee:** Each TXN fee was approximately 0.002 Ether – 12 CAD

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Hash	Value	S-K
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Glossary from Ethereum

1. **51% attack:** A type of attack¹² on a decentralized [NETWORK](#) where a group gains **CONTROL**³ of the majority of [NODES](#)⁴.
 - a. This would allow them to **defraud** the **BLOCKCHAIN** by reversing [TRANSACTIONS](#) and double spending [ether](#) and other **TOKENS**.
2. **Account:** An object containing an [address](#), balance, [nonce](#)⁵, and optional storage and code.
 - a. An account can be a:
 - i. [contract account](#) or an
 - ii. [externally OWNED account \(EOA\)](#)⁶.
3. **Address:** Most generally, this represents an [EOA](#) or [contract](#) that can receive (destination address) or send (source address) [TRANSACTIONS](#) on the **BLOCKCHAIN**.
 - a. More specifically, it is the rightmost 160 bits of a [Keccak hash](#) of an [ECDSA PUBLIC KEY](#).
4. **An Application Programming Interface (API)** is a set of definitions for how to use a piece of software.
 - a. An API sits between an application and a web server, and facilitates the transfer of **DATA** between them
5. **Attestation**⁷: A validator vote for a [Beacon](#)⁸ [Chain](#) or [shard block](#). Validators **Must** attest to blocks, **SIGN**aling that they **AGREE** with the state proposed by the block.
6. **Beacon Chain:** An Eth2 upgrade that will become the coordinator for the **ETHEREUM NETWORK**.
 - a. It introduces [proof-of-STAKE](#) and [validators](#) to **ETHEREUM**.
 - i. It will eventually be merged with [Mainnet](#)⁹.
7. **Block:** A **COLLECTION** of required information (a block header) about the comprised [TRANSACTIONS](#), and a set of other block headers known as [ommers](#)¹⁰.
 - a. Blocks are added to the **ETHEREUM NETWORK** by [miners](#).
8. In **ETHEREUM**, a sequence of [blocks](#) validated by the [proof-of-work](#) system, each linking to its predecessor all the way to the [genesis block](#).
 - a. There is no block size limit; it instead uses varying [gas limits](#).
9. **Bytecode:** An abstract instruction set de**SIGN**ed for efficient execution by a *software interpreter* or a virtual machine.
 - a. Unlike human-readable source code, bytecode is expressed in *numeric format*.
10. **Compiling:** Converting code written in a high-level programming language (e.g., [Solidity](#)) into a lower-level language (e.g., EVM [bytecode](#)).
11. **Committee**¹¹: A group of at least 128 [validators](#)¹² as**SIGN**ed to beacon and shard blocks at random by [the Beacon Chain](#)
12. **Consensus:** When numerous **NODES** (usually most **NODES** on the **NETWORK**) all have the same blocks in their locally validated best **BLOCKCHAIN**. **NOT** to be confused with [consensus rules](#).

¹IC: 76

²See also: STINGRAY ATTACK; see also: armycounterattack;bruteforceattack; “weakandcanbecrackedby determiendattackediwithtutremdneusexpenses”; “serviceattack”; “roolbackattack” “saltleghtyrecovey; check recovery; “coercetheserver”; “enteringSYnattackresistancemode”; burtalattackplan; “attackontitan”; “successfulattackonnetwork” (see: also governingthemanagementofcirticalorgnizationalsssets); 2DL008titnattach; “denialofserviceattack”

³IC: 13,000

⁴Inflated code: 6818

⁵IC: 821

⁶Inflated Code: 1003

⁷IC: 24

⁸IC: 16

⁹IC: 6

¹⁰IC: 486

¹¹IC: 8

¹²IC: 451

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13. **DAO:** A company or other organization that operates without hierarchical management.
 - a. DAO may also refer to a contract named "The DAO" launched on April 30, 2016, which was then hacked in June 2016; this ultimately motivated a [hard fork](#) (codenamed DAO) at block 1,192,000, which reversed the hacked DAO contract and caused **ETHEREUM** and **ETHEREUM Classic** to split into two competing systems.
14. **DAPP:** A type of [dapp](#) that lets you swap **TOKENS** with **PEERS** on the **NETWORK**. You need [ether](#) to use one (to pay [TRANSACTIONS fees](#)) but they are **NOT** subject to geographical restrictions like centralized exchanges – anyone can **PARTICIPATE**.
15. **Deed:** NFT
16. **Defi:** hort for "decentralized finance," a broad category of [dapps](#) aiming to provide financial services backed by the **BLOCKCHAIN**, without any **intermediaries**, so *anyone* with an *internet connection* can **PARTICIPATE**.
17. **Difficulty:** A **NETWORK**-wide setting that **CONTROLS** how much computation is required to produce a [proof-of-work](#)
18. **Difficulty¹³ bomb:** Planned exponential increase in [proof-of-work difficulty](#) setting deSIGNed to motivate the transition to [proof-of-STAKE](#), reducing the chances of a [fork](#)
19. **Digital SIGNature:** A short string of **DATA** a **USER** produces for a document using a [PRIVATE KEY](#) such that anyone with the corresponding [PUBLIC KEY](#), the **SIGNature**, and the document can verify that
 - a. (1) the document was "SIGNed" by the **OWNER** of that particular **PRIVATE KEY**, and
 - b. (2) the document was **NOT** changed *after* it was SIGNed.
20. **ECDSA¹⁴:** A cryptographic algorithm used by **ETHEREUM** to ensure that funds can only be spent by their **OWNERS**.
 - a. It's the preferred method for creating **PUBLIC** and **PRIVATE KEYS**.
 - b. Relevant for account [address](#) generation¹⁵ and [TRANSACTION](#) verification
21. **EIP:** A deSIGN document providing information to the **ETHEREUM** community, describing a proposed new feature or its processes or environment (see [ERC](#)).
22. **ENS:** The ENS registry is a single central [contract](#) that provides a *mapping* from domain names to **OWNERS** and **resolvers**, as described in [EIP](#) 137.
23. **Entropy¹⁶:** In the context of cryptography, *lack of predictability* or level of randomness.
 - a. When generating secret information, such as [PRIVATE KEYS](#), algorithms usually rely on a source of **high entropy** to ensure the output is *unpredictable*
24. **EOA¹⁷:** An [account](#) created by or for human **USERS** of the **ETHEREUM NETWORK**.
25. **ERC:** A label given to some [EIPs](#) that attempts to define a specific standard of **ETHEREUM** usage.
26. **Hash:** A fixed-length fingerprint of variable-size input, produced by a hash function. (See [keccak-256](#)).
27. **ICAP¹⁸:** An **ETHEREUM** address encoding that is partly compatible with the International Bank Account Number (IBAN) encoding, offering a versatile, checksummed, and interoperable encoding for **ETHEREUM** addresses.

