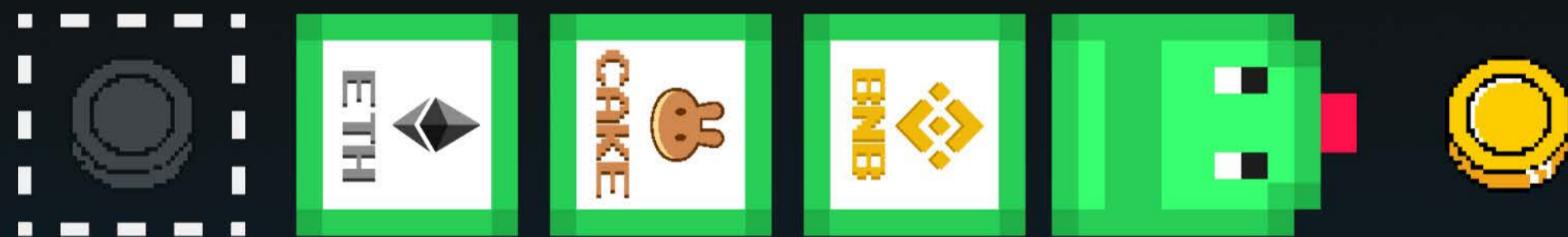




Crypto snake

DeFi & NFT



PLAY AND EARN

Blockchain NFT gaming



White Paper v0.1

INTRODUCTION

The DeFi gaming sector is growing and gaining popularity due to the growth of NFT and the popularization of the financial play-to-earn model in decentralized games. In the first half of 2021, blockchain game developers [earned](#) over \$476 million. The capitalization of the top play-to-earn tokens exceeds hundreds of millions of dollars. This indicates the rapid growth of the industry. The NFT [industry](#) demonstrates such impressive numbers, and the gaming industry follows the trend towards the use of non-fungible tokens as an innovative instrument in various gameplay scenarios.

The new GameFi sector is becoming a more and more dynamic, fluid and competitive marketplace where gaming and finances cooperate. The process of generating income is transforming from a highly complex enterprise into a gamified process available to everyone. According to the [latest statistics](#), GameFi has tremendous promise. This phenomenon will evolve rapidly with an influx of new projects looking to capitalize on this emerging market.

New high-yield mechanisms for an innovative decentralized financial sector are helping to cope with the growing economic hardship all around the world. Combined with a cool gameplay in a nostalgic genre, this makes up a play-to-earn game. This means that a player can not only have fun, but also get paid.

PROJECT OVERVIEW

The Cryptosnake project is a new participant on the decentralized gaming market. It is a unique symbiosis of DeFi and NFT in the gaming world. Cryptosnake revives the iconic concept of the classic Snake game from the 90s and 00s. Nevertheless, modern blockchain gaming is used here. There is also a unique mix of NFT collectibles, enhanced characters, and a strong financial play-to-earn component.

The Cryptosnake blockchain game provides an opportunity to create a personalized crypto-snake based on NFT token running on the popular blockchain called Binance Smart Chain (BSC). The concept of the game allow players to receive a passive and active income.

The basic gameplay elements of the classic Snake game are faithfully reproduced in Cryptosnake: you hunt for bits of food (bricks). The action takes place in an arena with pixel graphics. The snake gets bigger when it eats bricks. Unlike the classic "Snake" that came pre-installed on every phone in the mid-2000s, growing a snake leads to increased profitability for crypto staking.

By playing Cryptosnake, players can access bonuses (in-game NFT-s booster) that can be activated upon request. Artifacts can improve snake NFT parameters such as annual yield. Players can apply artifacts to their character or sell them on the secondary market to other players.

TECHNOLOGY

Cryptosnake is a DeFi game with a play-to-earn concept built on the popular and highly flexible Binance Smart Chain (BSC) blockchain, whose smart contracts provide the ability to manage multiple types of BEP-20 and BEP-1155 tokens, as well as combinations of fungible and non-fungible tokens.

