

CryptoChefs



White Pepper

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Content

Introduction	3
Mise en Place	4
Player Roles	4
Chefs	4
Foodies	4
CHEF NFT	5
AROMA Token	6
Main Course	7
Market	7
Kitchen	8
Recipes	8
Burning a Recipe	10
Buffet	10
Reward Pools	11
Ranking and Rewards	12
Dessert	13
Mignardise	14
Roadmap	14

Introduction

Welcome to the flavorful world of CryptoChefs. CryptoChefs is a learn-to-earn NFT game that offers fun trading competitions to its players. At CryptoChefs, seasoned traders create so-called “Crypto Recipes” which represent a crypto portfolio and compete against other players’ recipes for daily, weekly, and monthly rewards. The aggregated real-world performance of each token within a recipe determines the overall performance and the ranking of the recipe, and hence the share of the reward pools.

In this white paper, the different player roles, game mechanics and tokenomics are introduced in more detail. In order to better understand the subsequent chapters, the following table provides an insight into the terms used herein.

Term	Definition
Chefs	Players of the game that create recipes
Foodies	Players of the game that stake AROMA on recipes that are not their own.
CHEF	NFT token that is required to participate in our game as a chef
AROMA	ERC20 token that is used for buying a CHEF NFT, creating recipes, and recipe name change
Recipe	Metadata of the CHEF that consists of a list of ingredients, which represent a data pair of tokens and their percentages for a specific recipe, e.g. [BTC, ETH, SOL][50%, 25%, 25%]
Kitchen	This is the main application of CryptoChefs, where chefs create, review, and deploy recipes
Pouch	DESCRIPTION + LINK TO WHERE IT COMES IN FOR ALL “SPECIAL” WORDS

Table 1: Glossary

Mise en Place

As befits any proper kitchen, the mise en place plays a vital role. In this chapter, the player roles are introduced, our NFT token is explained in detail and last but not least, the utilities of the fine-tasting AROMA token are described.

Player Roles

At CryptoChefs, it's upon you to decide how you want to dive into the rewarding adventures of the game. Do you want to take matters into your own hands and create the most delicious recipes as a chef? Or would you rather go hunting for the best recipes as a foodie?

Chefs

As a seasoned chef, you have tons of different ingredients at your disposal, from which you can use three to twenty for your own unique recipe. You set the composition yourself and determine how large the proportions of each individual ingredient should be. Once you have created your unique combination, you need to decide how much AROMA you want to add to your recipe. You crown your glorious recipe with a unique name and are then finally ready to enter the competition. Surprise the world with your knowledge in the field of cryptocurrencies and secure further AROMA staking from the foodies with your profitable recipes.

Foodies

Foodies love trying out new recipes and enjoy nothing more than to have a taste of the magical mix of ingredients that our chefs come up with. Foodies can be professional or aspiring chefs or might just enjoy having a taste of everything that our buffet has to offer. In this sense, they have the opportunity to stake AROMA tokens in a recipe that performs well.

CHEF NFT

CHEF is our NFT token that is based on the ERC721 standard and issued on the Polygon & Ethereum blockchain. The CHEF tokens represent the players of our game and serve as a basis to play our game. Our NFTs have the following functions:

- Three pouches of which each can hold a recipe
- Holding AROMA stakes on each recipe
- Display recipe performance measurements

We love the art of our CHEFs and programmatically ensure that every CHEF of the 5'555 that is ever going to be minted is unique. Each CHEF is created using a random avatar generator. Upon choosing a base chef, the generator iterates through each trait, randomly choosing one, and comparing the completed output to the already existing CHEF NFTs. The CHEF images are then deployed on the InterPlanetary File System (IPFS) and ready for the reveal. The following illustration shows the base traits that make up our NFTs.