¹³IC:2

¹⁴IC: 562

¹⁵IC: 3600

¹⁶IC: 88

¹⁷IC: 1003

¹⁸IC: 562

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- a. ICAP addresses use a new IBAN **PSEUDO**-country code- XE, standing for "eXtended **ETHEREUM**," as used in nonjurisdictional currencies
 - i. (e.g., XBT, XRP, XCP)
28. **IDE**: A **USER** interface that typically combines a code editor, compiler, runtime, and debugger.
29. **Index**: A **NETWORK** structure meant to optimize the querying of information from across the **BLOCKCHAIN** by providing an efficient path to its storage source
30. **Immutable¹⁹ Deployed Code Problem**: Once a [contract's](#) (or [library's](#)) code is deployed, it becomes immutable. Standard software development practices rely on being able to fix possible bugs and add new features, so this represents a challenge for **SMART CONTRACT** development.
31. **Internal TRANSACTION**: A [TRANSACTION](#) sent from a [contract account](#) to a **NOT**her contract account or an [EOA](#) (see [message](#)).
32. **KECAK-256**: Cryptographic [hash](#) function used in **ETHEREUM**. Keccak-256 was standardized as [SHA-3](#)
33. **KEYSTORE file**: A JSON-encoded file that contains a single (randomly generated) [PRIVATE KEY](#), encrypted by a passphrase for extra security
34. **KDF²⁰**: Also known as a "password stretching algorithm," it is used by [KEYSTORE](#) formats to protect against brute-force, dictionary, and rainbow table attacks on passphrase encryption, by repeatedly hashing the passphrase.
35. **Mainnet**: Short for "main **NETWORK**," this is the main **PUBLIC ETHEREUM BLOCKCHAIN**. Real ETH, real value, and real consequences.
 - a. Also known as layer 1 when discussing [layer 2](#) scaling solutions.
 - b. (Also, see [testnet](#)).
36. **Merke**: A **DATA** structure used in **ETHEREUM** to efficiently **STORE KEY**-value pair
37. **Message**: An [internal TRANSACTION](#) that is **never serialized** and only sent within the [EVM](#)²¹
38. **Miner²²**: A **NETWORK NODE** that finds valid [proof-of-work](#) for new blocks, by repeated pass hashing (see [Ethash](#)).
39. **NETWORK**: Referring to the **ETHEREUM NETWORK**, a peer-to-peer²³ ("P2P")²⁴ **NETWORK** that propagates **TRANSACTIONS** and blocks to every **ETHEREUM NODE (NETWORK participant)**.
40. **NFT**: Also known as a "deed," this is a token standard introduced by the ERC-721 proposal. NFTs can be tracked and traded, but each token is unique and distinct; they are **NOT** interchangeable like ETH and [ERC-20 TOKENS](#).
 - a. NFTs can represent **OWNERSHIP** of digital or physical assets
41. **NODE**: A software **CLIENT** that **PARTICIPATES** in the **NETWORK**.
42. **Nonce**: In cryptography, a value that can only be used once. There are two types of nonce used in **ETHEREUM**- an account nonce is a **TRANSACTION** counter in each account, which is used to prevent replay attacks; a [proof-of-work](#) nonce is the random value in a block that was used to satisfy the [proof-of-work](#)

