



MARBLECAKE

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DeFi Platform
DeFi Platform & Yield Protocols

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MARBLECAKE

Web marblecake.exchange
Email chief@marblecake.exchange
Twitter [@marblecakedex](https://twitter.com/marblecakedex)
Medium marblecake.medium.com
Telegram [@marblecakedex](https://t.me/marblecakedex)



1.0 Abstract

Marblecake creates services for Decentralized Finance. The project develops solutions for the trading, farming & staking of cryptocurrencies as well as tokenized assets such as tokens pegged to real world underlyings.

Networks

In its genesis, Marblecake offers its products on the Binance Smart Chain. Subsequently, the project will integrate with Polygon, Avalanche and other blockchains. In keeping with the aim to facilitate trading with low fees, secure transactions, high speed, Marblecake will deploy on cost-efficient blockchains exclusively.

As large groups of retail investors will enter the DeFi sector the coming years, Marblecake seeks to cater to this growing segment. By making DeFi services easier to use, controlling risks & providing a smooth User Experience, the platform will present an excellent starting point for this target group. Moreover, Marblecake builds on improving risk-to-reward ratios skewed to the latter, implementing verification systems for tokens among other features.

Yield Farming

Users can add liquidity by supplying two pairs of tokens and thereby earn 0.17% on every transaction made in the pool. In addition, yield enhancement development (slated for Q4, 2022) will provide additional tools to increase returns on farming and staking. The team is working on a yield aggregation feature that will maximize yields with automated investment calibration, which will make the process more user-friendly and well suited for DeFi beginners.

Marble Pegs

In addition to the DEX, Marblecake offers native pegged tokens. These assets offer traders a more economical way to utilize otherwise expensive real-world assets. Marble Pegs form a fundamental element in the ecosystem as they enable users to trade 'external assets' such as Fiat currencies without leaving the blockchain. The development & marketing of pegged tokens will intensify throughout 2022 as DeFi will eventually enter another upswing, increasing the need for tokenized assets - Marblecake will be at the forefront of it.

Decentralization

Decentralization entails non-custodial swapping, transferring and staking. Marblecake does not hold user's keys and only offers the tools needed to interact with the blockchain directly. The protocols are automated processes that run without the interference by the deployer.

Anonymity • Autonomy • Agility

Marblecake offers users the following benefits:

Non-custodial trading

- *No withdrawal fees*
- *Instant swaps*
- *Full transparency*

Yield Farming

Staking

Yield Aggregation

Wide range of tokenized assets

- *mEUR*
- *mUSD*
- *mBNB*
- *mADA*
- *+ More to come*

Anonymity

- *Users interact directly with the blockchain through Marblecake's interface*
- *No personal information is ever collected*
- *No KYC*
- *No geographical restrictions*

Autonomy

- *At no time does Marblecake hold user's tokens*
- *Users retain full control over their keys at all times*
- *Users use the smart contracts at their own discretion*

Agility

- *High-speed trading*
- *Fast block times*
- *Instant swaps*

With the use of decentralized protocols, Marblecake offers users the maximum in anonymity, autonomy and agility. Whether the aim is to trade, stake or pool funds, users proceed at their own discretion without the need to register or otherwise log onto the platform. Simply connecting a wallet is sufficient to start using the services.

1.1 Decentralized Finance

DeFi, as a blanket term for decentralized financial blockchain services, encapsulates a wide range of technologies. Aided by smart contracts, users can transact, stake, trade assets among other activities without the interference of third parties. This is what makes DeFi inherently different from earlier manifestations of blockchain finance: Projects like Marblecake provide the infrastructure to help users utilize it autonomously.

Smart contracts are the backbone of DeFi. They can be likened to vending machines in that they operate without an intermediary and can be accessed by anyone (unless coded otherwise). This means that projects can re-use (or 'fork') existing contracts on a chain and build on proven concepts, which in turn facilitates faster development cycles without sacrificing security.

DeFi has already started to shake the financial technology at its core. It offers a new level of security, autonomy, transparency and privacy unavailable in traditional finance. As it will continue to attract new users, Marblecake positions itself at the front as an easy gateway to join the crypto economy. With new exciting investment opportunities coupled with low entry barriers, DeFi is a gateway for Marblecake to attract new user segments. It aims to be a powerful 'entry-level' solution that is easy and safe to use.

The Shape Of Money To Come

After the DeFi rally in 2020, the sector skyrocketed as more and more services and products were offered. Not surprisingly, the marketplace has hit new all-time highs both in terms of total value locked (TVL) and the number of users.