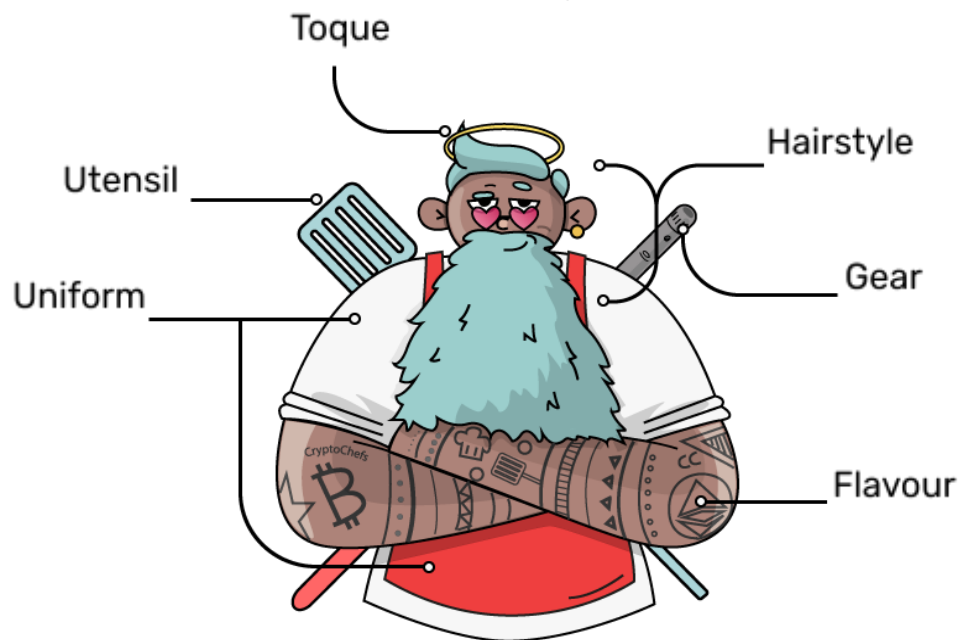


Figure 1: CHEF Anatomy

CHEF NFTs are offered in Seasons and come in many different distinctive background lores. In the first season, the **hipster, zombie, ninja, vampire and cyborg** CHEFs beheld the light of the blockchain world.

AROMA Token

AROMA is an ERC20 token and considered CryptoChefs' 'bread & butter'. It is used across the whole CryptoChefs ecosystem and provides the holders with a lot of utility that goes above and beyond this game. The following table gives an overview of the current utility, which we will keep expanding in the future.

Utility	Definition
Purchases	Minting new CHEFs in our market.
Cooking Recipes	Participating in competitions requires staking AROMA tokens in recipes.
Staking	Chefs and foodies use AROMA to delegate them to existing recipes that they trust.
Name Changes	Changing the name of a recipe costs 200 AROMA tokens.
DAO	Reserved for future DAO functionalities.

AROMA tokens are issued on the Polygon blockchain under the following smart contract address: **0x444DBcb15Ea0d706C04DaB615374a11759E07A25**

Currently, chefs can swap MATIC for AROMA on QuickSwap. In the future, we will add more pools for more convenience. The details about tokenomics are covered in the last chapter of the White Pepper.



Main Course

The main course covers the major parts of the game that make up our application. But before we head into these hot plates, it is important to briefly summarize what the goal of the game is for the players. In short, the goal for each chef is to create the best performing recipe, which has a better performance for the defined timeframe than other recipes created by competing chefs. In addition to recipe performance, successful chefs strive to secure as many AROMA stakes for their recipes as possible. For foodies, on the other hand, the goal is to find exactly these recipes and decide how much to stake in them. It's also important for them to keep an eye for new / better-performing recipes and to make changes accordingly.

Market

For a professional chef, access to a market is just as important as the freshness of the ingredients used in the recipes. In CryptoChefs, our market is the ideal place to swap your MATIC for some fresh AROMA tokens, which you can use to get your hands on your unique CHEF NFT.