¹⁹IC: 82

²⁰IC: 786

²¹IC: 3486

²²IC: 59

²³IC: 42

²⁴IC: 1972

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43. **Ommers:** When a [miner](#) finds a valid [block](#), a *NOT*her miner may have published a competing block which is added to the tip of the **BLOCKCHAIN** first. This valid, but stale, block can be included by newer blocks as *ommers* and receive a partial block reward. The term "ommer" is the preferred gender-neutral term for the sibling of a parent block, but this is also sometimes referred to as an "uncle".
44. **Optimistic rollup:** A [rollup](#) of **TRANSACTIONS** that use [fraud proofs](#) to offer increased [layer 2](#) **TRANSACTION** throughput while using the security provided by [Mainnet](#) (layer 1). Unlike [Plasma](#), a similar layer 2 solution, Optimistic rollups can handle more complex **TRANSACTION** types – anything possible in the [EVM](#). They do have latency issues compared to [Zero-knowledge rollups](#) because a **TRANSACTION** can be challenged via the fraud proof.
45. **Oracle:** An oracle is a bridge between the [BLOCKCHAIN](#) and the real world. They act as on-chain [APIs](#) that can be queried for information and used in [SMART CONTRACT](#)
46. **Parity:** One of the most prominent interoperable implementations of the **ETHEREUM CLIENT** software
47. **Plasma**²⁵: An off-chain scaling solution that uses [fraud proofs](#), like [Optimistic rollups](#). Plasma is limited to simple **TRANSACTIONS** like basic token transfers and swaps
48. **PRIVATE KEY (Secret KEY**²⁶): A secret number that allows **ETHEREUM USERS** to prove **OWNERSHIP** of an:
 - a. Account; or
 - b. contracts, by producing a digital **Signature** (see [PUBLIC KEY](#), [address](#), [ECDSA](#)).
 - i. (note: 1200 **PRIVATE Keys** = 1200 users)
49. **POS:** A method by which a cryptocurrency **BLOCKCHAIN** protocol aims to achieve distributed [consensus](#). PoS asks **USERS** to prove **OWNERSHIP** of a certain amount of cryptocurrency (their "**STAKE**" in the **NETWORK**) in order to be able to **PARTICIPATE** in the validation of **TRANSACTIONS**. (Proof of Purchas)
50. **POW:** A piece of **DATA** (the proof) that requires **SIGNificant** computation to find. In **ETHEREUM**, [miners](#) **Must** find a numeric solution to the [Ethash](#) algorithm that meets a **NETWORK**-wide [difficulty](#) target.
51. **PUBLIC KEY:** A number, derived via a **one-way function** from a [PRIVATE KEY](#), which can be shared **PUBLICly** and used by anyone to verify a digital **SIGNature** made with the corresponding **PRIVATE KEY**
52. **Receipt:** **DATA** returned by an **ETHEREUM CLIENT** to represent the result of a particular [TRANSACTION](#), including a [hash](#) of the **TRANSACTION**, its [block](#) number, the amount of [gas](#) used, and, in case of deployment of a [SMART CONTRACT](#), the [address](#) of the contract
53. **Re-entrancy attack:** An attack that consists of an attacker contract calling a victim contract function in such a way that during execution the victim calls the attacker contract again, recursively. This can result, for example, in the theft of funds by skipping parts of the victim contract that update balances or count withdrawal amounts.
54. **Reward:** An amount of ether included in each new block as a reward by the **NETWORK** to the [miner](#) who found the [proof-of-work](#) solution.
55. **RLP:** An encoding standard de**SIGN**ed by the **ETHEREUM** developers to encode and serialize objects (**DATA** structures) of arbitrary complexity and length
56. **Rollups:** A type of [layer 2](#) scaling solution that batches multiple **TRANSACTIONS** and submits them to [the ETHEREUM main chain](#) in a single **TRANSACTION**. This allows for reductions in [gas](#) costs and increases in [TRANSACTION](#) throughput. There are Optimistic and Zero-knowledge rollups which use different security methods to offer these scalability gains.
57. **SHA:** A family of cryptographic hash functions published by the National Institute of Standards and Technology (NIST).

²⁵Plasma: 3

²⁶1200 approximately: who are these pseudoanonymous persons who collected, used, accessed, disclosed, or disposed of PI or records

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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58. **SHARD:** A [proof-of-STAKE](#) chain that is coordinated by the [Beacon Chain](#) and secured by [validators](#).
- There will be 64 added to the **NETWORK** as part of the Eth2 shard chain upgrade.
 - Shard chains will offer increased **TRANSACTION** throughput for **ETHEREUM** by providing additional **DATA** to [layer 2](#) solutions like [optimistic rollups](#) and [ZK-rollups](#).
59. **Sidechain:** A scaling solution that uses a separate chain with different, often faster, [consensus rules](#). A bridge is needed to connect these sidechains to [Mainnet](#). [Rollups](#) also use sidechains, but they operate in collaboration with [Mainnet](#) instead
60. **Slot:** A period of time (12 seconds) in which a new [Beacon Chain](#) and [shard](#) chain block can be proposed by a [validator](#) in the [proof-of-STAKE](#) system. A slot may be empty. 32 slots make up an [epoch](#).
61. **SMART CONTRACT:** A program that executes on the **ETHEREUM** computing infrastructure.
62. **Solidity:** A procedural (imperative) programming language with syntax that is similar to JavaScript, C++, or Java. The most popular and most frequently used language for **ETHEREUM** [SMART CONTRACTs](#).
- Created by Dr. Gavin Wood
63. **Spurious²⁷ Dragon:** A [hard fork](#) of the **ETHEREUM BLOCKCHAIN**, which occurred at block 2,675,000 to address more denial-of-service attack vectors and clear state (see [Tangerine Whistle](#)). Also, a replay attack protection mechanism (see [nonce](#)).
64. **Staking²⁸:** Depositing a quantity of [ether](#) (your **STAKE**) to become a validator and secure the [NETWORK](#). A validator checks [TRANSACTIONS](#) and proposes [blocks](#) under a [proof-of-STAKE](#) consensus model. Staking gives you an economic incentive to act in the best interests of the **NETWORK**. You'll get rewards for carrying out your [validator](#) duties, but lose varying amounts of ETH if you don't.
65. **Szabo²⁹:** A denomination of [ether](#). 1 szabo = 10¹² [wei](#), 10⁶ szabo = 1 ether.
66. **Token standard:** Introduced by ERC-20 proposal, this provides a standardized [SMART CONTRACT](#) structure for fungible **TOKENS**. **TOKENS** from the same contract can be tracked, traded, and are interchangeable, unlike [NFTs](#).
67. **Transction:** **DATA** committed to the **ETHEREUM BLOCKCHAIN** **SIGN**ed by an originating [account](#), targeting a specific [address](#).
- The **TRANSACTION** contains **METADATA** such as the [gas limit](#) for that **TRANSACTION**.
68. **Turing:** A concept named after English mathematician and computer scientist Alan Turing- a system of **DATA-manipulation** rules (such as a computer's instruction set, a programming language, or a cellular automaton) is said to be "Turing complete" or "computationally universal" if it can be used to simulate any Turing machine
69. **Validator:** A [NODE](#) in a [proof-of-STAKE](#) system responsible for storing **DATA**, processing **TRANSACTIONS**, and adding new blocks to the **BLOCKCHAIN**. To active validator software, you need to be able to [STAKE](#) 32 ETH.
70. **Valid Proof:** A security model for certain [layer 2](#) solutions where, to increase speed, **TRANSACTIONS** are [rolled up](#) into batches and submitted to **ETHEREUM** in a single **TRANSACTION**.
- The **TRANSACTION** computation is done off-chain and then supplied to the main chain with a proof of their validity. This method increases the amount of **TRANSACTIONS** possible while maintaining security. Some [rollups](#) use [fraud proofs](#).