In 2021, in spite of lockdowns and a global economic crisis (or because of it?), DeFi soared more than 335% to USD 85 Billion in market cap. While still but a fraction of value locked up in traditional finance, recent developments show the outline of things to come – DeFi is projected to grow exponentially the coming years as it goes mainstream.

2022 is the perfect year to enter the market both for new crypto investors and projects alike.

Marblecake makes it easy.



Binance Smart Chain

The reason Marblecake builds on the Binance Smart Chain ('BSC') instead of Ethereum or a layer 2 solution is simple: transaction costs. As transaction costs on Ethereum have exploded the past year, making small to medium sized trades prohibitively unprofitable, BSC serves as an alternative for DeFi projects with high transaction volumes.

While not a 100% decentralized chain, BSC's fast block times and low fees give users as well as developers the best of two worlds: agility and economy. Moreover, thanks to its dual-chain architecture, BSC allows users to transact between blockchains. Interactivity is critical in DeFi protocols as it enables users to tap into a huge ecosystem with many types of applications. In addition, BSC was created to improve scalability linked to high-throughput to achieve faster transaction times & short confirmation times.

BSC presents the genesis blockchain for Marblecake. The project aims to branch out to other blockchains in due time including Polygon, Fantom & Avalanche.



2.0 Platform Features

Marblecake is a decentralized financial ecosystem that offers tools for a wide range of needs. As the project grows, more features will be added.

2.0.1 DEX (The Core)

The AMM (Automated Market Maker) DEX (Decentralized Exchange) is the heart of the platform.

A Uniswap fork, Marblecake's DEX is an autonomous program on the Binance Smart Chain. Liquidity is provided by users who function as Liquidity providers or 'LPs'. As an LP, the user earns 0.17% on every trade made in the pool. LP's receive Marble-LP tokens when adding token pairs. These tokens can be liquidated and the user receives the tokens he initially supplied plus the earnings generated during the pooling period.

The DEX interacts in a non-custodial way with the blockchain. The platform does not hold any of the user's tokens or keys and users swap tokens directly without any interference from Marblecake. Similar to a self-running vending machine, this innovative process enables a new autonomy for users.

The DEX applies the so-called $x*y = k$ model, also known as the *constant product model*. Championed by Uniswap, the model allows a user to swap any two tokens in a pool. These tokens, in turn, are facilitated by Liquidity Providers who, as the name implies, provide liquidity to the exchange's pool. In terms of liquidity, the model affects the ratio per token in the pool and consequently the price as well. Excessive price deviations are normally evened out by arbitrage traders.

2.0.1.1 Fee Structure

Trades on Marblecake incur an LP fee of 0.25%. 0.17% of the fee is paid directly to liquidity providers, while the remaining 0.08% are added to Marblecake's treasury fund. Network fees are subject to change but are commonly in the \$0.18 region on BSC. As DEX expands to Polygon and other networks, fees will become more economical as well.

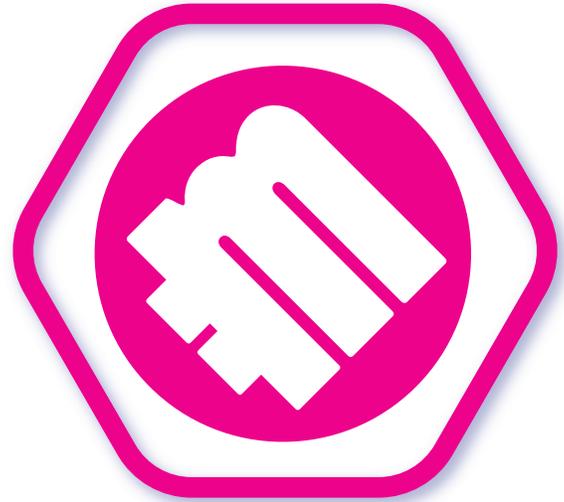
2.0.1.2 Yield Farming

Marblecake's DEX works with 3rd party liquidity provided by so-called Liquidity Providers, "LP's". As a compensation for providing liquidity, LP's earn a 0.25% fee on every trade made within the pool they have submitted pairs to.

