

Tron Mystery Box White Paper

V1.2

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1. The world of NFT

a) Origin

Non-fungible tokens (or “NFT”s) are a special class of assets on the blockchain characterized by being unique and non-interchangeable with one another for equal value. An NFT is different from a crypto currency in that it is defined by metadata that builds-in a role, function, and value that are unique to it. Specifically, a non-fungible token can be a video game asset, a work of art, a collectible card or image, or any other “unique” object stored and managed on a blockchain.

The **CryptoPunks** is the first NFT asset that lives on blockchain. CryptoPunks are 10,000 unique collectible characters with proof of ownership on Ethereum. Each Cryptopunk is 24*24 profile art images, generated algorithmically. Most are punky-looking guys and girls, but there are a few rarer types mixed in: Apes, Zombies and even the odd Alien. Every punk has their own profile page that shows their attributes as well as their ownership & for-sale status. On the block chain, only the punk index (e.g. #2890, #8219, and so on) as an integer number get stores, and each index belongs to one owner only. The CryptoPunks was an inspiration for the Ethereum ERC-721 non-fungible token standard that today powers most crypto art and collectibles on the blockchain. It is the **origin** of NFT.

b) Why we need it

According to Forbes, the NFT market was worth roughly \$42 million three years ago. Today, the market is valued at over \$338 million. The reason behind the crazy growth of the NFT market is that people finally realized the **uniqueness and rareness** of each NFT asset.

Let's take a look at CryptoPunks. With a generator that was programmed to generate punks with a range of features and rarity. For example, there are only 88 Zombie Punks, 24 Apes and exactly 1 Alien Punk smoking a pipe. You may wonder, how much did the punks cost when first released? The answer is that you can claim a punk for free by simply paying the transaction fee of around 11 cents. But now, you have to buy a punk from other owners and need to pay the market rate. In March 2021, the #2890 alien-punk (the rarest form) was sold for 605 ETH, or \$750,000, and other forms of punks like males and females' price were also increased by 3000% in one month.

The second reason we need NFT assets in our wallet is that some NFT assets are fantastic digital arts, and worth collecting. Beeple's EVERYDAYS (a digital art image) was bid at \$69 millions. Hashmasks provides over 16000 art images from 70 artists, and were totally sold for \$2.5 millions. With the growth of the NFT market, more artists will participate in it and provide digital assets. More NFT assets will in turn contribute to the market. **This is everyone's opportunity to be among the first to participate in one of the largest collaborative NFT art projects on TRON.**

c) Inside TRC-721 protocol

With the growth of the NFT market, more developers focus on building projects in this field. Fortunately, TRON has provided standard interfaces for issuing NFT on TRON main network, and that standard is called TRC-721 protocol. TRC-721 is fully compatible with ERC-721, which is the standard for issuing NFT on Ethereum.

Let's take a look at TRC-721. Every TRC-721 compliant contract must implement the

TRC-721 and TRC-165 interfaces. Another necessary interface for every NFT contract is TRC721TokenReceiver. This method will be triggered when the contract address during receiving execution. Other optional interfaces such as Metadata and Enumeration are very useful in most cases, and are recommended to be implemented in every NFT contract.

2. Introduction

a) What is Tron Mystery Box

Tron Mystery Box is a NFT + Yield Farming project built on the TRON smart chain. It combines features and advantages of NFT and DeFi, and will be a shining star in the TRON DeFi ecosystem. Our vision is that everyone has the opportunity to own NFT assets based on the principle of fairness and openness. We believe that TRON will be a more attractive platform by providing users rare and valuable NFT assets through this project.

Let's talk about the mechanism of this project. **Each Tron Mystery Box is a blind box, and there is a unique art image inside each box.** No one knows which art image inside a box before the box is issued. Once a box is obtained by a user, the user automatically becomes the owner and the art image is revealed.