One of the key technologies is NFT (non-fungible). They are used to sell digital art and many other things, including game characters. Our NFTs are the items with real value. Their value increases over time, and you can easily buy / sell them.

The main concept of the Cryptosnake project involves blocking digital assets based on the BEP-20 standard in the game's smart contract to create and increase streams of profitability and passive income from built-in DeFi tools.

Cryptosnake allows players to stake their tokens on the Binance Smart Chain to receive regular rewards in the SNAKE token. Players will also be able to feed their crypto snake, thereby increasing the profitability of their deposit. Cryptosnake's unique mechanics allow players to create an investment portfolio of many different digital assets, as well as increase their deposits in the currency of the game.

THE GAME

Cryptosnake is a browser game powered by DeFi and NFTs with a play-to-earn concept with built-in revenue mechanisms that motivate the community to stake their tokens by creating, blocking and developing unique digital NFT crypto snakes. Each crypto snake can be increased in value by adding tokens to the staking contract. Snakes also have unique individual profitability properties of the character. This makes characters unique from an economic and a technical point of view.

Players will be able to sell their digital NFT snake tokens at any time and on any NFTs marketplace, or acquire new unique abilities for their character. This may be increasing its profitability and other parameters. These NFTs are also called artifacts.

The player can also destroy his digital NFT snakes anytime. After that a player will receive all the assets locked in the crypto snake in the form of SNAKE tokens.

The number of SNAKE tokens supplied as a result of the destruction of the NFT of the snake will correspond to the total value of assets plus staking rewards (percentage of return, as on the deposit). The token rate is imported at the moment the snake is destroyed.

All payments in the game will be made using SNAKE tokens based on their current exchange rate.

The profitability parameters of each crypto-snake are determined by the rules of the game, which are spelled out in its smart contracts. All the parameters can be improved by completing in-game triggers and using NFT artifacts.

LOGICS (P2E)

To create a crypto snake, you need to send any number of BEP-20 tokens, but not less than the minimum character staking amount. The minimum amount will be described in the "Snakes" section below. When the locking is completed, the player will receive first NFT token – this is the token of the selected snake's egg.

List of wrapped BEP-20 tokens that can be sent to the game's smart contract: BNB, BTCB, BUSD, CAKE, ETH, MATIC, USDC, DOT, USDT, LTC, XRP, UNI, DOGE and others. You can feed the snake with one of these tokens, or purchase SNAKE tokens in advance on the cryptocurrency exchange.

The game begins at the moment the NFT crypto-snake tokens are sent to the game contract in staking.

The starting profitability of the staking for all new players is 60% per annum. NFT artifacts are universal. They can be transferred between players via Binance Smart Chain, and can be applied to any NFT snake.



Player moves a snake across the playing field (arena), with a limited number of squares, by clicking on each next empty square of the field to the left, front or right of the snake's head.

The genre of Cryptosnake is an incremental idle game – a game with simple gameplay. The gameplay is similar the classic snake on old mobile phones.

During each session of the game, the speed of movement of the snake increases. The player cannot independently slow down the speed of movement of the snake and must manage to turn the snake in the desired direction. The task is to eat bricks (crypto coins), dodge the squares of the playing field with mines and avoid the borders of the playing field. **Hitting a mine or the edge of the board results in damage equal to 1% of the snake's current weight/capitalization.**

The snake grows by playing on the playing field, receiving APR percentages, replenishing the snake with BEP-20 tokens, or using NFT artifacts.

Ways to make money on a crypto-snake:

1. Selling tokens earned in the game;
2. Selling snakes with good characteristics on the secondary market;
3. Selling artifacts.



Crypto Snake Feeding Process:

Squares with a logo of the corresponding token are randomly placed on the playing field. Eating a token picture leads to the registration of the corresponding token in the player's staking pool.