²⁷IC: 2
²⁸IC: 166
²⁹IC: none

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Hash	Value	S-K
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71. **Validum**³⁰: An off-chain solution that uses [validity proofs](#) to improve **TRANSACTION** throughput. Unlike [Zero-knowledge rollups](#), Validium **DATA** isn't **STOREd** on layer 1 [Mainnet](#).
72. **Vyper**³¹: A high-level programming language with **Python-like syntax**.
 - a. Intended to get closer to a pure functional language.
 - b. Created by Vitalik Buterin.
73. **Wallet**: Software that holds [PRIVATE KEYS](#). Used to access and **CONTROL ETHEREUM accounts** and interact with [SMART CONTRACTs](#). **KEYs** need **NOT** be **STOREd** in a wallet, and can instead be retrieved from offline storage (i.e. a memory card or paper) for improved security. Despite the name, wallets never **STORE** the actual coins or **TOKENS**.
74. **Web3**³²(“W3”)³³: The third version of the web.
 - a. First proposed by Dr. Gavin Wood, Web3 represents a new vision and focus for web applications- from centrally **OWNED** and managed applications, to applications built on **decentralized protocols** (see [Dapp](#)).
75. **Zero knowledge rollup**: A [rollup](#)³⁴ of **TRANSACTIONs** that use [validity proofs](#) to offer *increased layer 2 TRANSACTION* throughput while using the security provided by [Mainnet](#) (layer 1).
 - a. Although they can't handle complex **TRANSACTION** types, like [Optimistic rollups](#), they don't have latency issues because **TRANSACTIONs** are provably valid when submitted.

³⁰IC: none

³¹IC: 1

³²IC: 12

³³IC: 71000

³⁴IC: 5

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Hash	Value	S-K
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Glossary from Ethereum Scan

1. **Block Height:** aka Block Number – the length of the blockchain
2. **Timestamp:** date and time when block was mined
3. **Transactions:** number of transactions within the block
4. **Mined by:** miner who successfully included the block in the blockchain
5. **Block reward:** miner is awarded a finite amount of fees for the amount mined in addition to transaction fees
6. **Uncles Reward:** lower amount
7. **Difficulty:** difficult to mine a block – may adjust over time –
8. **Total Difficulty:** from the previous chain until the block
9. **Size:** block size determined by Gas Limit
 - a. **Gas Used:** Total Gas Use to fill the block with (percentage)
 - b. **Gas Limit:** total gas limit by all transactions in the block

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Hash	Value	S-K
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#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Hash	Value	S-K
1.	51965	Link ³⁵	0		5 ³⁶ https://etherscan.io/address/0x0338116f55fed2f5ee9391c8624612dc9744d149	0	N/A	N/A	N/A	N/A	N/A	N/A
2.	52412 ³⁷	Link	0		5 ³⁸ https://etherscan.io/address/0x98499d3218782eeb1ccd8651eef3bab9a8443fad	0	N/A	N/A	N/A	N/A	N/A	N/A
3.	481134 ³⁹	Link ⁴⁰	6 ⁴¹	1217	5 (Ethpool 2) ⁴²	0	N/A	N/A	N/A	N/A	N/A	N/A
			A				https://etherscan.io/address/0xf5d68c5de62c9d1e644285c07a5fc15631b16350	Poloniex	Transfer	Hash	4	N
			B				Dwarf Pool	https://etherscan.io/address/0x1c8fd445ec328d5ad9805a4dedc29598185d70ad	Transfer	Hash	4	N
			C				Oracalize ⁴³	https://etherscan.io/address/0x4191346f84a41ad3f71b3cb9b22444b8f67847fa	Set Base Price	Hash		Y
			D				https://etherscan.io/address/0x960d24243cc5231ca447ba09272ab32ad8073df	Poloniex ⁴⁴	Transfer	Hash	4	N

