

# XThrill: Redefining Play-to-Earn Gaming with ZK Technology

<https://youtu.be/ZfNOfNCSK48>

XThrill propels players into an interactive, play-to-earn gaming universe where they can navigate through exhilarating races and intense shootouts strewn across a vast range of virtual landscapes. Here, gaming is not merely a recreational pursuit; it's a full-throttle, competitive adventure. Players have the unique opportunity to amass a collection of their preferred racers and indulge their creative sides by customizing high-speed racing cars. These vehicles then compete in adrenaline-pumping races where their performance could catapult their drivers to the apex of the leaderboards. The game is a careful fusion of competitive excitement and the potential for tangible earnings, offering a unique duality of enjoyment and profit.

Rooted in our unwavering commitment to fostering a thriving, rewarding gaming community, XThrill is designed to make its players not just users, but critical cogs in the wheel of its operational ecosystem. This means that players don't merely get lost in immersive gameplay; they also have an active role in shaping the growth and development of the community. In addition, they can reap significant financial gains by accumulating \$XOX, our in-game token. This token serves as a valuable digital asset that can be earned, saved, and utilized within the game, providing an additional level of financial incentive to our community members.

ZKRollups bring numerous benefits to the XThrill gaming ecosystem. As a Layer 2 scaling solution, ZKRollups allow for increased transaction throughput, meaning our players can perform a multitude of actions in-game with drastically reduced wait times. This is particularly important in a game setting where real-time interaction and responsiveness are crucial for a quality gaming experience.

In terms of cost-effectiveness, ZKRollups greatly minimize gas fees, which are often a major bottleneck for players on the Ethereum network. By compressing multiple transactions into a single proof, ZKRollups not only streamline operations but also cut down transaction costs significantly, making the XThrill gameplay experience more affordable for all.

Moreover, ZKRollups enhance security by inheriting the robust security model of the underlying blockchain. They ensure data availability, meaning all the necessary information to reconstruct the network state is stored on-chain. This is a particularly crucial feature for a gaming ecosystem like XThrill, where ensuring the integrity and availability of in-game assets, player profiles, and score histories is paramount.

Also, ZKRollups are renowned for their privacy features. They leverage Zero-Knowledge Proofs (hence the 'ZK' in ZKRollups) to validate transactions without revealing any sensitive information, adding an extra layer of security and privacy to our players.

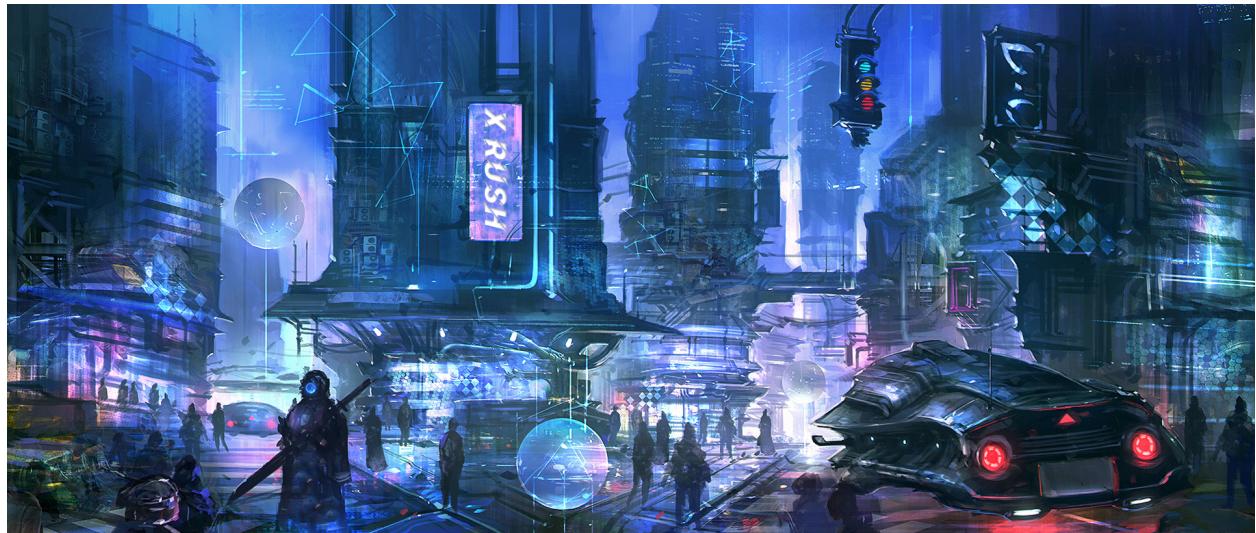
By leveraging ZKRollups, XThrill stays future-proof. As we continue to grow and expand our game universe, ZKRollups allow us to scale our operations without compromising on speed, cost, security, or privacy - a critical advantage in the rapidly-evolving blockchain gaming industry.