2.0.2 Marblecake Token (MARBL)

MARBL is the native token in the Marblecake ecosystem. It will be launched as an IDO and can be traded instantly upon the start thereof. The main features of MARBL tokens are:

- Rewards for farming: There will be many pools for farming. Liquidity providers will earn an amount of Marble that corresponds to the total amount of liquidity they added.
- Governance: Marble holders will have the right to change parameters and features of the Marblecake ecosystem in the future.
- Launchpad: To participate in upcoming projects on the Marblecake launchpad, a holder must lock a certain amount of MARBL to farm lottery tickets.



Moreover, Marble tokens will play a crucial role in the development & expansion of the Marblecake ecosystem in the future. Marketing strategies, listing exchanges bounties & more will use Marbles as rewards and for fees.

2.0.3 Marble-LP Token

Marble-LP is the DEX's LP token. Marble-LP tokens are rewarded to users who pool liquidity on the DEX (liquidity providers). LP tokens function very much the same way as a BEP-20 token and can be moved from one wallet to another at the holder's discretion. It must be noted that a liquidity provider must hold onto the LP token to be able to liquidate the pairs staked in the pool.

2.0.4 Marble Pegs

To more easily facilitate liquidity on the DEX, Marblecake maintains multiple pegged tokens, also known as Marble Pegs, as counter-pairs in the pool. The staple of Marble Pegs are synthetic assets and offer exposure to the underlying prices of the pegged asset. Also known as algorithmic stablecoins, although not all underlyings are fiat-based.

Pegged assets are an important part of the tokenized economy. By bringing real-world assets to the blockchain, users have the advantage to trade in, for example, Fiat-based assets without leaving the ecosystem.

To further the tokenized economy, Marblecake will introduce more real-world assets to its DEX and port them to the blockchain. They include traditional financial assets such as stocks, bonds, real estate.



Marble US Dollar



Marble Binance Coin



Marble Euro



Marble Cardano

Four primary Marble Pegs to be launched

Marble Peg Benefits

Marble Pegs are especially useful in situations where common Fiat is not available, such as on a DEX without Fiat on/off-boarding. In such a situation, pricing trades or hedging in Fiat is impossible. With Marble Pegs, users have the possibility to use de facto Fiat tools for their strategies. Moreover, a DEX is able to price in Fiat without bank connectivity.

Higher fluidity than real world assets

- Thanks to fast block-speeds & instant settlement Marble Pegs can be traded faster than the underlying assets (~20 second blocktimes on BSC)
- There are no opening hours or holidays to consider

No geographic restrictions

- Marble pegs can be traded anywhere, 24/7, in any amount
- Resistant to censorship

Trading benefits

- As a quote currency for trading pairs, Marble Pegs represent a huge opportunity to be on the side of every trade. Fiat-pegged Marble Pegs are a natural tool for traders to assess market value.

Pegged tokens also present an ideal asset to park cash in, which is especially beneficial during protracted market downturns. Given the high positive correlations between crypto-assets, having an uncorrelated asset such as Fiat-pegged Marble Peg could mean the difference of surviving market cycles or not. In a sense, Marble Pegs can be perceived as short-term stores of value.

Moreover, Marble Pegs act as medium of exchange: Stable value units atop blockchain infrastructure make a compelling case as technology to underpin modern money transfer systems.

How Marble Pegs work

A pegged token's price is, as the name implies, pegged to the price of its underlying asset. mUSD, for example, is tied to the price of the USD and will always be pegged to 1.00 USD per token. Minor variations may occur and allow for arbitrage opportunities with deviations rarely exceeding ~2%.

Marblecake's pegged tokens are backed by mixed reserves consisting of Marble tokens, BNB and BTC with an over-collateralization rate of 25%.

Marble pegs manifest as supply-elastic currencies that rebase the total supply on a pro-rata basis according to supply and demand dynamics. Marblecake adopts a rebasing algorithm whereby the supply of pegged tokens expands and contracts conditional to a deterministic rule that is based on the daily time-weighted average price (TWAP). As an example, if a pegged token falls below \$0.97, the algorithm executes a contraction in supply; at the other end, if the TWAP rises above \$1.03, it would automatically lead to an expansion.

Yield Tokens

2.0.5 Yield Tokens

Yield tokens are protocols that automatically generate profits for its holders. This is accomplished by combining burn mechanisms with an advantageous fee structure. The fee structure is funded by a transaction fee that is awarded to holders and the protocol itself while simultaneously reducing the amount of tokens in circulation, thereby creating a scarcity that affects its price positively.

Holders of yield tokens only incur a fee upon transaction and will thereafter earn interest passively. This sets it apart from common tokens in that holders never have to sell the token to lock in a profit.

