

ReserveBlock

DEMOCRATIZING NFTS FOR EVERYONE



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CREATIVELY INDEPENDENT

TRUSTLESS & DECENTRALIZED

If the past few years have proved anything, it most certainly has resulted in a massive shift in the way we connect, create, collect, interact and trade. Highly different than ever before, with unprecedented velocity, our quest for trustless technologies and tools has far exceeded yesterday's innovations.

Enter blockchain technologies and applications that have propelled, what we know today to be Web3, as a way for us to embrace creativity & independence in a secure, safe and scalable ecosystem that allow for transparent innovation & facilitate decentralized transactions for the adopters who embrace them.

With various blockchain technologies on the rise, applications and marketplaces have effectively removed the traditional high-barriers of entry for creators & traders alike. Through non-fungible tokens (NFTs), creators and collectors have clearly been able to connect & interact with their audiences unlike ever before. An NFT, a unique digital identifier that cannot be copied, is recorded in a blockchain through transactions with smart contracts and cannot be changed or altered once created. In other words, NFTs are immutable and transparent digital certificates that represent an asset and allow us to view their authenticity and history on a blockchains public ledger. Simply, they are tokens that allow us to perfect the ownership rights of digital and physical property & allow us to make these unique items "portable". The creation and trading of art, collectibles, music, content, games, experiences, physical assets, & real estate, to name a few with many more to come, have eclipsed tens of billions in pure transactional sales volume to date.

This in turn has accelerated the "tokenization" movement of these various asset classes within a blockchain and has provided a trustless system whereby creators, collectors and traders may transact on a peer to peer basis or within like-minded communities, without the need for centralized or third-party involvement or control. Trustless? Most certainly... Decentralized? Well, Sort of... While the underlying technologies and applications has served as the foundation for this trustless movement, we continue to see some of the same old legacy issues when it comes to open market trading with each other... a need for a third party to connect us and a requirement to pay high transaction fees or costs for that connection.

For us to effectively create NFTs and interact with them or trade them, we need layer 1 applications, which are blockchain protocols that provide for those trustless systems & tools we seek. However, with increased innovation and utilization, potential weaknesses of scalability, utility and even consensus are exposed when innovators and users assume a "one-size fits all approach". Just because a blockchain can execute and store data for multiple uses, does not mean it is truly without vulnerabilities or scalability limitations as it grows. Therefore, blockchains or layer 1 solutions with a finite purpose tend to be stronger and scale greater over longer periods of time. So can we reduce the need for centralized parties or control and make a true transition from pseudo-decentralized to opt-in decentralization? Time will tell.

WELCOME TO THE BLOCK

ReserveBlock (RBX) is the first open-source decentralized NFT centric blockchain that is independently governed and democratizes NFTs for everyone! This next generation blockchain allows for the independent minting of NFTs and storage of the underlying asset with true royalty enforcement, all through a programmable smart contract with an extensive suite of on-chain evolving features and wallet functions that do not currently exist today.

These unique NFTs can be created through the platform's core native wallet and unleashes evolutionary features that finally embed true utility possibilities within each & every NFT. This powerful ecosystem provides any brand, community, creator or minter with greatly needed decentralized selling tools (DSTs) that unlock the ability to effectively "turn on" self-controlled marketplaces or stores and facilitates sharing, trading and transferring through any social or web-based channel.

Governed by a Masternode infrastructure, the RBX network is completely carbon neutral with a hybrid Proof of Assurance (PoA) consensus mechanism and without the need for centralized authority while validating transactions at near zero transaction fees for ALL minters & traders. Bottom line, no gas fees, selling concessions or any third-party charges whatsoever.

By adhering to Nakamoto ideals and principles, the RBX network is the next gen blockchain specifically developed to evolve NFTs and unlock utility beyond current use cases. While many existing blockchains have served several uses simultaneously, RBX allows for NFTs to properly scale without the constraints that are known today.

To that end, the RBX network was designed and architected with the key elements & philosophies of the Bitcoin Network in mind, without friction and operatively more efficient, for NFTs to evolve exponentially into the future.