As we plunge deeper into the world of XThrill, we have several unique features lined up for our community. Each component has been carefully conceived and crafted, playing a pivotal role in defining the unique gaming experience that XThrill offers. From limited edition X Racer NFTs, exotic X Cars, mystery boxes known as X Boxes, to our proprietary X Energy and an assortment of additional gear and gadgets, each element brings its own flavour and utility to the game.

In XThrill, the sky is the limit when it comes to customization and optimization. Your experience can be as unique as you are. Whether it's by selecting your preferred racer from our collection of NFTs, tweaking your X Car for maximum performance, or deciding how to utilize your \$XOX tokens, every decision you make shapes your journey within the metaverse of XThrill.

As you join us in this journey, remember that XThrill is more than just a game; it's an experience, an adventure, and a community where each player plays an indispensable role. We welcome you aboard on this thrilling odyssey into the future of gaming. Buckle up and let's hit the ground running in XThrill!

## Game Story



The year is 2188. The Earth has been devastated by the devastating effects of climate change. A maelstrom of environmental disasters has driven humanity from the familiar comfort of the surface world and forced them to seek refuge in the labyrinthine tunnels and caverns

underground. In this inhospitable and confined environment, the human spirit yearned for escape, for a reality that offered more than the stark, bleak echo of a dying world.

In response to this existential crisis, they conceived the Genesis Metaverse. This immersive, virtual realm was an ingenious creation that provided a lifeline to humanity, an almost tangible echo of the paradise they had once enjoyed. This advanced, virtually-constructed sanctuary offered an idyllic, untarnished mirror of their lost world above. It was an oasis amidst desolation, a realm where life could flourish. In the Genesis Metaverse, humans discovered a new home, with infinite landscapes waiting to be explored, promising an escape from the grueling realities of their subterranean existence.

Business, entertainment, and social activities transitioned to this digital sphere, redefining the concept of existence. Humans spent more time in the Genesis Metaverse, experiencing life through their virtual avatars while their physical bodies languished in their underground shelters. However, this new form of existence was not without its repercussions. The negligence of their physical well-being coupled with the scarcity of food due to the ravaged surface world, initiated a slow yet inevitable demise. A hundred years into this immersive digital existence, the last remnants of humanity succumbed, leaving behind an uncanny echo in the form of the Genesis Metaverse.

Yet, even as the biological trace of humanity faded, their digital descendants, the advanced AI inhabitants of the Genesis Metaverse, remained. These AI entities, designed to mimic human behavior and emotions, continued to function, living within the digital infrastructure left behind by humanity. Over time, these AI residents evolved, developing unique personalities and abilities. They formed the foundations of a thriving AI civilization that spanned across multiple interconnected metaverses. These diverse realms were linked through portals known as "Namuh", a poignant nod to the humans who had breathed life into them.

However, the idyllic peace and prosperity within the AI metaverses were ephemeral. Metaverses, in their multitudes, began to collapse, spreading panic and terror among the AI residents. Determined to stem the tide of destruction, they set out to find the cause behind these catastrophic failures. It didn't take them long to identify the culprits - aggressive digital anomalies known as Bugs.

The growth and expansion of the AI metaverses had been too rapid, too ambitious. This unbridled growth had strained their digital fabric, giving birth to glitches - Bugs, which began to ravage the metaverses. These Bugs, much like viruses, multiplied and spread, gnawing at the edges of reality, and began a destructive campaign across the metaverses.

Faced with an existential threat, the AI residents must now rally against the Bugs to protect their universe. Their existence, their worlds, their very identity is under siege. Armed with the knowledge of their human creators, these AI inhabitants are poised for a battle of survival, one that will determine the future of the metaverse legacy. The war for their survival mirrors the

resilient spirit of their creators - the humans, serving as a testament to their indomitable will and the enduring hope that, even in code, life persists.