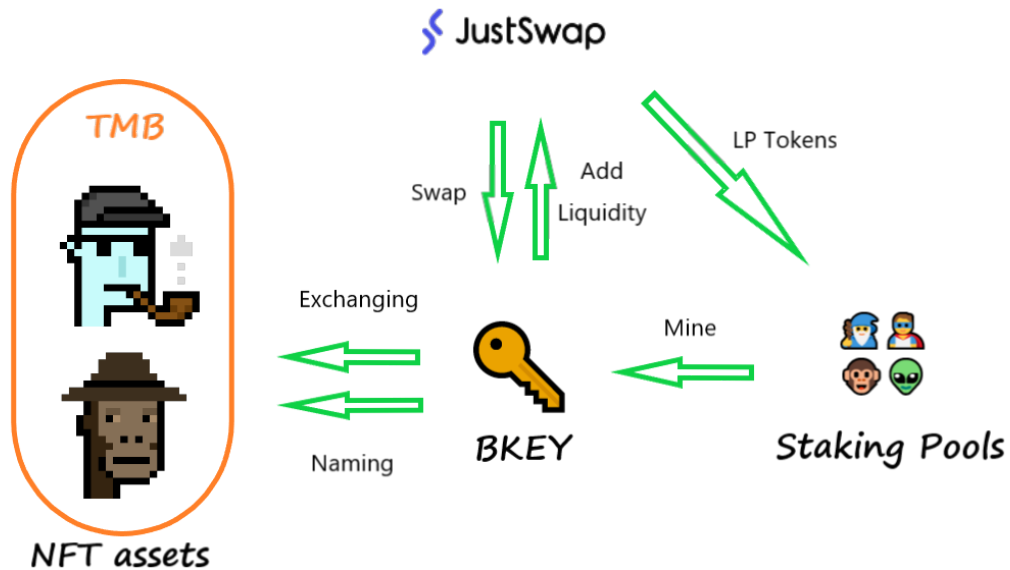
There are two ways to acquire boxes. First, users can purchase boxes in the early stage by paying TRX. In the next stage, multiple farming pools will be provided, and users can mine a special TRC-20 token called Box Key (BKEY) by staking Liquidity Provider Tokens (LP tokens). **BKEYs can be used to exchange boxes. Therefore, the second way to obtain boxes is free.** The amounts of boxes and BKEYs are set to limit numbers in smart contracts, so that those kinds of NFTs and TRC-20 tokens will be rare with time flies.

All the smart contracts are audited by a professional third party company, and will be open source once this project is launched.

b) Mechanism

Each collectible is a non-fungible token (NFT) written in TRC721 standard, and only 10000 made, with four rarity levels: Legendary, Epic, Rare, and Common. For example, there are only 88 zombie punks, 24 Apes, 9 Aliens and exactly 1 Alien Punk smoking a pipe. You can either exchange for one TMB by paying 36 BKEYs, or directly buy one TMB by paying TRX (with extra 18 BKEYs bonus!). Once a TMB is claimed, the collectible inside the box will be revealed. You won't miss this one!

TMBs are 100% on the Tron Smart Chain, a low fee and high transaction speed blockchain which allows everyone to actively have a chance to own a piece of history. You can name your very own collectibles by burning BKEYs, and each name is unique belonging to one NFT collectible. We also provide a marketplace where you can buy, trade or view all of the NFT collectibles. This project combines features and advantages of NFT and DeFi, and will work closely with existing projects such as JustSwap. In order to own more collectibles, you are encouraged to mint BKEYs by staking LP tokens in multiple mining pools.



c) Box Key (BKEY)

The Box Key (BKEY) is the native token of the Tron Mystery Box artworks. The BKEY serves two purposes. The first purpose mentioned above, which is served to exchange TMB, and can only be mined by staking LP tokens. **To encourage more users to participate in the initial offering stage, users will receive an additional 18 BKEYs per TMB purchased as an incentive.** Remember, according to smart contract logics, 36 BKEYs can exchange a new Box, so that if one user purchases two Boxes in the initial contribution period, he can instantaneously obtain an additional one by exchanging with BKEYs manually.

The second purpose is that, BKEY allows its holder to give their NFT image a unique name that is permanently stored and publicly visible on the TRON blockchain. Thus, commoditizing the name itself and making it the rarest of all attributes within the entire project. This opens up a whole new dimension for collectibles where the value hierarchy of the individual pieces of the whole collective art is highly impacted by the preferences of the owners. To name or rename an NFT, users need to burn 9 BKEYs.