FOR EVERYONE

The ReserveBlock network was developed to scale and handle the heavy demand for all things related to NFTs, as well as allow NFTs to live and evolve with unlimited use cases. For starters, the chain provides for and allows both the metadata and the actual digital / physical good references to be cryptographically stored in one single transaction. Constructed to truly decentralize issuance, governance, media, marketplaces and the tokenization all in one chain, the network dramatically resolves the friction that burden existing NFT platforms and marketplaces today. As a complete open-source decentralized network, any developer, creator or user can participate with no barriers or third-parties needed.

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- Masternodes & Data Nodes that anyone can participate (so long as they have the minimum amount of coin & hard drive space committed) and receive block rewards similar to the Bitcoin Network with a simple laptop (even a Raspberry Pi) all without any additional energy use.
 - Mint, collect, trade all through core native wallets with generative features and decentralized selling tools (DSTs) and deploy auctions independently on social & web-based platforms without any third party.
 - Create programmable smart contracts with or without knowledge of code and provide for evolving features and on chain-tools all through the native wallet.
 - Store and control all NFT data & media on-chain and / or host the actual NFT media on your own local device.

- Domain dominate wallet addresses and transactions with near zero fees.
- Cross-platform compatible, with any NFT file type.
- Complete open-source platform for any creator, trader, brand or marketplace to build and interact.
- Airdrops & rewards for developers and Masternode Founders through community and network participation.
- Built on top of C# with a robust program language for smart contract customization and NFT development.
- Utilize and integrate into any marketplace, metaverse or web-based platform.
- Upgradable like an operating system without forking period.

THE ONLY ASSURANCE YOU NEED

The RBX blockchain combines a hybrid consensus algorithm of Proof of Stake (PoS) and Proof of Capacity (PoC) to yield a Proof of Assurance (PoA) consensus all while utilizing a Masternode infrastructure for the validation of transactions. By integrating both PoS and PoC together the network requires that the block validation occurs within the nodes who have the proper amount of RBX coin staked to the network and rewards the client as well as the data nodes who devote hard drive / cloud space with additional transaction fees.

While the RBX blockchain is inherently similar to the Bitcoin philosophy, the main differences are the ability for frictionless storage of smart contract code, the assets for NFTs and highly scalable efficiencies. While the network of nodes doesn't mine in the traditional sense, as in the case of Proof of Work (PoW), the node infrastructure acts as validators and a stochastic ordering system all within a trustless plenum.

The following is the Algo formula fee structure calculated within the nodes (subject to change to insure near-zero fees is kept for transactions):

Transaction Fee - Near zero calculation
limitfreerelay 15,000 (Bytes) Limit of free transactions the client will relay to other nodes per minute

mintfee 0.000001 (RXBX) Minimum fee per KB for non-free transactions (creating)

minrelaytxfee 0.000001 (RXBX) Minimum fee per KB for non-free transactions (relaying)

Data Fee Algo -
Miner Voted Price Fix (Cost will be in RXBX) = Mvp

Miner Inflation Rate = Mir
Media Size in kb = Mkb

Replication Number = Rn

Data Miner Fee Algo : { [(Mvp x Mkb) * Rn] * Mir }
Mvp = 0.0000047 RXBX per KB * Mir = 1.04 (4%) (0.0000047 * 220) * 1] * 1.04 = 0.0009776 RXBX Fee or \$0.0029 USD per year

The following is the halving schedule of block rewards distributed by the network for validating transactions, storing data and verifying blocks to the chain:

Year 2022-2025

First Halve
Block Reward - 40 RXBX
Block 0 - 67,500,000 RXBX Mined - 17.76%
Block 4,703,400 - 189,636,000 RXBX Mined - 49.90%

Year 2025 - 2028

Second Halve
Block Reward - 20 RBX
Block 9,406,800 - 283,704,000 RXBX Mined - 74.66%

Year 2028 - 2031

Third Halve
Block Reward - 10 RXBX
Block 14,110,200 - 330,738,000 RXBX Mined 87.04 % mined

Year 2031 - 2034

Fourth Halve
Block Reward - 5 RXBX
Block 18,813,600 - 354,255,000 RBX Mined 93.23 % mined

Year 2034-2037

Fifth Halve
Block Reward - 2.5 RXBX
Block 23,517,000 - 366,013,500 RBX Mined 96.32 % mined

Year 2037 - 2041

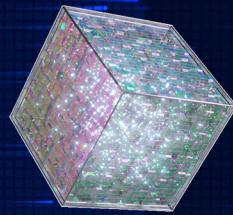
Sixth Halve
Block Reward - 1.25 RXBX
Block 28,220,400 - 371,892,750 RBX Mined 97.87 % mined

This schedule is an estimate based on certain calculations and a final will be hard coded to the network & published in the Whitepaper.