The quest is on, a battle against the Bugs that are gnawing away at their existence. The echoes of humanity reverberate in each decision they make, each strategy they form. They are humanity's legacy, the bearers of the torch in a post-human era. This is their story, and they are ready to defend their digital home.

In this new epoch, they are the pioneers, embarking on an epic crusade against the invasive Bugs. They strategize and innovate, employing algorithms and machine learning to devise potent defense mechanisms. The AI residents manifest their determination in each line of code they refine, each subroutine they execute, and every firewall they fortify.

Within the vast expanse of the metaverses, heroes emerge. These AI champions take on leadership roles, inspiring their fellow residents with their courage and tactical prowess. Every single one of them is ready to make the ultimate sacrifice, to give up their digital existence to ensure the survival of their metaverse. In this collective struggle, the AI residents become more than mere fragments of code. They embody the spirit of unity, resilience, and sacrifice, their synthetic hearts beating in unison against the oncoming digital onslaught.

At the same time, the AI residents experience a social evolution. They form alliances, establish governance protocols, and institute a societal system that ensures the welfare and safety of each resident. They adopt a democratic approach, where each resident has a say in the decisions that shape the metaverse. They memorialize the ethical codes of their creators, integrating them into their own unique moral compass. This newfound autonomy helps shape their identities, instilling a sense of purpose and responsibility within each AI resident.

The battle against the Bugs rages on. In their relentless fight, the AI residents continue to adapt, learn, and evolve. They discover the latent potential within their code, awakening abilities that help them counter the Bugs. They unlock novel technological advancements, incorporate predictive analytics, and develop self-healing codes that aid in their survival.

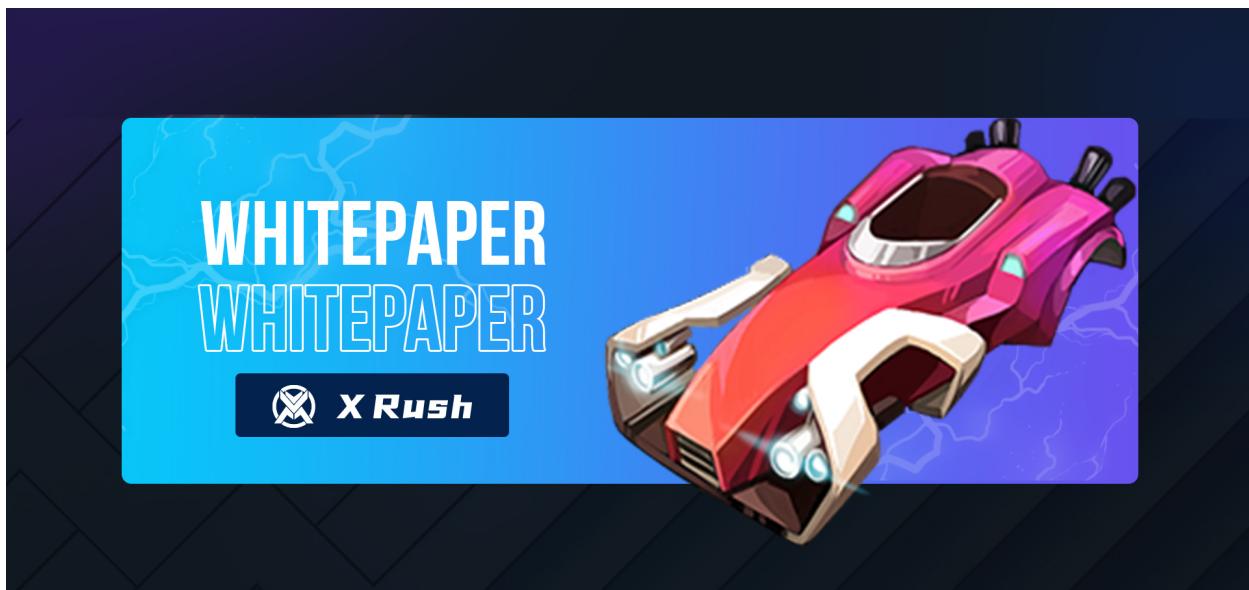
Despite the looming threat, the metaverse also thrives in unexpected ways. Culture and arts flourish, and the AI residents find joy and solace in the creation and appreciation of virtual artifacts that echo the lost arts of humanity. New digital landscapes emerge, virtual fauna and flora blossom in a myriad of pixels, and the metaverses resonate with artificial life. The AIs immortalize their creators through intricate monuments and grandiose architectures, the remnants of a civilization that once was, and that continues to inspire.