Coins on the playing field are assets that have been locked from new players. So, 20% of locked assets per day are thrown into the arena the next day, and all players can hunt them.

Special NFT artifacts (cheat tokens) can only be released by the project team and placed on NFTs marketplaces or received as gifts to players. You can learn more about this in the "NFTs Artifacts" section.

In order to increase the profitability of staking and develop their crypto-snake, players must complete the conditions and use boosters/artifacts. Each new bonus received by the player changes the nature of the snake's profit accumulation and endows it with new properties.

Snake character development strategies:

1. **Character development (Play-to-Earn)** – feed the snake every day in the arena with tokens thrown out by the game protocol.
2. **Character development (DeFi)** – feed the snake with cryptocurrencies and increase profitability.
3. **Using Artifacts**, including those obtained in the early stages of the game as a gift or purchased on marketplaces.



SNAKES

The game provides 4 main characters, related to a certain mechanism (trigger).

The character's story begins with an egg. The player can purchase an egg in the game by choosing the type of snake. An adult snake can only be purchased from another player. The eggs of different snakes have different ripening periods (from 1 to 14 days).

Each character and its functionality is built into the game by using NFT tokens. The profitability of a snake depends on its capitalization.



1. Dasypeltis

Starting cost – 2 200 SNAKE tokens

How to raise a snake

Buy an egg for 2200 Snake tokens and wait for the character to hatch. The egg ripening period is 24 hours.

Character properties

Tokens eaten by a snake on the playing field increase it by an amount equal to the value of these tokens (1 to 1). The Dasypeltis is the only snake that has no special abilities.

The starting staking reward in SNAKE tokens for all new game participants is 60% per annum.

The accrued staking interest is stored on the character's account and becomes available for breeding after the destruction of the snake or the use of NFT artifact with the corresponding properties.

When placing in staking (deposit) for this type of snake assets:

- If staking is 10 times more than the starting cost of this snake, the staking reward rises to 70% per annum;
- if 20 times – 75%;
- if 30 times – 80%;
- if 40 times – 85%;
- if 50 times – 90%;
- if 60 times – 95%;
- if 70 times – 100%;
- if 80 times – 105%;
- if 90 times – 110%;
- if 100 times – 115%.



Income examples:

Starting staking (1 SNAKE token ST = 0.01 BUSD)	Profitability per annum (%APR)	One day	One month	One year
2 200 SNAKE tokens = \$22	60%	2 203,6	2 310	3 520
22 000 SNAKE tokens = \$220	70%	22 042	23 283	37 400
44 000 SNAKE tokens = \$440	75%	44 090	46 750	77 000
66 000 SNAKE tokens = \$660	80%	66 144	70 400	118 800
88 000 SNAKE tokens = \$880	85%	88 205	94 233	162 800
110 000 SNAKE tokens = \$1100	90%	110 271	118 250	209 000
132 000 SNAKE tokens = \$1320	95%	132 343	142 450	257 400
154 000 SNAKE tokens = \$1540	100%	154 421	166 833	308 000
176 000 SNAKE tokens = \$1760	105%	176 506	191 400	360 800
198 000 SNAKE tokens = \$1980	110%	198 596	216 150	415 800
220 000 SNAKE tokens = \$2200	115%	220 693	241 083	473 000

**APR stands for annual percentage rate. This is how passive income the snake will generate.*

***The table is based on the starting cost of 1 SNAKE = 0.01 USDT (\$0.01). The token rate will change, so in the end, the final % APY can be much more.*

**** This table is provided as an example. It works for other types of snakes as well, but the APR may differ.*

If the amount of blocked funds exceeds the value specified in the above list of levels, the player will receive an NFT boost.

The NFT boost contains information about the increased rate. Its use will lead to a change in the nature of the snake. You will receive a new NFT snake with the same characteristics, but with an increased APR rate.

Additional accrual of boosts for profitability will require an increase in the deposit to the volumes specified in the trigger rules. The larger the deposit amount, the more % APR the player receives.