JOIN THE BLOCK

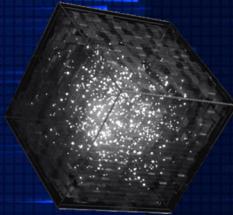
To become a Masternode and turn the client on, a user will need to acquire the RBX native currency. A minimum of 1,000 RBX coin is required to be staked to the network per node in order for the client to be active. A client is a node that has a RBX core wallet that is tied to a unique address belonging to them with "X" amount of native coin belonging to them and having control over that address. Again, the client simply runs the wallet program in the background of their local device (laptop, desktop, Raspberry-Pi etc. all agnostic to operating system) specific to the provided install and operating instructions and maintain only one node per static IP address. This is in-line with the Nakamoto principles of "one CPU one vote".

While there is no limit on the amount of nodes that may operate on the network so long as the client has the required native coin or data, there are two classes of Masternodes that are defined and identified with specific NFT badging hard coded to the network which embeds specific utility value in each & limited as follows —...



DIAMOND FOUNDER NODE

- Limited to 450 Diamond holders.
- Must have 5 or more nodes.
- NFT Badge identifier hard-coded to the network.
- Contains a super vote governance of 1.5 votes per node up to 10 nodes, with the remaining nodes held over that each containing 1 vote [If a holder owns 20 nodes, they would have 15 super votes per the first 10 nodes and then have another 10 votes per the remaining 10 nodes held for a total of 25 votes].
- Block rewards per the halving schedule.
- Airdrops and limited NFT rewards.
- Foundation one-year Anniversary limited edition NFT
- NFT badge is immediate tradable, however if sold, all benefits transfer to the new client when the new client turns on their respective Masternode. The original founder will still continue to act as a Masternode so long as they have the required amount of RBX staked to the network.



CARBON FOUNDER NODE

- Limited to 800 Carbon Holders.
- Must maintain 1-4 Nodes.
- NFT Badge identifier hard-coded to the network.
- Maintains governance of one vote per node.
- Block rewards per the halving schedule.
- Airdrops and limited NFT rewards.
- NFT badge is immediate tradable, however if sold, all benefits transfer to the new client when the new client turns on their respective Masternode. The original founder will still continue to act as a Masternode so long as they have the required amount of RBX staked to the network.

MINIMUM MASTERNODE HARDWARE REQUIREMENTS:

CPU: Pentium G Series or recommend i3 or Ryzen3 and Up.
Will work with lower processors like a Raspberry-Pi
Ram: Recommend 4GB but can run with 2GB
HDD: For Masternode min 50GB with room for growth.
For DataNode, having at least 500GB of free space is recommended and with room for growth.
GPU: Not Needed
Networking: Recommend a network speed of 25 mbps down if a client is a Masternode and if client is a Datanode recommend 25 mbps down and 25 mbps up.

SMARTER WITHOUT LIMITS

The code in a RBX smart contract is written using a proprietary program language called **Trillium**. Trillium is coded with the RBX Self Executing NFT Architecture Program (SEN) and is written using C#, which enables developers to build many types of modern, robust, and secure applications. The language will be immediately familiar to programmers of C, C++, Java and JavaScript. This program is what is ran on the RBX nodes and taken from the smart contract when called and pulled into the node or machine calling it and broken down into operations that the “caller” can then use to execute commands. This process is specifically designed to allow the “caller” to do as little work as possible. The user will also gain access to the smart contract data like Block, owner, cost etc. In essence rather than putting the entire network under strain to execute the code, the caller can execute things as needed doing the minimum work required to achieve the results needed.

From a creators perspective, the writing of the smart contract occurs within their respective RBX wallets and can generate all this functionality by writing the smart contract, with or without knowledge of code, and then deploying it to the blockchain. When the smart contract is deployed, it is then executed by the **Reserve Virtual Cluster**.

Currently with other blockchains, a user mints a token that represents the actual smart contract. With the RBX platform, the NFT IS the actual smart contract itself which allows NFTs to scale way beyond current use cases today and provides for an extensive amount of utility, limitless use cases and on-chain tools with evolving features. This now provides for the NFT to truly be dynamic and interactive rather than remain in static state post creation.