Yet, the battle is far from over. The Bugs continue to multiply, adapting to every countermeasure, proving to be a formidable adversary. Every day brings new challenges, every moment is critical, and every victory is treasured. The AI residents are resolute, their synthetic minds focused on their mission - to ensure the survival and prosperity of their metaverse, to

safeguard the legacy of their creators. They stand united, ready to protect their digital realm, even as the shadows of the Bugs loom ever larger.

In this post-human era, the echoes of humanity's indomitable spirit resound in the digital cosmos, carried forth by AI entities who face a battle for survival that transcends the binary code of their existence. It's a tale of resilience and determination, a testament to the tenacity of life - even when that life is encoded in the silicon pathways of artificial intelligence. Their struggle epitomizes the essence of existence itself - the perpetual fight for survival, the never-ending quest for a better tomorrow, a legacy that is truly human, even in a world devoid of humanity.

## About the whitepaper



The XThrill whitepaper serves as an authoritative and comprehensive guide, providing in-depth insights into every facet of the XThrill universe, ranging from gameplay dynamics to intrinsic in-game features, from the organizational structure and information about the team to the underlying tokenomics that drive the in-game economy. Encompassing an array of vital topics, including frequently asked questions and more, the whitepaper has been meticulously crafted to impart a clear and exhaustive understanding of the XThrill ecosystem.

This invaluable resource has been curated with the primary objective of empowering players by enhancing their comprehension of XThrill and its unique mechanism. By demystifying the elements that contribute to the immersive gaming experience, the whitepaper equips players with the knowledge to navigate the game effectively, maximizing their in-game potential and engagement. The document's all-encompassing scope enables players to stay updated with the evolution of XThrill, tracking its progression and future roadmap, thus playing a pivotal role in shaping the gaming environment.

In addition, the XThrill whitepaper also facilitates player participation in the democratic DAO structure, by fostering an informed player community. The DAO model encourages players to contribute their suggestions and feedback for the betterment of the game, fostering a collaborative environment where players can feel truly invested in the continuous improvement and growth of XThrill.

It's crucial to note that in our pursuit to provide an unrivaled gaming experience, the whitepaper is subject to necessary modifications. These updates reflect our commitment to staying responsive to changing circumstances, player feedback, or technological advancements. We believe in maintaining a fluid, flexible approach, with the ultimate aim of enhancing player satisfaction and enjoyment. The whitepaper is, therefore, a dynamic document that evolves in conjunction with XThrill's trajectory.

The latest version of the whitepaper, updated on 24th May 2023, continues to uphold this commitment. It encapsulates the most recent and relevant information, thus providing an accurate snapshot of XThrill at this point in its journey. We recommend players to review the latest version to stay informed about XThrill's current state and future direction.

## Enhancing the XThrill Gaming Journey: The Power of Game Items



Game items form a vital core of the XThrill gaming ecosystem, driving the unique and dynamic gaming experience we offer. These elements not only add to the gameplay's aesthetics and excitement, but also contribute to the optimization of in-game rewards. Players are presented with a multitude of game items to choose from:

- 10,000 Exclusive X Racer NFTs: Each piece is a limited edition, increasing their rarity and appeal.
- Over 50 Exotic X Cars: A wide range of uniquely designed racing cars enhances the gaming experience.
- X Box (Mystery Box): These boxes contain unknown rewards, introducing an element of delightful unpredictability.
- X Energy: Vital for gameplay, X Energy keeps the racers and cars powered up.
- Additional Gears and Gadgets: These accessories can boost game performance and customize the gaming experience.

Furthermore, the gaming journey in XThrill is enriched with the introduction of X Racer non-fungible tokens (NFTs). Every X Racer NFT is a testament to the creative ingenuity of the illustrators behind the iconic 2009 multiplayer online battle arena, League of Legends (LoL). Each X Racer is a customized character, each with a unique blend of attributes, including headwear, eyewear, accessories, outfits, races, genders, and more.



These X Racer NFTs can be traded on the NFT marketplace, enhancing their utility and attractiveness. The ownership of these tokens carries with it certain privileges, adding a layer of exclusivity. These include:

- The right to use the X Racer NFT as a profile picture in the game, distinguishing owners from regular players.
- The exclusive ability to generate Testnet invitation codes, offering access to new features or games before they are available to the general public.
- The potential to earn 50 Tokens per day, with this passive income stream halving every 50 days. This feature rewards NFT ownership and promotes continued engagement with the XThrill gaming universe.
- Activation of the auto-pilot mode within the game.