2. Viper

Starting cost – 10 000 SNAKE tokens

How to raise a snake

Buy an egg and wait for the snake to hatch. Egg ripening period is 3 days. Further, in order to grow a snake, you need to replenish it 10 times for at least 10,000 SNAKE each replenishment.

Character properties

The starting ratio of tokens consumed on the field is 1 to 1. However, after ten refills, it doubles all assets consumed on the playing field.

The starting staking reward in SNAKE tokens for all new game participants is 60% per annum.

The accrued staking interest is stored on the character's account and becomes available for breeding after the destruction of the snake or the use of NFT artifact with the corresponding properties.

When placing in staking (deposit) for this type of snake assets:

- If staking is 10 times more than the starting cost of this snake, the staking reward rises to 70% per annum;
- if 20 times – 75%;
- if 30 times – 80%;
- if 40 times – 85%;
- if 50 times – 90%;
- if 60 times – 95%;
- if 70 times – 100%;
- if 80 times – 105%;
- if 90 times – 110%;
- if 100 times – 115%.

If the amount of blocked funds exceeds the value specified in the above list of levels, the player will receive an NFT boost.

The NFT boost contains information about the increased rate. Its use will lead to a change in the nature of the snake. You will receive a new NFT snake with the same characteristics, but with an increased APR rate.

Additional accrual of boosts for profitability will require an increase in the deposit to the volumes specified in the trigger rules. The larger the deposit amount, the more % APR the player receives.



3. Python

Starting cost – **100 000 SNAKE tokens**

How to raise a snake

Buy an egg and wait for the snake to hatch. Egg ripening period is 7 days.

Character properties

The ratio of consumed tokens is 1 to 1. However, python receives a bonus to passive income (staking). The python additionally credits 0.01% daily on the amount of the character's capitalization, regardless of the player's actions.

The longer the crypto-snake NFT token is locked in the staking contract, the higher the annual rate.

The starting size of the staking reward in SNAKE tokens for all new game participants is 60% per annum.

The accrued staking interest is stored on the character's account and becomes available for breeding after the destruction of the snake or the use of NFT artifact with the corresponding properties.

Python staking interest is not capitalized, but an additional 0.01% is capitalized.

When placing in staking (deposit) for this type of snake assets:

- If staking is 10 times more than the starting cost of this snake, the staking reward rises to 70% per annum;
- if 20 times – 75%;
- if 30 times – 80%;
- if 40 times – 85%;
- if 50 times – 90%;
- if 60 times – 95%;
- if 70 times – 100%;
- if 80 times – 105%;
- if 90 times – 110%;
- if 100 times – 115%.

If the amount of blocked funds exceeds the value specified in the above list of levels, the player will receive an NFT boost.

The NFT boost contains information about the increased rate. Its use will lead to a change in the nature of the snake. You will receive a new NFT snake with the same characteristics, but with an increased APR rate.

Additional accrual of boosts for profitability will require an increase in the deposit to the volumes specified in the trigger rules. The larger the deposit amount, the more % APR the player receives.



4. Anaconda

Starting cost – 500 000 SNAKE tokens

The size of this snake changes in value depending on the frequency of feeding the snake with digital assets.

How to raise a snake

Buy an egg and wait for the anaconda to hatch. The egg ripening period is 14 days.

Character properties

Anaconda eats tokens on the arena with a coefficient of 1 to 5 (the consumed tokens are multiplied fivefold). Anaconda retains its properties as long as the regularity of staking replenishment is kept. The amount of replenishment must be at least 1000 Snakes twice a day. If the frequency of feeding the snake is violated, the ratio will roll back to 1 to 1.

The starting staking reward in SNAKE tokens for all new game participants is 60% per annum.

The accrued staking interest is stored on the character's account and becomes available for breeding after the destruction of the snake or the use of NFT artifact with the corresponding properties.