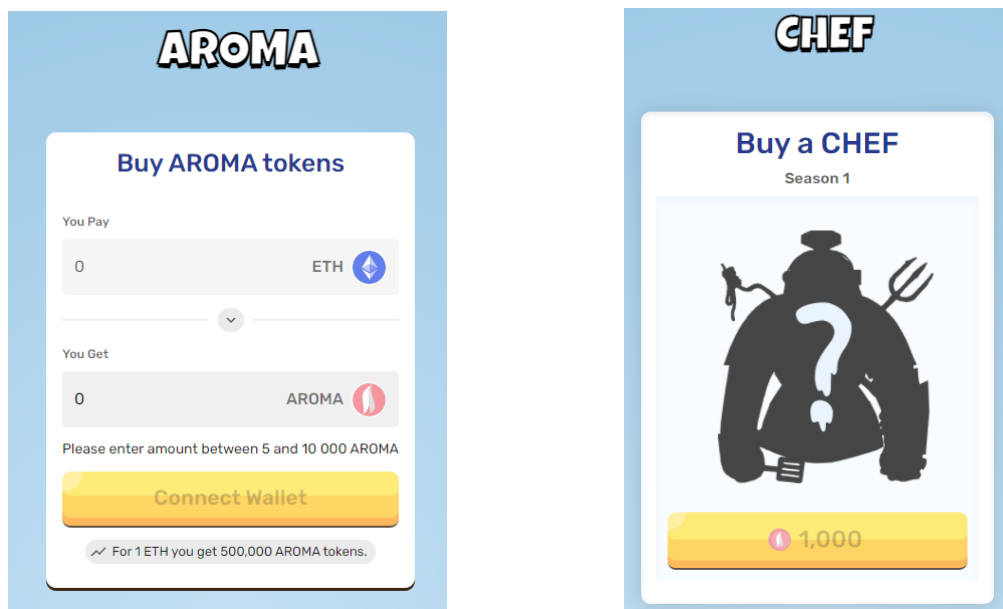


Figure 2: CryptoChefs Market overview

After successfully minting your CHEF, it is time to sit back, relax and wait for the official NFT reveal. Every day at 20:00 GMT, all NFTs that were sold during the day

will be revealed. Are the CHEF NFTs already gone like hotcakes? Then we are already working on the next season and while we are at it, try your luck on OpenSea: <https://opensea.io/collection/cryptochefs-io>

In the future, our own market will allow chefs to trade their NFTs with other chefs and haggle for the best prices within the ecosystem. Once you have made your purchase, it is time to join the crypto kitchen and create your first recipe!

Kitchen

The kitchen is our magical place where the best chefs meet to create their unique and profitable recipes and share their secrets with the community. Our kitchen is accessible to chefs and foodies alike to throw together their dream recipe and check out its historical performance. The following subchapter dives into the details of our recipes.

Recipes

Just as every cook is famous for their signature recipe, our crypto recipes are the main part of the game and the signature of every chef. The success of these recipes and thus the key to victory in this game are the know-how of the chef, the current market situation, as well as the precise evaluation of current and future world events impacting the crypto space. The tastiest recipes consist of a minimum of three and up to a maximum of 20 cryptocurrencies in 5% steps. Every recipe is unique and no other chef is allowed to use the exact same recipe to play the game. Hence, the chefs also need to bring creativity to the crypto kitchen to come up with innovative recipes and dominate the leaderboards. The images below illustrate what such game-defining recipes could look like:

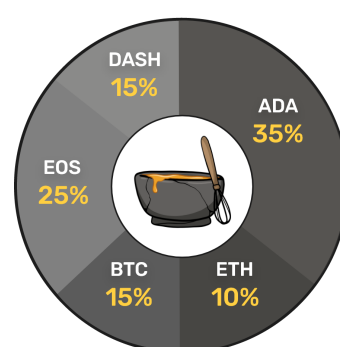
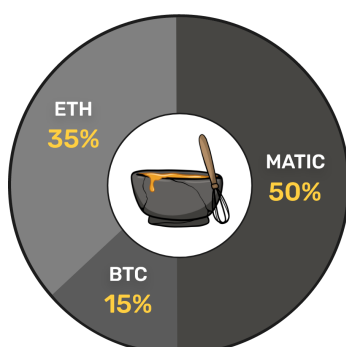


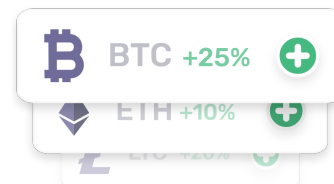
Figure 3: Recipe example

Figure 4: Recipe example 2

Professional chefs enjoy their own food as proof that they love it. CryptoChefs follows the same principle, except that we stake AROMA tokens on the recipes we love. In this sense, before we can move on to the final step of creating a recipe, every chef has to stake a minimum of 200 AROMA tokens on the recipe. There is no upper staking maximum for the chefs and foodies. The staked AROMA is used as an additional indicator to calculate your share from the reward pools which is explained further below. To finally complete a recipe, chefs have to give their signature recipes a fitting name for even more recognition value in the game.

In a nutshell, the following figure summarizes the process of cooking a recipe.

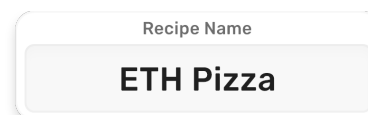
1. Choose your ingredients
(Min. 3 - Max 20, 5% steps)



2. Stake your AROMA
(Minimum 200)



3. Name your recipe



Once you are happy with your recipe and decide to go for it, it will be added to the buffet which is explained in the next chapter.