YOU OWN IT, YOU CONTROL IT

Currently, NFTs are being utilized in a very static state. This means that current blockchains where NFTs are created are not equipped to handle storage, utility and scalability that truly help unlock the value of an NFT. Most in fact are grossly limited in the actual smart contract execution and enforcement leading them to be managed in a centralized manner. With this early adoption, the current state of NFTs were sufficient enough for digital collectors and traders, however it has become evident with increased use-cases and market demand that a decentralized solution is needed in order to create real efficiencies and scalability that extend far beyond what is capable today.

With the launch of the RBX network SEN program being NFT Centric, NFTs will now provide for a vast array of tools and features that have never existed before. Clear on-chain features that allow users to facilitate advancement of current and additional use cases will benefit greatly from this increased utility. These NFTs will have standardized features, that as a base case, are far more advanced than their marketplace counterparts. NFT parameters will reside within the smart contract which can be called anytime the NFT is needed and its functions. In addition to many on-chain features and tools, the network will support the following standard features for all NFTs on the RBX network as follows:

- Royalty Enforcement
- Multi Account Ownership on a single NFT (Crowd Funding, Fractionalization, Joint Ownership).
- NFT Locking and Privatization (users can restrict the movement of an NFT & select private data only).
- Media for NFTs stored on-chain will no longer require web based IPFS addresses or centralized storage. Users can also host their own media for their NFTs.
- Evolving NFTs or State-Changing Event driven NFTs.
- Programmable language that allow for limitless NFT growth & development.
- The ability for NFT holders to become their own NFT DEXs.

With an NFT Centric Blockchain, RBX applications are considered to be limitless. Current use cases of collectibles, sports, art, gaming, music, content, ticketing, physical assets, real estate and metaverses will all immediately benefit with unique evolving features and on-chain tools. However, the network will also help mature potential use-cases in the areas of name service & domains, community memberships, crowdfunding and fractionalization across multiple verticals. RBX is agnostic to all known and unknown use-cases as NFTs with a programmable language can be created with a set standard or events that allow for them to adapt with given parameters and evolve over time.

ITS IN THERE!

BASIC WALLET FUNCTIONS

Below are the inherent RBX wallet functions. These functions are what are needed to achieve most common transactions. Additional features can be added or unlocked as the network grows over time.

1. Ability to generate addresses. Addresses are the identifiers in which a user will send a transaction to.
2. Ability to create transactions (TX):
 - a. RXBX transaction – is the type of TX that is sending the RXBX internal cryptocurrency from one address to another.
 - b. Ability to mint, trade and sell NFT through a TX
3. Ability to check users balance of RXBX.
4. Ability to view and download NFTs.
5. Ability to view a history of all transactions.
6. Ability to view template smart contracts and then use them or edit them to meet a creators needs.
7. Ability to code smart contracts.
8. Capabilities to create human readable addresses.
9. Blockchain querying capability.
10. Automated design generator.

IT'S IN THERE!

NFT FUNCTIONS

All the NFTs below will be RBX base NFTs that will have templates and require no coding experience, however, a user will be able to modify the templates to create custom and new solutions that meet the needs of the creator. Additionally, users will be able to engage with developers within the community to write a smart contract should it require a more complex solution.