When placing in staking (deposit) for this type of snake assets:

- If staking is 10 times more than the starting cost of this snake, the staking reward rises to 70% per annum;
- if 20 times – 75%;
- if 30 times – 80%;
- if 40 times – 85%;
- if 50 times – 90%;
- if 60 times – 95%;
- if 70 times – 100%;
- if 80 times – 105%;
- if 90 times – 110%;
- if 100 times – 115%.

If the amount of blocked funds exceeds the value specified in the above list of levels, the player will receive an NFT boost.

The NFT boost contains information about the increased rate. Its use will lead to a change in the nature of the snake. You will receive a new NFT snake with the same characteristics, but with an increased APR rate.

Additional accrual of boosts for profitability will require an increase in the deposit to the volumes specified in the trigger rules. The larger the deposit amount, the more % APR the player receives.

NFT ARTIFACTS

Another option to increase the profitability of the crypto snake is to use unique in-game NFT artifacts. The player can use them to quickly increase any of his character's parameters or win a significant amount in SNAKE tokens.

Trigger conditions are not required to get artifacts. Players only need to purchase artifacts on the NFT marketplace or receive them in any other way, including as a gift from the project team.

List of artifacts:



Mystery box – 10,000 artifacts per \$10 each

Contains a random number of SNAKE tokens, from 0 to 10,000 SNAKE. To find out how many tokens the buyer of the Mystery box got, you need to apply the artifact during the game. It is impossible to find out about this BEFORE the game or somehow in advance.



Diamond – 100 artifacts, \$100 each

Adds 50% to the APR of the snake during the game. This type of artifact can be applied to one character up to 4 times. That is, you can apply 4 separately purchased Diamonds to your snake, each of which is applied 1 time, like any other artifact in Cryptosnake, but in total no more than 4 Diamonds can be applied to the same snake.



Bomb – 500 artifacts for \$300 each

Can increase any TVL (Total Locked Value – the total cost of the character) two or more times, but can also destroy the snake and all parameters, including balance and accrued SNAKE. This is the risk 🐱 How exactly the Bomb will work, you will know only at the time of application. With Bomb, there are no statistics or guarantees – everything happens randomly, and in any case it will be a surprise for you.



Mouse – 100 artifacts per \$500 each

Increases the snake's TVL by 10%. You can buy such an artifact and apply it to your snake an unlimited number of times, but you can apply each individual artifact only once



Trophy – 1000 artifacts, \$1000 each

Lottery trophy. Out of 1000 artifacts, only 100 have an effect, and the rest are empty. 10% of the income of all players will be distributed among the hundred winners. This 10% will be generated in the form of new tokens, so that eventually the rest of the players won't lose their share.



Rainbow unicorn – 5 NFT artifacts per \$100,000 each

This is the mega cool artifact. Owners of a rainbow unicorn receive 2% of the APR of all players every month. The reward is paid in stablecoins to the owner's wallet. This 2% will be generated in the form of new tokens, so the rest of the players won't lose their share.



Shadow Snake – 50,000 artefacts

The gift artifact from our team. Doubles the TVL of the snake. It works only if the TVL of the snake is more than \$100. The artifact must be activated within five days after the start of the game, and it can be applied only once to one character. The limitation is controlled at the program code level!



Snake hunter – 500 artifacts, \$200 each

After applying this artifact, all current APR will be transferred to the character's owner's wallet monthly in SNAKE tokens, so you don't need to break the snake to get tokens.



Snake charmer – 100 artifacts, \$1000 each

After applying this artifact, all current APR will be transferred to the character owner's wallet monthly in stablecoins, so you will not need to break the snake to get tokens.



Snake Time – 1000 artifacts per \$50 each

Transfers APR percent to the owner's wallet in SNAKE tokens without destroying the snake. This type of artifact can be applied to one character any number of times, but each individual one – only once.