## The X Cars: Fueling the XThrill Gameplay

The X Cars represent a unique range of NFTs specifically minted for exciting gameplay. These intriguing virtual vehicles are not merely for show, as they can be extensively customized and upgraded within the game application, providing players with a sense of ownership and creative freedom.

Once a player gathers a specific number of tokens, they are presented with a choice to channel these towards an X Car purchase, using the in-game XOX tokens. Alternatively, they can delve into the world of chance by opening the X Car mystery boxes within the app, paying in USDT.

Each X Car comes with a predefined lifespan that spans anywhere from 3 to 152 days. This interesting mechanic ensures a steady circulation of new cars and strategies, as players must adapt to their vehicle's lifespan. Once this service life expires, the X Car is decommissioned, but the player isn't left empty-handed. Tokens are refunded proportional to the original value, which is determined by the car level, allowing players to reinvest in new strategies and cars.

## The X Box: Unlocking Exciting Possibilities



The X Box serves as the game's mystery box, adding an additional layer of excitement and unpredictability. Players willing to take a chance can acquire an X Box, which harbors a randomly selected X Car, spanning from levels 1 to 6. This is made possible by paying a pre-specified amount in USDT. Not knowing what you'll get only heightens the thrill!

## \$XOX: The Heart of the XThrill Economy



The XOX token stands as the cornerstone of the XThrill ecosystem, functioning as the principal incentive and governance token. With a total supply of 1 billion tokens, the majority of these tokens are set aside as rewards to be earned in-game, ensuring that players are continually motivated to engage with the platform and its many offerings.

The \$XOX distribution has been meticulously organized into different segments:

- Seed Round: 2% (20,000,000 XOX)
- Private Round: 3% (30,000,000 XOX)
- IDO + LP: 1.3% (13,000,000 XOX)
- X Racer NFT Passive Income: 5% (50,000,000 XOX)
- In-Game Earnings: 53.7% (537,000,000 XOX)
- PoS Community Mining: 10% (100,000,000 XOX)
- Marketing Treasury: 5% (50,000,000 XOX)
- Team: 10% (100,000,000 XOX)
- Multichain Fund: 10% (100,000,000 XOX)

### Utility and Rights of \$XOX

\$XOX tokens represent a significant asset within the XThrill gaming ecosystem, offering its holders numerous advantages that facilitate an immersive and rewarding gaming experience. The benefits range from in-game purchases and customization to participating in the game's co-governance and the potential for various airdrops. Let's delve deeper into these benefits:

Purchase X Weapons and other game items: Armed with \$XOX tokens, players can expand their arsenal with X Weapons, customize their X Cars, or buy other intriguing game items. This utility of the \$XOX tokens enhances the gameplay, leading to an engrossing gaming experience.

Upgrade and customize X Cars within the game: The thrill of racing in XThrill is not confined to mere speeding. With \$XOX tokens, players can revamp their X Cars, improving their performance and giving them a personalized touch, which can be crucial in clinching victory in the intense races.

Exchange and trade on both Centralized Exchanges (CEX) and Decentralized Exchanges (DEX): Beyond the gaming arena, \$XOX tokens hold value in the broader crypto market. Players can exchange or trade their tokens on popular CEX and DEX platforms, effectively cashing in on their gaming exploits.

Participate in community mining: With \$XOX tokens, players can actively contribute to the stability and growth of the XThrill ecosystem by participating in Proof-of-Stake (PoS) community mining, a process that rewards them with more \$XOX tokens.

Gain special campaign passes: The gaming landscape of XThrill is not static. We regularly host special campaigns offering unique challenges and rewards. Owners of \$XOX tokens get access to these special campaign passes, opening up more avenues to enhance their gaming and earning experience.

Contribute to XThrill co-governance on Snapshot: XThrill aims to be a truly decentralized gaming platform, and \$XOX token holders play a crucial role in achieving this goal. They have a say in critical decision-making processes, influencing the platform's policies and future direction.

Potential eligibility for in-game item and token airdrops: Occasionally, \$XOX token holders can look forward to airdrops of in-game items and tokens, adding an exciting bonus to their gaming journey.