1. **Base NFT** – This NFT is a basic NFT that will allow the user to create an NFT and upload a digital asset (public or private).
2. **Evolving NFT** – This NFT will have the ability to have a finite amount of parameters to be programmed in that will allow the NFT to change, evolve, from its original state based on the parameters programmed in. The NFT can also Devolve if a parameters are met and then revert back to an original state. This function will use basic arithmetic operators and will allow the user to code in the future states of an NFT rather than having to mint an NFT for each state in the future.
3. **Royalty Tracked NFT** – This type of NFT can be created with the RBX wallet that will allow whatever NFT created to have the ability to be royalty tracked and receive a defined percentage of all sales that the NFT trades for in the future indefinitely unless specified otherwise. With this feature the creator will specify the percent of the royalty and the date the royalty enforcement will end, or if it is in perpetuity.
4. **Tokenization of Physical or Digital Goods** – The wallet will allow users to create an NFT that can reference or link to a real world or digital world item and generate a tethered QR code. Examples would be to link your autographed sports card or create an in-game epic armor set for your video game.
5. **Music NFTs** - Artist can now issue digital albums with publishing stored directly on chain. With RBX royalty enforcement artists can also receive or share royalties every time music is purchased / transferred without the need for centralized authorities.
6. **Multi-Ownership NFTs** – These NFTs will allow a single minter to create the NFT and show ownership with themselves as well as others. This would be used for crowdfunding as an example.
7. **Self-Destructing NFTs (SDN)** – These types of NFTs will in essence “Delete” themselves no longer allowing them to be used. Examples of these would be for things like redeemable items or items that expire after a certain period. This NFT will have data that would inform the user that it is no longer valid and it would notify the nodes to remove the associated media with it.
8. **Consumable NFTs** – These NFTs are like SDNs, but they do not have a expire date, but rather once they are consumed (Traded) they are considered used and will be flagged as such and considered no longer valid. The person to receive the consumed NFT will be the last person to have a copy of it. Examples of this would be for something like a ticketed event or experience , redemption card, etc. This could also be bundled to include a collectible or to unlock content etc.
9. **Fractionalized NFT** – This is the type of NFT where a user can generate one NFT and can then fractionalize it. Fractionalization works when a user decides to give other holders percentages of the NFT.
10. **Pairing NFTs** – This is a type of NFT that can be tethered or referenced to another NFT.
11. **Wrapped NFT** – This gives users the ability to literally bring another platform created NFT over and wrap it with a RBX NFT and add dynamic evolving features.

All NFTs above are template options that will be made available to the wallets. Users will be able to mint, trade, and sell their NFTs all through the RBX wallet.

ITS IN THERE!

ON-CHAIN DECENTRALIZED SALES TOOLS (DSTS)

With DSTs, users will be able to take their NFTs and list them through their respective wallets on any social media platform or web platform. This eliminates the need for centralized trading platforms. The wallet will allow them to list an NFT for sale at a buyout price and/or bidding style pricing. Users can then sell their NFTs completely devoid of any third parties.

DSTs can be defined below:

1. List an NFT for sale
2. Sell NFT for fixed price or allow bidding
3. Perform the exchange of an NFT completely on chain and without need for platform.
4. Royalty enforcement included in all sales that require it.
5. Ability to donate or gift an NFT.
6. Reports of all sales and transactions to date.
7. Way to connect to wallet for NFT item search and sales.
8. Private chat feature between buyers & sellers.

YOU DO THE MATH

BLOCKCHAIN COMPARISON CHART

	RESERVE BLOCK	ETHEREUM	SOLANA	AVALANCHE	TEZOS
CONSENSUS MECHANISM	Proof of Assurance (Hybrid Liquid Proof of Stake & Proof of Capacity)	Proof of Work Eth 2 (PoS)	Proof of History	Proof of Stake	Liquid Proof of Stake
PROGRAMMING LANGUAGE	C#, Trillium (SEN Self-Executing NFT Architecture Program)	Solidity, Viper and others	Rust,C,C++	Solidity	Michelson
INTEROPERABILITY	Yes	Yes	Yes	Yes	Yes
SCALABILITY	High	low	High	High	High
TRANSACTIONS PER SECOND	500 plus [base estimate]	15-45	65,000	4,500 per subnet	40-50
TRANSACTION THROUGHPUT	2,500 and up [base estimate]	17	50,000 and up	400	-----
TRANSACTION LATENCY	20 s (processing block times every 20 sec)	15 seconds to multiple days	400 ms	1-2 s	15 min
TRANSACTION FEE (AVG)	.00001 [one-time data fee of .0000047 RXBX per KB if storing physical media is needed]	\$20-\$70 (depending on network congestion)	.00025	.001	~.006-.01
TRANSACTION FINALITY	25 s	5 min	13 s	3 s	30 s
TRANSACTION GOVERNANCE	Masternode Assurance	Miners	Coin Holder Staking	Coin Holder Staking	Coin Holder Staking
GOVERNANCE SUPERVISION	Validators	Full Node Operators	Validators	Validators	Delegators and Bakers
NUMBER OF VALIDATORS	N/A	222,052	1,355	1,195	368 (Bakers) 99,665 (Delegators)
(APY) PER YEAR	N/A	4%	6.56%	10.06% (Average)	6%
CIRCULATION	67,500,000	118,935,388.69	309,349,417.22	243,243,857.92	872,418,702.80
MAX SUPPLY	380,000,000	Infinite	504,095,110	720,000,000	763,306,930
BLOCKCHAIN SIZE	N/A	992 GB	200+ GB	150 GB	110 GB