³⁵<https://etherscan.io/block/51965>

³⁶<https://etherscan.io/address/0x0338116f55fed2f5ee9391c8624612dc9744d149>

³⁷<https://etherscan.io/block/52412>

³⁸<https://etherscan.io/address/0x98499d3218782eeb1ccd8651eef3bab9a8443fad>

³⁹<https://etherscan.io/block/481134>

⁴⁰<https://etherscan.io/block/481134>

⁴¹<https://etherscan.io/txs?block=481134>

⁴²<https://etherscan.io/address/0x4bb96091ee9d802ed039c4d1a5f6216f90f81b01>

⁴³Oracalize is now Provable

⁴⁴<https://poloniex.com/>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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							8					
			E				https://etherscan.io/address/0x3e78bc3fb5560ea880b1d606535ce356839cc5d0	Poloniex	Transfer	Hash	20	N
			F				https://etherscan.io/address/0x45c1392523399c1ce21ead4ecb808606c189fac2	https://etherscan.io/address/0xc7696b27830dd8aa4823a1cba8440c27c36adec4	Set Price	Hash	0	Y
4.	523033 ⁴⁵	Link ⁴⁶	3	1395	5	0	https://etherscan.io/address/0x95581ea0c5b362933f3523138f54d51eae817211					
			A				Oracize ⁴⁷	https://etherscan.io/address/0x7b46cd193eabff2cc6826e3e08bf513eee9d77e1	Callback		0	N
			B				Conotron 1 ⁴⁸	https://etherscan.io/address/0x32e8e5bef7aa16f59a4f56285c1b9ad5250272f4	Transfer		5	
			C				Oracize ⁴⁹	https://etherscan.io/address/0x7b46cd193eabff2cc6826e3e08bf513eee9d77e1	Callback		0	N
5.	539165	Link ⁵⁰	0		5	0	(Nanopool) https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3					

⁴⁵Nonce: 0xbfb01862ed68ba21

⁴⁶<https://etherscan.io/block/523033>

⁴⁷<https://etherscan.io/address/0x26588a9301b0428d95e6fc3a5024fce8bec12d51>

⁴⁸<https://etherscan.io/address/0xf8b483dba2c3b7176a3da549ad41a48bb3121069>

⁴⁹<https://etherscan.io/address/0x26588a9301b0428d95e6fc3a5024fce8bec12d51>

⁵⁰<https://etherscan.io/block/539165>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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					b5							
6.	526102	Link ⁵¹	3 ⁵²		5 https://etherscan.io/address/0x95581ea0c5b362933f3523138f54d51eae817211	0						
			A				Suprnova 2 ⁵³	https://etherscan.io/address/0x7d085da7ae978f05636671a339627baa97462ac7		Hash	5	
			B				Dwarf Pool	https://etherscan.io/address/0xc4a673993220f6aca6a2190989b7969c9af18074		Hash	2.5	N
			C				https://etherscan.io/address/0xcb01e47c5954fdbc018bf2d4d154c7254a4c37fb0	https://etherscan.io/address/0x3060bfe832362e013daf4bc2516dc3f8adf5b69			0	Y
7.	519659	Link ⁵⁴	0		5 (Nanopool) https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5							
8.	526206	Link ⁵⁵	2 ⁵⁶		5 (Nanopool) https://etherscan.io/address/0x52bc44d5378309ee2abf							

⁵¹<https://etherscan.io/block/526102>

⁵²<https://etherscan.io/txs?block=526102>

⁵³<https://www.suprnova.cc/>

⁵⁴<https://etherscan.io/block/519659>

⁵⁵<https://etherscan.io/block/526206>

⁵⁶<https://etherscan.io/txs?block=526206>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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					1539bf71de1b7d7be3b5							
			A				Oraclize	https://etherscan.io/address/0xe8ed446a81cfa3f81e54248ccece1b2d74e2d8f			0	Y
			B				Ethpool	https://etherscan.io/address/0x45060b5cee190661fa27d1e189f431f7b2b52275			5	N
9.	518566	Link ⁵⁷	0		5	0		https://etherscan.io/address/0x9baa5b8b01eabeb0786e7620d89fd64e6f00a9a9				
10.	525177	link ⁵⁸	0		5	0		https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5				
					(Nanopool)							
11.	533372	Link ⁵⁹	3		5			0x63a9975ba31b0b9626b34300f7f627147df1f526 (Suprnova 2)				
							Nanopool	https://etherscan.io/address/0xefd77bdf70b440cd053311	Transfer	Txn ⁶⁰	23	N

⁵⁷<https://etherscan.io/block/518566>

⁵⁸<https://etherscan.io/block/525177>

⁵⁹<https://etherscan.io/block/533372>

⁶⁰<https://etherscan.io/tx/0xe5ceb3de5cf4f2d12184e089c85efd6eb10100f0c322afe29a620e492745bf17>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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								8a6388e2d393bed01				
							Nanopool	https://etherscan.io/address/0xd4dc4b9843c73687bfc779afb40669da5f766ef6	Transfer	Txn ₆₁	1	N
							https://etherscan.io/address/0x7fb0fddbbfea53812cf3c8c51c43195f42250e40	Bitrex https://etherscan.io/address/0xffbb1b73c4f0bda4f67dca266ce6ef42f520fbb98	Transfer	Txn ₆₂	52	N
12.	524121	Link ⁶³	2 ⁶⁴		5 (Dwarfpool) 0x2a65aca4d5fc5b5c859090a6c34d164135398226 (DwarfPool)							
13.			A				Dwarf Pool https://etherscan.io/address/0x2a65aca4d5fc5b5c859090a6c34d164135398226	https://etherscan.io/address/0x6964b95bf8ba16b837e2f3ae8da7d299553ec1f7	Transfer	Txn	5	
14.			B				Shapeshift 1	https://etherscan.io/address/0xa38ab7d54df4544e2f962d308bd8b085fe9903d	Transfer	Txn	35	
15.	488922	Link ⁶⁵	2 ⁶⁶		5 0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5 (Nanopool)							
			A				https://etherscan.io	https://etherscan.io	Execute		0	Y