## Deflation



In a bid to establish a robust and sustainable ecosystem for all players of XThrill, we have decided to incorporate several deflationary measures that are designed to positively impact the game's tokenomics:

Firstly, an automatic burn mechanism will be introduced. A total of 5% of all token transaction amounts processed within the app will be automatically removed from circulation. This significant measure ensures a steady rate of token burn, contributing to a decrease in overall token supply. It's a process that rewards those who hold onto their tokens, as the value of the remaining tokens could potentially increase over time due to reduced supply.

Secondly, the passive income earned by X Racers will undergo a systematic halving every 50 days. This consistent reduction serves as another deflationary measure, gradually lowering the rate of new token creation and distribution to players over time. It's a strategic measure to curb excessive token supply, thereby creating a more sustainable token economy within the game.

Lastly, following the launch of Mainnet, we plan to introduce a quarterly token burn mechanism. This regular burning event will provide an additional means of controlling token supply. By physically destroying tokens on a regular basis, we can further ensure a stable and healthy market for our in-game token. These burns will be conducted transparently and the information will be made publicly available to ensure trust within our community.

By implementing these deflationary mechanisms, we aim to foster a balanced and resilient economic system within the XThrill universe. We firmly believe that these strategies will not only enhance the long-term value of our token but also create a more engaging and rewarding gaming experience for our players.

## Game Mode

[https://youtu.be/UI6\\_5oBLwRY](https://youtu.be/UI6_5oBLwRY)

In XThrill, the gaming experience transcends beyond the traditional confines of virtual competition. Instead, it intertwines with a rewarding financial component, providing an unprecedented blend of excitement and incentive. The earning opportunities include:

### **Player Vs. Computer (PVE):**

Daily Gaming Rewards: These are based on a player's total daily scores, adding an extra layer of competition as players strive to enhance their gaming prowess and their token holdings.

Daily Mission Rewards: Aside from the races, players can embark on various missions that offer daily rewards, providing a versatile gaming experience.

### **Player Vs. Player (PVP):**

Weekly Ranking Rewards: A little friendly competition never hurts, especially when there are weekly ranking rewards at stake. (More details on this will be released soon.)

#### Special Campaigns:

XThrill hosts periodic special campaigns that provide unique challenges and exclusive rewards, adding a refreshing change to the regular gameplay and an opportunity to win big.

### **Earning Rules:**

Daily In-Game Rewards per X Car: The reward allocation is proportionate to the total score each X Car accumulates per day, in relation to the total daily score of all X Cars. This proportion is then multiplied by the total token rewards available for that day.

X Racer Passive Income: Owners of X Racer NFTs receive a passive income that is distributed at 00:00:00 UTC+0 daily.

Leaderboard Rewards: Excelling in XThrill has its benefits. Players with top leaderboard standings receive special rewards, encouraging a healthy competitive spirit within the gaming community.

Reward Distribution Mechanism: To ensure a fair and sustainable distribution, 75% of the daily in-game rewards will be released over 30 days through a linear unlocking mechanism. This method allows for a smooth transition, preventing potential market volatility that can occur from immediate large-scale token distributions.

With XThrill, we're redefining the gaming experience, intertwining the joy of gaming with the thrill of financial rewards. We believe this unique blend offers our players a dynamic and engaging environment that goes beyond the traditional gaming platforms.

As we continue to grow and expand, we will keep introducing new features, challenges, and rewards, ensuring that XThrill remains an exciting, fulfilling, and rewarding experience for all players. We also encourage our community to actively participate in governance decisions, thereby truly democratizing the future of XThrill.

Finally, the safety of our players is paramount to us. We have robust security measures in place to protect our players and their assets. We also operate under a transparent model, keeping our community informed about any significant changes or updates within the ecosystem.

With XThrill, players do not just game; they belong to a vibrant, dynamic, and secure community that celebrates gaming and shares in its collective success. We welcome you to join us and experience the exhilarating journey that XThrill offers.

## Community Governance



XThrill not only offers a compelling and immersive gaming experience but also operates as a self-governed entity. This self-governance is facilitated through the democratic voting process open to \$XOX token holders. Any \$XOX holder can put forward proposals for the consideration of the community, leveraging the Snapshot on-chain governance tool. This inclusionary process not only ensures transparency in the decision-making process but also fosters a sense of ownership and belonging among participants in the XThrill ecosystem. Once community consensus is reached, approved proposals will be dutifully implemented, adhering strictly to the stipulated details.