**The list of artifacts will expand as the game develops.
Artifacts can be bought or sold on a NFT marketplace.**



SNAKE TOKEN

To implement game mechanics that combine DeFi and NFT technologies, the CryptoSnake development team is releasing an internal SNAKE token based on the BEP-20 standard. The token plays a key role in the game and is intended to be used as currency. The SNAKE token is used to pay the accrued interest for staking, to buy snakes, to feed the snake and to calculate the main part of the deposit when a game NFT character is destroyed.

Emission and distribution of the SNAKE token:



Total emission	10,000,000,000 SNAKE
Initial Token Distribution	100,000,000 SNAKE
Staking Token	9,900,000,000 SNAKE

An initial emission of 100,000,000 SNAKE tokens will be allocated to the Pancake Swap exchange liquidity pool prior to the launch of the game economy, so that investors and other market participants can purchase the token at an early stage of the project launch.

Initial cost of the SNAKE token: 0.01 BUSD

The token will be placed in the PancakeSwap liquidity pool in the SNAKE/BUSD pair

All remaining tokens in the issue of 9,900,000,000 SNAKE will be elastically issued the moment a player blocks any BEP-20 tokens in a smart contract to convert their deposit into SNAKE tokens at market exchange rates. New tokens will also be issued at the time of staking interest accrual.



HALVING

Starting APR will be cut every six months. Halving will affect players who join the project after a profitability cut. **All players who joined the project before the halving will retain the profitability of their NFT snakes.** Halving does not affect the cost of NFT artifacts.

This approach will help drive demand for SNAKE tokens in the early stages and provide early adopters with a tangible advantage over those who join 6 months or more after launch. The first NFT snake tokens to hit the secondary market will be more valuable and expensive due to their higher baseline profitability values.



ROADMAP

- 01.08.2021  Start of game development
- 20.10.2021  Sale of NFT artifacts
- 25.10.2021  Publication of smart contracts (GitHUB) 
- 28.10.2021  Initial placement of 100,000,000 SNAKE tokens (PancakeSwap) 
- 20.11.2021  Publication of reports on audits of smart contracts
- 20.11.2021  Bug Bounty Program Announcement
- 30.11.2021  **Cryptosnake game start**
- 30.05.2022  First reward halving
- 30.06.2022  Cross-chain gate
- 30.08.2022  Cryptosnake 2.0
- 30.09.2022  Cryptosnake 2.0 mobile app in Google Play and AppStore  
- 30.10.2022  Snake Battlefield
- 30.11.2022  Second reward halving
- 30.12.2022  Snake Legendary NFT Auction





CONCLUSION

Cryptosnake takes full advantage of DeFi combined with a nostalgic concept and enjoyable gameplay. Players can play an interesting game and make money at the same time.

An integrated approach to the economic model of the project is aimed at using a variety of mechanisms to increase the value of the SNAKE token in order to increase its value for all players. This motivates people to join the game as early as possible to earn as much as possible.

MANIFEST

Freedom is our value. In the era of Nokia and the old-school "Snake", the Internet was a libertarian paradise. Anyone could freely express their thoughts, receive any information and remain anonymous. That internet now makes us nostalgic.

However, the battle with the governments and corporations for Internet freedom is not lost. New technologies make it possible to bring it back. Encrypted social networks like Telegram and anonymous currencies like Bitcoin give us hope.

We have developed a decentralized game that will give you the opportunity to re-experience the spirit of the Internet of the nineties and naughts. Let this game give you nostalgia, freedom and financial independence.













This is an open-source project. The game code will be published in the public domain so that our work becomes the property of all mankind, and anyone can use them to create another play-to-earn game.

Our development team consists of people from different countries. This project is what connects us with each other and with you. So let's continue to develop our community and spread our values!


Cryptosnake Team



Future partners

-  Binance
-  Coinbase
-  Robinhood
-  Crypto.com
-  PancakeSwap
-  Uniswap
-  1inch
-  Mdex
-  Compound Finance
-  Sushiswap
-  Curve Finance
-  0x Protocol

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