⁶¹<https://etherscan.io/tx/0x151d2cb014e77ad3ab221c59f4865033635838a22336b78158883404602fad7f>

⁶²<https://etherscan.io/tx/0x2c21ed92e9cc129225d70e40cdc00da5e0de1a853e00bf6f60b57baa38be4ba>

⁶³<https://etherscan.io/block/524121>

⁶⁴<https://etherscan.io/txs?block=524121>

⁶⁵<https://etherscan.io/block/488922>

⁶⁶<https://etherscan.io/txs?block=488922> and internal: <https://etherscan.io/txsInternal?block=488922> ; contract = 0xef04af5cc0c757621e4d5286bffb8869159ddad3

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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							n.io/address/0x949a7396590a183661048391f34bb7029ccd7f4e	an.io/address/0xef04af5cc0c757621e4d5286bffb8869159ddad3				
			B				Add (frozen)	Add (frozen)	Call	Txn	18	
16.	516687	Link ⁶⁷	0		5 0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5 (Nanopool)	4	N/A	N/A	N/A	N/A	N/A	N/A
17.	426146	Link ⁶⁸	0		5 0x4bb96091ee9d802ed039c4d1a5f6216f90f81b01 (Eth pool 2)	0	N/A	N/A	N/A	N/A	N/A	N/A
18.	492964	Link ⁶⁹	0	541	5 0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5 (Nanopool)	0	N/A	N/A	N/A	N/A	N/A	N/A
19.	493127	Link ⁷⁰	0	543	5 https://netherescan.io/address/0x738db714c08b8a32a29e0e68af00215079aa9c5c		N/A	N/A	N/A	N/A	N/A	N/A
20.	515644	Link ⁷¹	0	541	5 https://netherescan.io/address/0x738db714c08b8a32a29e0e68af00215079aa9c5c	0	N/A	N/A	N/A	N/A	N/A	N/A

⁶⁷<https://netherescan.io/block/516687>

⁶⁸<https://netherescan.io/block/516687>

⁶⁹<https://netherescan.io/block/492964>

⁷⁰<https://netherescan.io/block/493127>

⁷¹<https://netherescan.io/block/515644>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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21.	524219	Link ⁷²	4		5 (Nanopool ⁷³)	0						
			A				Drawfpool	https://etherscan.io/address/0xe8979ed3e00d68d395fa3e3cfe40ff67402c402a	Transfer		1	N
			B				Ethpool 2	https://etherscan.io/address/0xf9cdc37400e603072a8af3994d9ba913df723c56	Transfer		5	N
			C				Oracize	https://etherscan.io/address/0x7b46cd193eabff2cc6826e3e08bf513eee9d77e1	Callback		0	Y
			D				https://etherscan.io/address/0xcb01e47c5954fd3018bf2d4d154c7254a4c37fb0	https://etherscan.io/address/0x3060bfe832362e013daf4bc2516dc3f8adf5b69	Ping		0	Y
22.	508428	Link ⁷⁴	3 ⁷⁵		5 (Coinotron) 0xf8b483dba2c3b7176a3da549ad41a48bb3121069 (Coinotron 1)	0						
			A				Oracize	https://etherscan.io/address/0x2bcc5943c2264648824ee9a479c351c74273453d	Set Base Price	Txn	0	Y
			B				https://etherscan.io/address/0x54cec426307c1a	Cryptsy.com (see: https://etherscan.io/address/0x54cec426307c1a)	Transfer	Txn	0	N

⁷²<https://etherscan.io/block/524219>

⁷³<https://etherscan.io/address/0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5>

⁷⁴<https://etherscan.io/block/508428>

⁷⁵<https://etherscan.io/txs?block=508428>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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							caa63b25aa48fade5df9e5d418	an.io/address/0xc47aaa860008be6f65b58c6c6e02a84e666efe31				
			C				https://etherscan.io/address/0x03c8aff00788d3f1bfd597694f0086600ff09685	Cryptsy.com (see: https://etherscan.io/address/0xc47aaa860008be6f65b58c6c6e02a84e666efe31)	Transfer	Txn	5	N
23.	496106	Link ⁷⁶	0		5 (Suprnova 2) 0x63a9975ba31b0b9626b34300f7f627147df1f526 (Suprnova 2)	0						
24.	524040	Link ⁷⁷	1		5 0xf8b483dba2c3b7176a3da549ad41a48bb3121069 (Coinotron 1)							
			A				https://etherscan.io/address/0xcb01e47c5954fd3018bf2d4d154c7254a4c37fb0	https://etherscan.io/address/0x3060bfe832362e013daf4b2516dc3f8adf5b69	Ping		0	Y
25.	519708	Link ⁷⁸	1 ⁷⁹		5 0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5 (Nanopool)	2.5						
			A				Ethpool 2	https://etherscan.io/address/0x06ec48800b		Txn		

⁷⁶[https://etherscan.io/block/496106](#)

⁷⁷[0x3060bfe832362e013daf4b2516dc3f8adf5b69](#); contract

⁷⁸[https://etherscan.io/block/519708](#)

⁷⁹[https://etherscan.io/txs?block=519708](#)