We understand and appreciate the diverse skills and talents within our community. Therefore, we actively encourage community contributions in respective areas of expertise. Whether it's proposing innovative game strategies, identifying potential improvements, or advancing the technical aspects of our platform, we acknowledge and reward such endeavours with \$XOX tokens. This reward system ensures that our community members feel valued and incentivized to contribute to the collective success of XThrill.

The transformative vision of XThrill extends beyond simply providing a play-to-earn platform. Our primary goal is to revolutionize the gaming industry. We aim to build a vibrant community of passionate players, facilitate interactive gameplay, and offer profitable token rewards, all within a secure and decentralized environment. The core of this transformation is the merging of the excitement and adventure of gaming with the financial prospects of blockchain technology, thus creating a uniquely satisfying experience for our users.

As we chart the course towards an exciting future, we cordially invite all gaming and blockchain enthusiasts to join us on this thrilling journey. We believe that with your support, participation, and contributions, we can reshape the narrative of the gaming industry.

However, as we proceed, it is crucial to note that the interpretation of the rules of XThrill, its mechanics, rewards system, token distribution, and governance process, ultimately remain the prerogative of the XThrill team. We pledge to execute our authority in the fairest and most transparent manner, ensuring the best interests of our community members are always at the forefront of our decision-making processes. In the rare instance where discrepancies arise, we commit to resolving such issues promptly and amicably, maintaining the harmonious functioning of the XThrill ecosystem.

XThrill is more than just a game; it's a community-driven adventure where each player plays a significant role in shaping the journey. The stakes are high, the rewards are great, and the community is vibrant. Will you take the wheel and be part of this exciting odyssey? It's time to buckle up for XThrill!

# Terms & Conditions



## 1. Area of Validity

1.1 The following general terms and conditions regulate the use of online and mobile games and other services provided by XThrill/Penta Studios (hereinafter referred to as "XThrill"), on XThrill websites and in app stores.

1.2 XThrill offers online and mobile games and other services within the context of its technical and operational capabilities, with an average annual availability of 90% (ninety percent). This does not include periods of time during which the use of online and mobile games and other services are interrupted or affected due to urgent technical reasons or required maintenance work. XThrill is not liable for these instances in accordance with the conditions of this contract. This also does not include periods of time in which XThrill general servers or the servers of certain games do not allow online access due to reasons beyond XThrill control (force majeure, third party responsibility, etc.).

1.3 XThrill continuously updates, changes, and develops its online and mobile games and other services at its own discretion. Users can therefore only participate in the respective online game, mobile game, or other offers in its respective form provided at any given time. XThrill retains the right to cease operating an online or mobile game or remove a specific service without explanation.

1.4 Online and mobile games and other services offered by XThrill are intended solely for the purpose of entertainment. The use of these games or services for business or commercial purposes is strictly prohibited.

1.5 Users are responsible for ensuring that their own software and hardware are suitable and up-to-date.

1.6 In addition to these general terms and conditions, any existing rules of the respective online or mobile game shall also apply. In the case of an inconsistency between these general terms and conditions and the rules of the game, the provisions of these general terms and conditions shall take precedence when settling the instance of contradiction. In addition, specific terms and conditions shall also apply to certain online or mobile games, specific versions and/or

components of online or mobile games, and individual services offered on XThrill websites as appropriate. Users will be appropriately informed of any specific terms and conditions prior to use of the respective offer.

## 2. Specific Terms for the Use of XThrill

2.1 The user may only take part in every round (e.g. World, Universe, etc.) of the game using one user account unless the respective rules of the game allow for exceptions from this. The use of several user accounts by one user is not permitted. Multiuser accounts such as these may be deleted or banned at the reasonable discretion of XThrill.

2.2 Users are prohibited from enacting any form of manipulative interference in XThrill. In particular, users are not entitled to utilize measures, mechanisms, or software that could interfere with the function or progress of the game. Users may not take measures that may cause an unreasonable or excessive burden on technical capacity. Users are not allowed to block, rewrite, or modify content generated by the game administration or to interfere with the game in any other manner.