On the other plate, the staking minimum for foodies is 1 AROMA and they can choose the staking duration individually. Be it a week, a month, or six years is up to the foodies to decide. There is also no limit on how many recipes they can stake their delicious AROMA on.

IMPORTANT NOTE: When cooking a recipe, the cryptocurrencies used are not being bought literally. Rather we use them as metadata to measure the recipe performance!

Burning a Recipe

To remain successful, the menu of a star chef needs to be adapted sometimes. Thus, every chef can burn his/her recipes to make room for something new. Burning a recipe is especially handy for recipes that do not perform as well as initially thought and secondly allows chefs to withdraw from the game. When burning a recipe, 80% of the staked AROMA tokens will be returned to the wallet of the creator, and 20% will be fed back to the reward pools. Burning a recipe incentivizes chefs to act in good faith and create the best possible recipes, and prevents players from spamming recipes. Burning a recipe leads to the unstaking of all the foodies' AROMA tokens (i.e. the chef loses the foodies on that recipe). Burning a recipe puts the pouch on a 30-day cooldown before a new recipe can be created.

Buffet

Regardless of where in the world the chefs come from, our buffet unites all active recipes in one place. Every recipe that leaves our kitchen is listed on the buffet. Here begins the second phase of the game. In the buffet, the performance of all recipes is measured and the rewards are distributed accordingly. The buffet is also considered the main playground for the foodies. Foodies can look through the active recipes and decide at the same time which recipes they would like to stake AROMA on. The following subsections describe the available reward pools and explain how the ranking and reward system works.

Reward Pools

The largest share (60%) of all AROMA tokens is delegated to the reward pools. 90'000'000 AROMA tokens are divided into four sub-pools, namely: daily, weekly, monthly and event-based pools. The reward pool grows with the number of recipes created.

Pool	Allocated Amount (AROMA)			Monthly Depreciation
Daily	>1'000 Recipes	>2'500 Recipes	>5'000 Recipes	1%
	1'000 AROMA	2'000 AROMA	5'000 AROMA	
Weekly	>1'000 Recipes	>2'500 Recipes	>5'000 Recipes	1%
	10'000 AROMA	20'000 AROMA	50'000 AROMA	
Monthly	>1'000 Recipes	>2'500 Recipes	>5'000 Recipes	1%
	50'000 AROMA	100'000 AROMA	200'000 AROMA	
Event-Based	Depending on the event			None

Table 2: Overview of reward pools

It is our goal that the game can theoretically be played forever. For this purpose, the reward pools depreciate every month by 1%. However, the depreciation only goes into effect, once we reach 5'000 active recipes. We are also constantly working on introducing event-based reward pools for current events. These can be additional games for Christmas or New Year or other occasions that are celebrated around the world. For these pools, the duration of the game, the amount of the rewards and, if applicable, the rules of the game are announced before the event.

Ranking and Rewards

The following table gives an overview of the competitions, the times of performance measurement and eligibility.

Competition	Time of measurement	Eligibility
Daily	Daily at 09:00 CET	Recipe active for 24h
Weekly	Every Sunday at 09:00 CET	Recipe active for 7 days
Monthly	Last day of the month at 09:00 CET	Recipe active for the whole month
Event-Based	Specified at time of event	Specified at time of the event

Table 3: Time table and eligibility

To rank the performance of the Chefs, the smart contract uses a point system. First, it takes a look at how well the cryptocurrencies of each recipe performed in the real world in the given timeframe. Then the overall recipe's performance is calculated. Naturally, it is also possible that for a certain recipe, the price of all tokens used decreased in the given timeframe. In such situations, the chef receives no points at all and hence, ranks lowest. In this sense, the player with the highest score ranks in the first place and the others accordingly.

For the daily rewards, the points will be reset every day. In the weekly and monthly competitions, the points are aggregated over the respective time period. This means that a player that ranked in the lower ranks two days in a row, still has the chance at the weekly and the monthly competition.

The distribution of the rewards is based on the recipes' performance and the number of AROMA tokens locked in the recipes. The more AROMA tokens a Chef locks in the recipe, the higher the share of the reward pools that can be collected. For example, if two Chefs achieved the same amount of points, Chef 1 who locked 50% more AROMA tokens in their recipe than Chef 2 will receive a bigger share of the rewards. This mechanic adds to the complexity of the game and motivates the Chefs to come up with the best strategies and increase the amount of locked AROMA.