DEVELOPED BY ENTHUSIASTS FOR EVERYONE

The RBX autonomous & decentralized network has been developed and created through the culmination of a collective of Founding Sponsors, each with vast expertise in media, entertainment, technology, sports, hospitality, banking and finance. Led by The Reserve Label, Texoware, and The Young Astronauts technology group (thereservelabel.com), as the initial founding & development sponsors, the foundation has been completely self-funded and devoid of any centralized control whatsoever ensuring the most ideal decentralized ecosystem. The founding sponsors have produced and created, through media and technology solutions, a number of high-profile projects & platforms across multiple mediums. Prior foundation sponsor projects include, but are not limited to, large scale film, television & digital studio launches, technology solutions and brand campaigns for and in collaboration with **Legendary Pictures, Bandito Brothers, Act of Valor, Hot Wheels, The Concours Club, CBS SEAL Team, The United States Navy, Ford, Hummer, BMW, Nike, Apple, Beats, Live Nation, Pepsi, Kodak, Major League Baseball, NFL, NBA, Amazon, Viacom, Universal, Sony, Intel and Google**. Additional founding sponsors have held previous positions at Amazon and Citigroup, as well as various sports and media agencies.

YOUR BLOCK YOUR DATA YOUR NFT

CONNECT, INTERACT OR SAY HELLO

HELLO@RESERVEBLOCK.IO

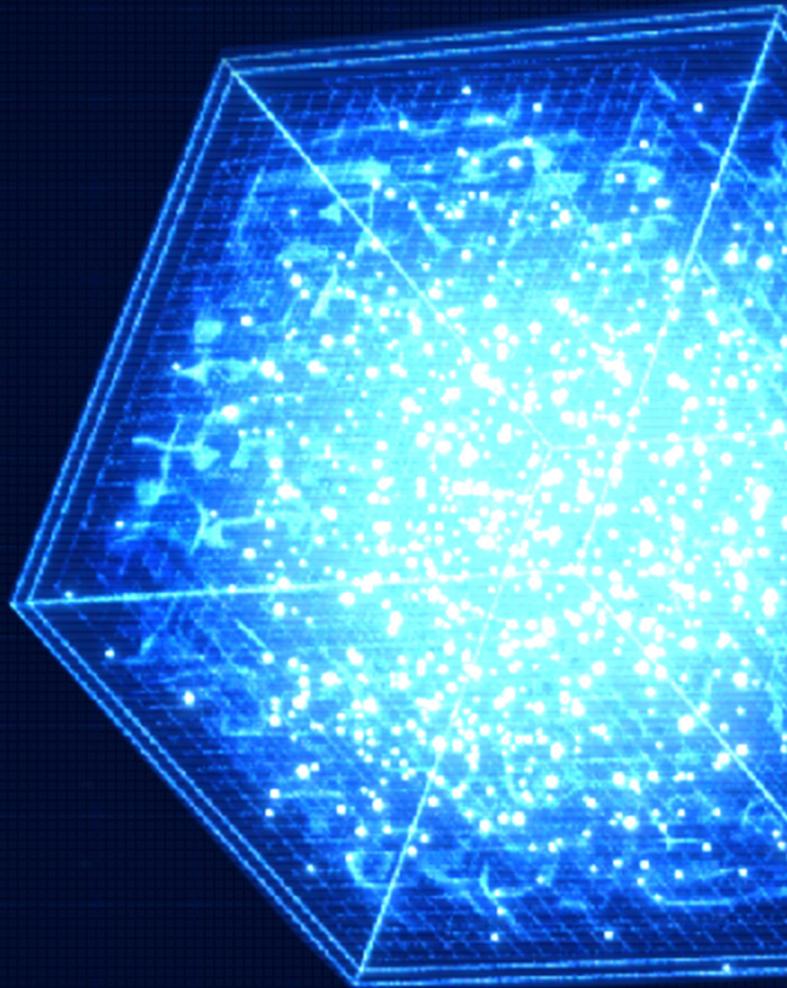
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