The total volume of BKEY is limited, and the mining period will last for nearly one year. When the project launches, approximately 3600 BKEYs will be minted each day, which means 100 new NFTs inside the TMBs will be revealed in maximum. After 360 days (nearly one year), the emission of BKEYs comes to a halt. From then on, BKEYs can only be burnt until one day no BKEYs left and the names of the NFT assets cannot be altered anymore. The artwork is then considered complete.

Number of BKEYs minted per day: 3600

Number of BKEYs needed to exchange for one new Mystery Box: 36

Number of BKEYs required for one name change: 9

Bonus BKEYs for initial sales phase per new Mystery Box: 18

d) Innovative ideas of NFT + DeFi

Tron Mystery Box is inspired by many DeFi and NFT projects such as YFI, SUN, CryptoPunks, and Hashmasks. DeFi projects such as UniSwap provide only fungible token liquidity, but there are no rare assets. On the other hand, NFT projects such as CryptoPunks provide only non-fungible assets but lack liquidity, which is a natural fault for all NFT projects. **However, Tron Mystery Box provides non-fungible assets and liquidity assets simultaneously.** In this project, users can not only acquire rare art collectibles but also be encouraged to mint BKEYs by providing liquidity for existing TRON DeFi projects such as JustSwap by stacking multiple kinds of tokens. That is a big contribution for building a better TRON ecosystem. Combining NFT assets and BKEYs, it will show real values in the world of blockchain, and this designing mode will last long.

3. How to join it

We believe this is your opportunity to be among the first to participate in one of the largest collaborative NFT art projects on TRON. **The interesting point for Tron Mystery Box is: you don't know which art collectible is inside a blind box before you open it. It may be an epic Ape or a legendary pipe smoking Alien, who knows.** Anyway, the most important thing is to join it! Those are the recommended steps to be a participant.

a) Step 1: purchasing initial boxes

There are 3,000 unique art images inside Tron Mystery Box to be sold on the initial offering period. **Once a TMB is sold, the art image inside the blind box is revealed, and 18 bonus BKEYs will be sent to the owner immediately.** Due to expected high demand during the initial distribution period, we decided to limit a maximum of **10 TMB per transaction.**

The distribution period begins at 21:00 on 15 May 2021 (UTC), the earlier you participate the cheaper TMB you will get. The Boxes are being sold according to the schedule below.

<i>TMB</i>	<i>Price (in TRX)</i>
<i>0 - 299</i>	<i>600</i>
<i>300 - 999</i>	<i>1,800</i>
<i>1000 - 1799</i>	<i>3,500</i>
<i>1800 - 2399</i>	<i>6,000</i>
<i>2400 - 2899</i>	<i>12,000</i>
<i>2900 - 2996</i>	<i>25,000</i>
<i>2997 - 2999</i>	<i>1,000,000</i>

b) Step 2: staking to earn free boxes

The remaining 7,000 Tron Mystery Box can **ONLY** be acquired by exchanging with BKEY token, and Users can earn BKEYs in this period. It will start at 21:00 on 15 May 2021 (UTC). During this stage, multiple staking pools will be open, and users are allowed to stake their **JustSwap LP tokens** for earning BKEYs. According to the smart contracts, 3600 BKEYs will be mined per day, and it will last for 360 days. Here is the mining timeline:

Staking token	BKEY amount/day	Starting Time (UTC)	Total days
USDT-TRX-LP	1200	2021.5.15 21:00	60
SUN-TRX-LP	1200	2021.5.15 21:00	60
BTC-TRX-LP	1200	2021.5.15 21:00	60
TRX-BKEY-LP	3600	2021.7.14 21:00	300

c) Step 3: naming your assets

You are not simply acquiring a piece of rare art. You are part of the art piece. The smart contracts allow you to assign a name to your NFT asset giving you the ability to add your unique stroke to the canvas. Thus, you become one of the founding creators that shaped this raw canvas into a timeless work of art. Your NFT can serve as your digital identity as we shift towards a fully digital economy.