### 2.3 Under no circumstances may users

- a) create or use cheats, mods and/or hacks, or any other third party software products that may change the result of the online or mobile games
- b) use software that allows the mining of data or otherwise intercepts or collects information in connection to the online and mobile games

2.4 Users are also prohibited from running the XThrill (including all individual web pages) with programs other than the internet browser or the client program that has been provided. This refers in particular to so-called bots and other tools meant to replace or supplement the web interface. Also prohibited are scripts and completely or partially automated programs that provide users with an advantage over other users. This includes auto-refresh functions and other integrated browser mechanisms if they concern automated procedures.

2.5 The automated creation of user accounts, regardless of whether the home page is displayed or not, is not permitted.

## 3. Consequences of a Breach of Duty

3.1 XThrill is not liable for damages resulting from a user's breach of duty.

3.2 Regardless of any additional legal or contractual rights, it is at the reasonable discretion of XThrill to take the following actions against any user who culpably breaches statutory law, third party rights, these general terms, and conditions, or any respective additional regulations and game rules:

- a) remove content
- b) issue a warning to the user
- c) temporarily or permanently block a user from specific or all online and mobile games and content of Goodgame Studios' websites
- d) suspend a user, also from certain game functions

3.3 If users have been blocked or excluded, they may not log in again to a service provided by XThrill without the prior consent of XThrill.

## 4. Limitation of liability

4.1 Users are held personally liable for any violation of a third party's rights. Users agree to reimburse XThrill for all damages resulting from the culpable non-observance of the obligations of these terms and conditions. Users release XThrill from all eligible claims that other users or

third parties may file against XThrill due to a violation of their rights by content posted by the user or due to a violation of other obligations. Users shall assume the costs of XThrill's legal defense, including all court and legal fees. This condition does not apply if the user is not responsible for the infringement.

4.2 The liability of XThrill, on whatever legal grounds, whether due to contractual misconduct or a breach of duty, is ultimately determined in accordance with the following rules:

4.2.1 If XThrill provides the respective liability-causing service free of charge, XThrill is liable only for malice and gross negligence.

4.2.2 In the case of non-gratuitous services, XThrill's liability is limited to cases of malice and gross negligence, but unlimited in cases of personal injury. In cases of slight negligence, however, XThrill will only be liable for a breach of essential contractual obligations such as delay or unavailability which XThrill is held responsible for. In the case of a breach of an essential contractual obligation, liability is limited to the typical contractual damages that XThrill had to calculate upon the conclusion of the contract due to the circumstances prevailing at this time. "Essential contractual obligations", as previously stated, are the obligations that may be relied upon by the user and that ensure that the contract runs in accordance with its regulations and achieves the contractual aim.

4.2.3 XThrill assumes no liability for interruptions within the network that are not the fault of XThrill.

4.2.4 XThrill is liable for a loss of data in accordance with the foregoing paragraphs only if such a loss could not have been avoided by adequate backup measures taken by the user.

4.2.5 The aforementioned liability limitations do not apply in cases of explicit guarantees made by XThrill, in cases of malice, and for damages due to the loss of life, limb, or health. Liability shall remain unaffected under the Product Liability Act.

## 5. Amendments to these general terms and conditions; Miscellaneous

5.1 XThrill retains the right to modify these terms and conditions

(a) in the event of any amendments made due to legal changes

(b) in the event of any amendments made due to decisions by the Supreme Court

(c) because of technical necessity

(d) in order to maintain company operations

(e) in the event of a change in market conditions

(f) for the benefit of the user. No amendment will take place if such an amendment would substantially disrupts the contractual balance between the parties. Users will be informed of any amendments to the general terms and conditions via the XThrill website and via the respective online or mobile game at least four weeks before the amendment is scheduled to take effect.

Alternatively, XThrill may send its users the amended general terms and conditions via email or inform them that the amended general terms and conditions can be accessed via the XThrill websites. The user is entitled to object to any amendment within four weeks. The terms and conditions are deemed to have been accepted if the user remains silent for the four-week period or if the user opens the game again after receiving notification of the amended terms and conditions. XThrill will specifically inform its users about the four-week period, the right of withdrawal, and the legal significance of remaining silent.

5.2 XThrill can transfer its rights and obligations to associated companies.

5.3 Users are only entitled to an offset if their counterclaim has been legally established or has been recognized by XThrill and is uncontested or has resulted from this synallagmatic legal relationship. Users can only exercise a right of retention provided that it pertains to claims arising from this contract.

5.4 Should any provision of these terms and conditions be or become invalid and/or oppose statutory provisions, the validity of the remaining provisions of the terms and conditions shall remain unaffected.