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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								2db3eefa052e98a9b5fc2bf783ee74				
26.	491792	Link⁸⁰	1⁸¹		5 0x68d7041f85e5b0d56da03064ab66fd7983715225	0						
			A				Suprnova 2 (see: https://etherscan.io/address/0x63a9975ba31b0b9626b34300f7f627147df1f526)	https://etherscan.io/address/0x13ed72698182ad937d2ac19da03d612201825cb5	Transfer	Txn	0.0175	
27.	496798	Link⁸²	0		5 0x2a65aca4d5fc5b5c859090a6c34d164135398226 (DrawfPool)	0						
28.	527170	Link⁸³	2⁸⁴		5 (Drawfpool) 0x2a65aca4d5fc5b5c859090a6c34d164135398226 (DrawfPool)	3						
			A				Suprnova 2	https://etherscan.io/address/0x8f4f431003b3dfb85529fe5b6d296770628d3bd7	Transfer	Txn	1	
			B				Suprnova 2	https://etherscan.io/address/0xf18446bcc37b179f7ccc3de19387269ce04023f1	Transfer	Txn	4	
29.	543414	Link⁸⁵	0		5 0x52bc44d5378309ee							

⁸⁰<https://etherscan.io/block/491792>

⁸¹<https://etherscan.io/txs?block=491792>

⁸²<https://etherscan.io/block/527170>

⁸³<https://etherscan.io/block/527170>

⁸⁴<https://etherscan.io/txs?block=527170>

⁸⁵<https://etherscan.io/block/543414>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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					2abf1539bf71de1b7d7be3b5 (Nanopool)							
30.	528033	Link ⁸⁶	0		5 0x63a9975ba31b0b9626b34300f7f627147df1f526 (Suprnova 2)							
31.	480195	Link ⁸⁷	4 ⁸⁸		5 0x738db714c08b8a32a29e0e68afa00215079aa9c5c	0						
			A				https://etherscan.io/address/0xa6191639b137cd47600a5242391a592f28a2c5a6	Poloniex	Transfer	Txn	2	N
			B				https://etherscan.io/address/0xae2c0994a5863ddd5854254752bf2fa9ace23326	Poloniex https://etherscan.io/address/0x32be343b94f860124dc4fee278fdcbd38c102d88	Transfer	Txn	10	N
			C				https://etherscan.io/address/0x8aeaaa4f505396d24b783ba68694b10b1a3f0bce	Poloniex https://etherscan.io/address/0x32be343b94f860124dc4fee278fdcbd38c102d88	Transfer	Txn	5	N
			D				https://etherscan.io/address/0x8aeaaa4f505396d24b783ba68694b10b1a3f0bce	Poloniex	Transfer	Txn	4	N
32.	489063	Link ⁸⁹	0		5 0x63a9975ba31b0b9626b34300f7f627147df1f526 (Suprnova 2)	3.125						

⁸⁶<https://etherscan.io/block/528033>

⁸⁷<https://etherscan.io/block/480195>

⁸⁸<https://etherscan.io/txs?block=480195>

⁸⁹<https://etherscan.io/block/489063>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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33.	514855	Link ⁹⁰	0		5 (Dwarfpool) 0x2a65aca4d5fc5b5c859090a6c34d164135398226 (DwarfPool)	0						
34.	514856	Link ⁹¹	0		5 0x738db714c08b8a32a29e0e68af00215079aa9c5c	0						
35.	560174	Link ⁹²	2 ⁹³		5 (Drawfpool) 0x2a65aca4d5fc5b5c859090a6c34d164135398226 (DwarfPool)	0						
			A				https://etherscan.io/address/0x55553e3b2d1e517f44fd4ea8354d171d69637b48	Poloniex	Transfer		2	N
			B				https://etherscan.io/address/0x5b5572b3a19bac3bcd84308223e25b607187282b	Poloniex	Transfer		1	N
36.	540914	Link ⁹⁴	1 ⁹⁵		5 0x2a65aca4d5fc5b5c859090a6c34d164135398226 (DwarfPool)	4						
			A				https://etherscan.io/address/0x	https://etherscan.io/address/			0	Y

⁹⁰<https://etherscan.io/block/514855>

⁹¹<https://etherscan.io/block/514856>

⁹²<https://etherscan.io/block/560174>

⁹³<https://etherscan.io/txs?block=560174>

⁹⁴<https://etherscan.io/block/540914>

⁹⁵<https://etherscan.io/txs?block=540914>

#	Block	T-Stamp	Txs	Size	RW	UNC	From	To	Method	Hash	Value	S-K
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							d56b29381a8684011f810a47ebb390f8551348a	0xab41925d69aaec7a47572ca88c36380e4cc9f9ee				
37.	501104	Link ⁹⁶	3		5	8	0x63a9975ba31b0b9626b34300f7f627147df1f526 (Suprnova 2)					
			A				https://etherscan.io/address/0xd56b29381a8684011f810a47ebb390f8551348a	https://etherscan.io/address/0x0x8d4eac10d68745e2a8c36ab33c5c3961ed4b71be	0xc943e51a (Weird)		0.01	Y
			B				https://etherscan.io/address/0xd56b29381a8684011f810a47ebb390f8551348a	https://etherscan.io/address/0x0x8d4eac10d68745e2a8c36ab33c5c3961ed4b71be	0xc943e51 (Weird)		0.01	Y
			C				Ethpool 2	https://etherscan.io/address/0x0x295f7067f6e4182a32a4eff344af3daadfde10e5	Transfer		5	N
38.	541074	Link ⁹⁷	3 ⁹⁸ (note: 2 INT)		5	0	https://etherscan.io/address/0xb3a3acc2a80678f1a3ec72d6593ab47ccf1b8e0					
			A				https://etherscan.io/address/0x4a29df8a7967b36664f256f18dacf2e58e9f1e7e	Poloniex ⁹⁹				
			B				Shapeshift 1 ¹⁰⁰	https://etherscan.io/address/0x0x3885b0c18e3c4ab0ca2b8dc99771944404			100	