Each day, 3600 BKEYs are mined from the pools. You can burn 9 BKEYs to change the name of your collectable on-chain. The smart contracts require each name to be unique. Thus, creating a second layer of scarcity within the artwork. After 360 days, approximately in May 2022, the last BKEY will be emitted and from then on, the supply will only decrease until one day, the last BKEY token is burnt and the art piece is complete.

d) Step 4: trading in free market

Both the BKEYs and art collectables are tradable in the market. For BKEYs, users can exchange BKEYs with other types of token, or earn dividends by providing liquidity on JustSwap. Once the staking period starts, 100,000 BKEYs will be added to JustSwap AMM DEX to inject initial liquidity. Users are encouraged to provide liquidity, because BKEY-TRX-LP token can be used to mine the biggest part of BKEYs. We hope this project can provide users with unique artworks as well as contribute more to the TRON DeFi ecosystem.

Like other NFT assets, which are developed upon the TRC-721/ERC-721 protocol, the artworks inside Tron Mystery Box are tradable as well. Users can find a trading gateway on the project website. Every owner can sell his collectibles by setting prices in TRX, and buyers can purchase them without paying any additional fees.

4. Distribution Details

a) Tron Mystery Box distribution

Token symbol: TMB

Total supply: 10,000

Token type: TRC-721

Period	Quantity	Offering Time (UTC)	Description
Initial offering	3,000	2021.05.11 21:00	Price: grows with curve, the earlier the cheaper. Bonus: 18 BKEYs per TMB
Second stage	7,000	2021.05.15 21:00 - Last for 360 days	Price: FREE , acquired by exchanging with 36 BKEYs per TMB, and BKEYs are minted from multiple liquidity mining pool. No Bonus BKEYs in this period.

b) BKEY distribution

Token symbol: BKEY

Total supply: 1,500,000

Initial circulation: 204,000

Token type: TRC-20

NOTE: There are no team reserves, no venture capital (VC)! Just mining fairly for everyone. BKEYs belong to miners and TMB purchasers!

Distribution ways	Quantity	Percentage	Description
Mining pools	1,296,000	86.4%	Majority tokens will be mined fairly from multiple pools by staking LP tokens.
Bonus	54,000	3.6%	18 BKEYs awarded per TMB sold.
Liquidity	100,000	6.7%	Add JustSwap initial liquidity injection.
Community activities	50,000	3.3%	Marketing, and community activities.

5. Extend TRON DeFi ecosystem

c) Valuable Non-fungible resources on TRON

If we take a look at current NFT assets in blockchain's world, there are no valuable non-fungible assets on TRON network. One of the Tron Mystery Box's vision is to bring real valuable non-fungible art collectable for TRON. Many famous NFTs are living on Ethereum, such as NBA top shots, CryptoPunks, HashMasks, but none of them focuses on TRON, which is a high efficient and lower gas fees platform. Compared with the Ethereum network which costs users higher gas fees, TRON block chain has a much lower threshold. Most importantly, TRON is a public chain that is fair and open for everyone. Thus, We choose TRON to be our developing platform.

We believe that Tron Mystery Box will live longer and better than many other NFT projects in Ethereum. In the future, users from other platforms will notice this project. Together, we will make Tron Mystery Box to be the next "CryptoPunks" and "Hashmasks".

d) Cooperation with existing DeFi projects

Before we started to develop this NFT project in December 2020, Tron DeFi's total volume Locked (TVL) was under 5 billions dollars, but today in March 2021, the TVL has reached 8.5 billions, which was 70% growth. TRON has the largest supply of stable coin USDT(TRC20), and the supply grows fast in 2021, so we believe more participants will join the Tron ecosystem.

At the same time, TRON has a complete DeFi ecosystem, such as Tronscan, TronLink, JustSwap, JustLend, SUN, etc. When this project launches, a BKEY-TRX swap will be created on JustSwap, and users are welcomed to provide liquidity or exchange to earn profits. As we mentioned before, this project is not "alone" on TRON. It will cooperate deeply with existing projects by involving BKEY, and BKEY will be the core of exchanging TMB art collectables and other tokens. In the end, BKEYs will contribute TVL to TRON ecosystem and become a money-making machine for those who mines and holds BKEYs.