Dessert

The AROMA tokens are distributed as follows:

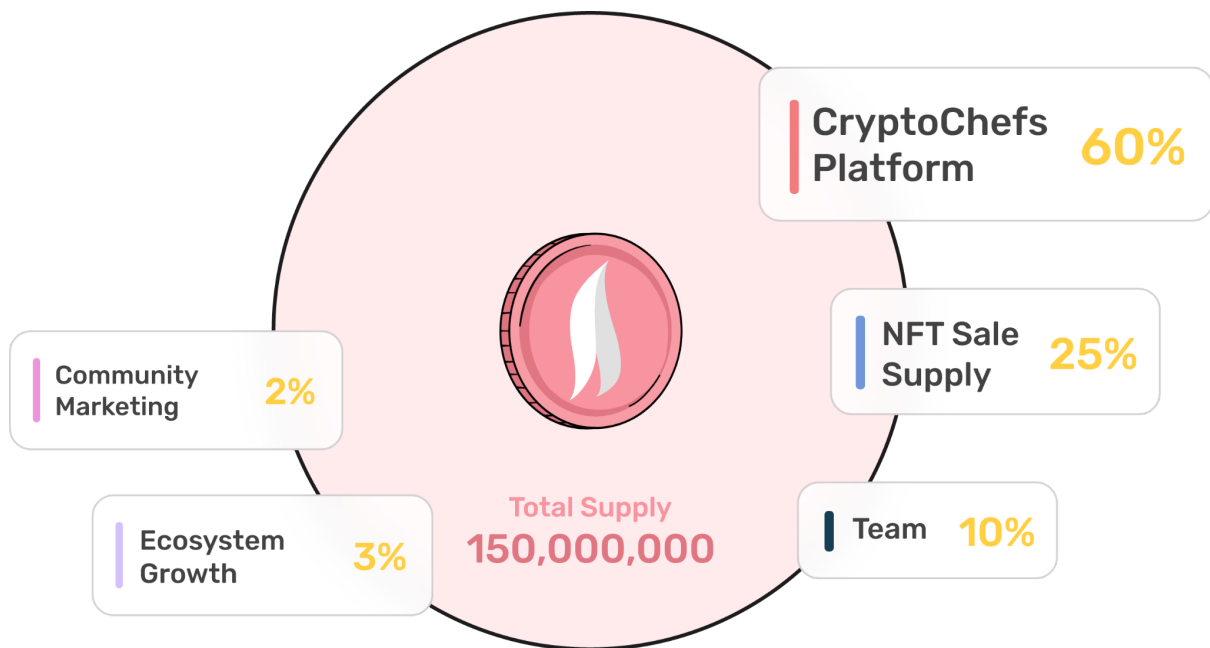


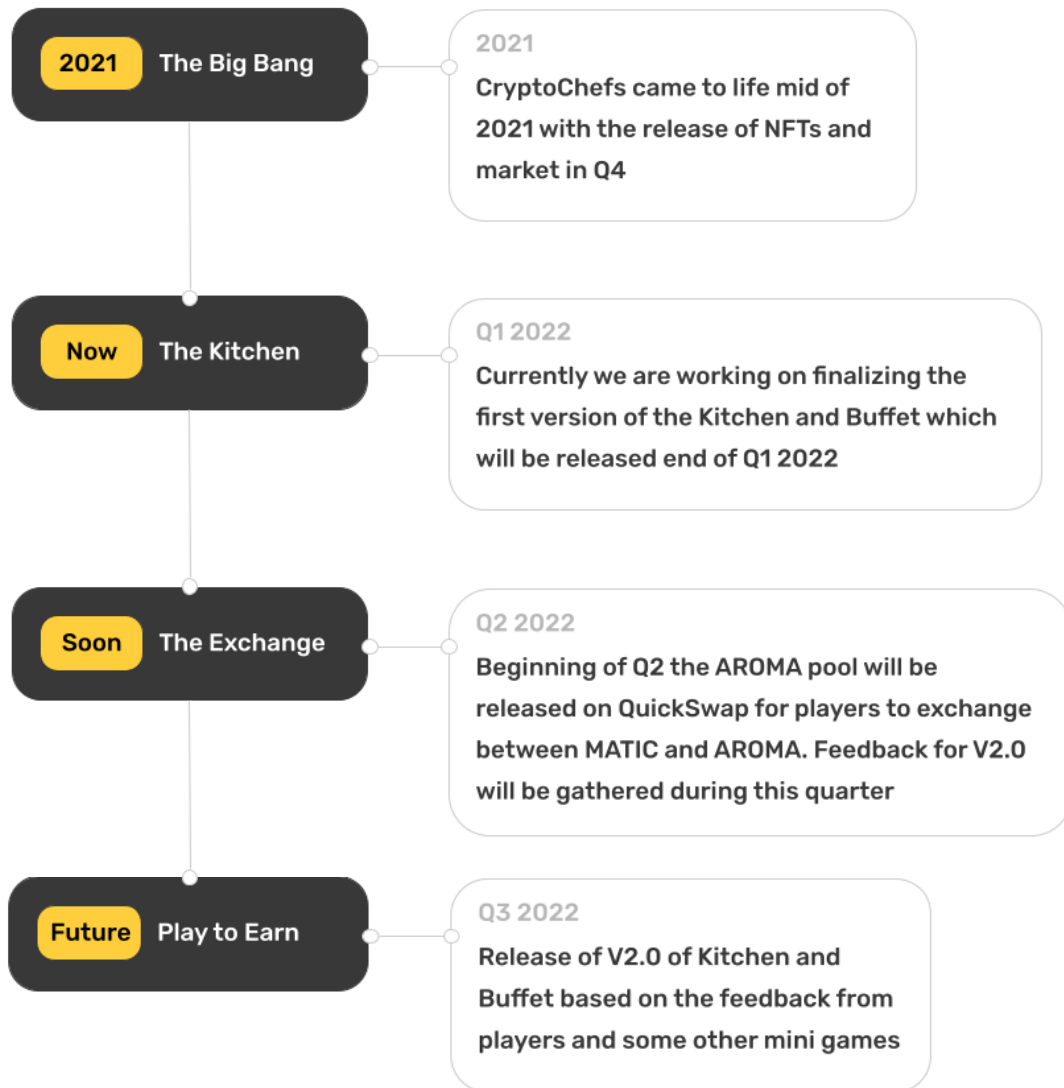
Figure 4: Token distribution

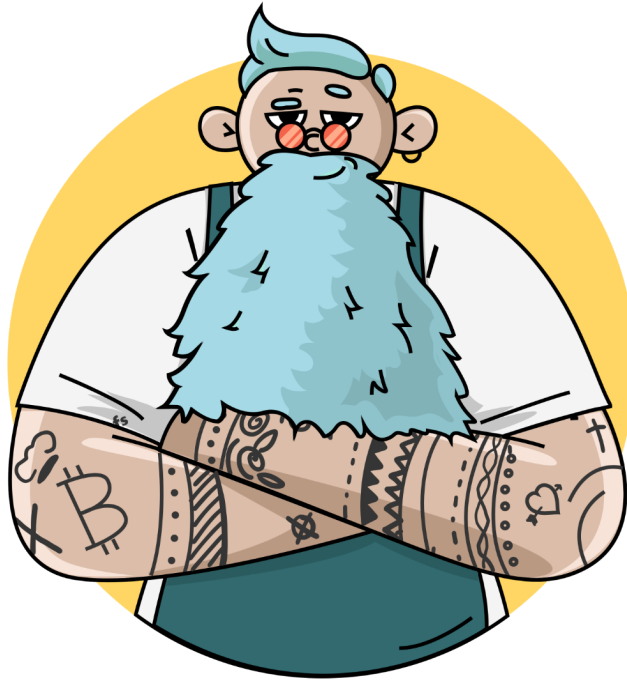
Usage	Amount	Details
Supply	150'000'000	The total supply of AROMA tokens
CryptoChefs Platform	90'000'000	This amount is reserved for the reward pools
NFT Sale Supply	37'000'000	These are offered on Quickswap or other exchanges
Team	15'000'000	3 months lock, 5% monthly release after the locking period is over
Ecosystem Growth	5'000'000	Used for incubation programs with external vendors to grow the project
Community Marketing	3'000'000	These tokens are used for marketing activities. 250'000 will be released immediately, and 5% of the remaining tokens will be released after the locking period is over

Table 4: Overview of the token supply

Mignardise

Roadmap





CryptoChefs



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