Marblecake's first-generation release in this category will be MarbleQuake. MarbleQuake pays its holder 6% on every trade made with it. The remaining 6% are delegated to the liquidity pool. Holders both earn a healthy profit while helping to fund the liquidity pool, which in turn helps the project to grow.

Meet Marble's Twin Sibling: **MarbleQuake!**

Coming in Q3-2022 - Follow us on Twitter for whitelist opening!

High-Yield Token
6% Guaranteed Yield
Built-In Burn Mechanism
Automatic Appreciation

2.0.6 API Access

Marblecake will eventually add unlimited RESTful API access to its contracts interfaces.

2.0.7 Staking (coming soon)

2.0.8 Launchpad (coming soon)

2.0.9 Lending (coming soon)

2.0.9 Cross-Chain Bridge (coming soon)

2.1 Platform Security

As the DeFi industry grows & gains in popularity so too the demands on security increase. As a result of its rapid evolution, vulnerabilities have been exposed & exploited by hackers. Unfortunately, when this occurs, the end user is the one suffering the bulk of financial losses.

Marblecake devises several solutions to maximize its security:

- Smart contract audits: We aim to have our contracts fully audited by reputable third parties.
- To detect unusual transactions including suspiciously large volume transactions, high frequency transactions within a short time and actions of malicious whales, we will implement a stringent monitoring system.
- Contracts can be paused in the case the system incurs an error or similar.
- A reserve fund for compensation if any loss occurs.

3.0 Objectives

In addition to providing high-quality DeFi tools, Marblecake targets the following objectives:

- Reach out to retail investors new to the DeFi sector
 - Simplify access to crypto assets & trading
 - Make the use of DeFi tools more secure
- Mass adaption of DeFi products
 - With a significant number of the world population not on the blockchain, Marblecake sees great potential in launching reach-out programs to stimulate crypto adaption, thereby building new user segments
- Develop high-yield protocols that elevate the necessity to sell a token to lock in gains
 - Automatic yields built-in
 - Safe long-term positions with guaranteed interest payments
 - Hard-coded scarcity by use of burn-mechanism

3.1 Tokenomics

Marble successfully completed its 1st IDO in February 2022, which helped get the project off the ground. To initiate the 2nd phase, we will run a 2nd crowdsale in Q2-2022, whose funds will be used as liquidity provisions on PancakeSwap & the native DEX as well as to finance marketing and further development.

Native token:	Marble Token
Genesis supply:	1,000,000,000

- 2nd Crowdsale Soft Cap: \$500,000
 - Funds allocation:
 - Liquidity Pool (67%)
 - Marketing (23%)
 - Development (10%)

The crowdsale will occur through our website. Upon completion, Marble will be listed on PancakeSwap immediately for trading. As liquidity is critical for price stability, we have earmarked the bulk of funds raised to provide the pool.

- Marble token allocation:
 - 80% allocated for community (available to public)
 - 10% Founders
 - 10% Treasury

3.2 Roadmap

Q2, 2022

The 2nd quarter of 2022 will see Marble laying the ground for further growth. We will complete the crowdsale, overhaul the DEX & focus on marketing.

- Crowdsale II
- Prepare DEX for re-launch
- Bounty Campaigns
- Marketing Campaigns

Q3, 2022

During the 3rd quarter, Marble hodlers can start trading their assets on PancakeSwap & our native DEX. More marketing will follow as the project gains traction.

- List on Pancakeswap
- Relaunch native DEX
- List on Native DEX
- Marketing Campaign II

Q4, 2022

To round off 2022, we will launch the bridge around November 2022. In addition, the launchpad will be ready along with the staking farm protocols.

- Launch Bridge
- Add Launchpad
- Staking Contracts
- List mARBL on more DEX's

Q2, 2023

Kicking off a great start into 2023, Marble will deploy on more networks, run more marketing campaigns & target CEX listings.

- Cross-Chain Deployment
- Marketing Campaign III
- Target CEX listings
- Continue Development

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- Any error, omission, or inaccuracy in any such information
- Any action resulting therefrom

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Cryptocurrency exchange rates have exhibited strong volatility to the date and extent of exposure to potential loss that could extend to the entire cryptocurrency investment. Many factors outside the control of Marblecake will affect the market price of cryptocurrencies, including but not limited to national and international economic, financial, regulatory, political, terrorist, military, and other events, adverse or positive news and publicity, and generally extreme, uncertain, and volatile market conditions. Extreme changes in price and ability to sell/exchange may occur at any time.