⁹⁶<https://etherscan.io/block/501104>

⁹⁷<https://etherscan.io/block/541074>

⁹⁸<https://etherscan.io/txs?block=501104>

⁹⁹<https://etherscan.io/address/0x32be343b94f860124dc4fee278fdbcdb38c102d88>

¹⁰⁰<https://etherscan.io/address/0x120a270bbc009644e35f0bb6ab13f95b8199c4ad>

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Has h	Value	S-K
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								687628				
			C				Frozen	Frozen	Callcode			
39.	624625	Link¹⁰¹	0		5		N/A	N/A	N/A	N/A	N/A	N/A
40.	604719	Link¹⁰²	0		5		N/A	N/A	N/A	N/A	N/A	N/A
41.	573876	Link¹⁰³	2 ¹⁰⁴		5							
			A				Suprnova 2	https://etherscan.io/address/0xf442c4ab4d8cf106bcda6b1f7994485f3f4291a9	Transfer		1	
			B				Suprnova 2	https://etherscan.io/address/0x2a0776a97b13908406ea23ad1947dc57ef00f50b	Transfer		0.1	
42.	572599	Link¹⁰⁵	5 ¹⁰⁶		5	0						
					0xd8ddb0070aee305fc05be67ecab7e2979e940404							
			A				https://etherscan.io/address/0x900ded2ec098c430cad5347e6f3322932d7bb3a9	https://etherscan.io/address/0xaa9485eba854aba86bfdd64c8f4f08badd0f31c3	Transfer		75	
			B				https://etherscan.io/address/0x24766c0d149d056efb53f233b4f610a1bccffbf3	Cryptsy ¹⁰⁷	Transfer		1	
			C				Oracize	https://etherscan.io/address/0xe98078636c06b1a990fbcd57ddd4c76ada305606	0x480945df		0	Y
			D				Ethpool 2	https://etherscan.io/address/0x5d0b4ea1ce06693b853c3e7890a3d427755f67bb			5	
			E				https://etherscan.io/address/0x5d0b4ea1ce06693b853c3e7890a3d427755f67bb	EtherCame			1	Y

¹⁰¹<https://etherscan.io/block/624625>

¹⁰²<https://etherscan.io/block/604719>

¹⁰³<https://etherscan.io/block/573876>

¹⁰⁴<https://etherscan.io/txs?block=573876>

¹⁰⁵<https://etherscan.io/block/572599>

¹⁰⁶<https://etherscan.io/txs?block=572599>

¹⁰⁷<https://www.cryptsysettlement.com/> ; <https://cointelegraph.com/news/additional-compensation-available-for-cryptsy-victims-court-notice-says>

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Has h	Value	S-K
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							n.io/address/0x42e6723a0c884e922240e56d7b618bec96f35800	Price Feed ¹⁰⁸ https://etherscan.io/address/0x1194e966965418c7d73a42cceb254d875860356			(WEI)	
43.	533239	Link ¹⁰⁹	0		5		N/A	N/A	N/A	N/A	N/A	N/A
					0x738db714c08b8a32a29e0e68af00215079a9c5c							
44.	624625	Link ¹¹⁰	0		5		N/A	N/A	N/A	N/A	N/A	N/A
					0xd8ddb0070aee305fc05be67ecab7e2979e940404							
45.	508394	Link ¹¹¹	0		5		N/A	N/A	N/A	N/A	N/A	N/A
					0x738db714c08b8a32a29e0e68af00215079a9c5c							

Math

- Blocks = 45 x 5 =

Blocks = 225

- Uncles =

- 4 + 3 + 3 + 3 + 4 + 8 =

4 + 3 + 3 + 3 + 4 + 8 = 25

UNCLES = 25

¹⁰⁸<https://ether.camp/> ; https://www.reddit.com/r/ethereum/comments/6c23ua/is_hack_ethercamp_dead/ ; <https://hack.ether.camp/home>

¹⁰⁹<https://etherscan.io/block/533239>

¹¹⁰<https://etherscan.io/block/624625>; December 1, 2015

¹¹¹<https://etherscan.io/block/508394>; November 8, 2015

#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Hash	Value	S-K
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- Value (Under Transactions)
 - $4 + 4 + 4 + 20 + 5 + 5 + 2.5 + 5 + 23 + 1 + 52 + 5 + 35 + 18 + 5 + 5 + 1 + 4 + 2 + 10 + 5 + 4 + 2 + 1 + 5 + 100 + 1 + 75 + 1 + 5$

$$4 + 4 + 4 + 20 + 5 + 5 + 2.5 + 5 + 23 + 1 + 52 + 5 + 35 + 18 + 5 + 5 + 1 + 4 + 2 + 10 + 5 + 4 + 2 + 1 + 5 + 100 + 1 + 75 + 1 + 5 = \mathbf{409.5}$$

410.63

659.5 ETHER =

FAKE

46.	485ZBTb	Link (false0			5						
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#	Block	T-Stamp	Txs	Size	RW	U N C	From	To	Method	Hash	Value	S-K
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