CRYPTORG

AUTOMATED TRADING
on cryptocurrency exchanges

cryptorg.net | WHITE PAPER

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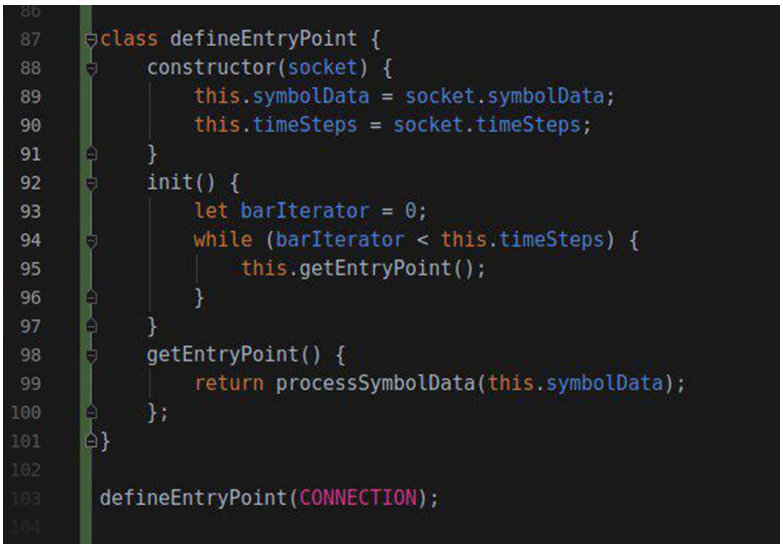
1. Algorithmic trading

1.1 Description of technology

Algorithmic trading is a purchase and sale transactions on exchanges with the help of specialized algorithms. On trading platforms such algorithms are called trading bots.



```
class defineEntryPoint {
    constructor(socket) {
        this.symbolData = socket.symbolData;
        this.timeSteps = socket.timeSteps;
    }
    init() {
        let barIterator = 0;
        while (barIterator < this.timeSteps) {
            this.getEntryPoint();
        }
    }
    getEntryPoint() {
        return processSymbolData(this.symbolData);
    };
}

defineEntryPoint(CONNECTION);
```

For algorithmic trading in the stock markets you have to buy special software, get permission from the exchanges and pay for historical data, where a trading strategy will be practiced. All this becomes a serious obstacle for ordinary investors. Unlike traditional markets, most cryptocurrency exchanges provide simple and open API for trading. The crypto market is so new that even strategies from textbooks on technical analysis, which have become classics, work here.

The tasks of our trading robots include the analysis of prices and operating on well-defined algorithms on cryptocurrency exchanges. Trading by robots is widely used in the markets and its part significantly exceeds the part of manual operations.

1.2 Advantages

The advantages of algorithmic trading with the help of trading bots over manual trading

No time to trade

Not everyone has the opportunity to spend a few hours a day trading. Trading bots solve this problem because they work according to a given algorithm for 24 hours a day. You can check the work of bots and change their settings in the morning and evening.

Psychology, money management

Most traders make mistakes due to violations of money management and psychological stress. Unlike humans, bots will never violate money management and will work according to a strictly defined strategy.

Determining the point of entry into the market

Using the strategy designer you can quickly choose different options for trading on the exchanges, configure the input on various popular indicators and oscillators as well as set trading price levels.

Quick response to market events

Trading bots react much faster to market impulses, unlike humans.

2. Service Cryptorg.net

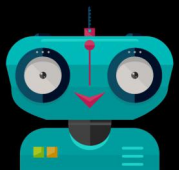
2.1 The goal

Cryptorg is designed to automate trading on various cryptocurrency exchanges and allows you to implement the strategies conceived by the trader as well as to automate routine processes arising during daily trading.

The service is a convenient interface for creating and configuring trading bots.

It supports 24 hours a day operation, configuration of various notifications including Telegram messenger, group chat and many other functions.

> The world is divided into two kinds of people, those who spend a great deal of time saving money, and those who spend a great deal of money saving time.
>
> Peter Cochrane



2.2 Service statistics

Cyptorg is one of the most popular cloud cryptocurrency services in the world in its segment. The official launch of the site took place in October 2017 and today has **19 000 registered participants**. The service grows harmoniously, without resorting to paid marketing. The main clients of the service are experienced traders, investors, market makers as well as newcomers to the cryptocurrency industry.

2018	trading volume	
	BTC	USD
January	1031	12,372,000
February	806	7,660,000
March	2119	17,000,000
April	9821	87,000,000
May	9751	78,000,000
June	6007	40,000,000
July	7843	58,000,000
August	4999	34,000,000
September	3781	25,000,000
October	3055	20,500,000
November	3862	14,600,000
December	3928	15,000,000
		409,132,000

2019	trading volume	
	BTC	USD
January	3768	14,300,000
February	4073	15,800,000
March	7206	30,000,000
April	5200	27,100,000
May	6400	46,080,000
		133,280,000

CRYPTORG

*7 cryptocurrency exchanges are connected to the service: **Binance, Bittrex, Bitfinex, Poloniex, Kucoin, HitBTC, AlienCloud** (April 2019). Trading volume produced by Cryptorg bots on the above exchanges is from **$10 to $ 100 million** per month.*

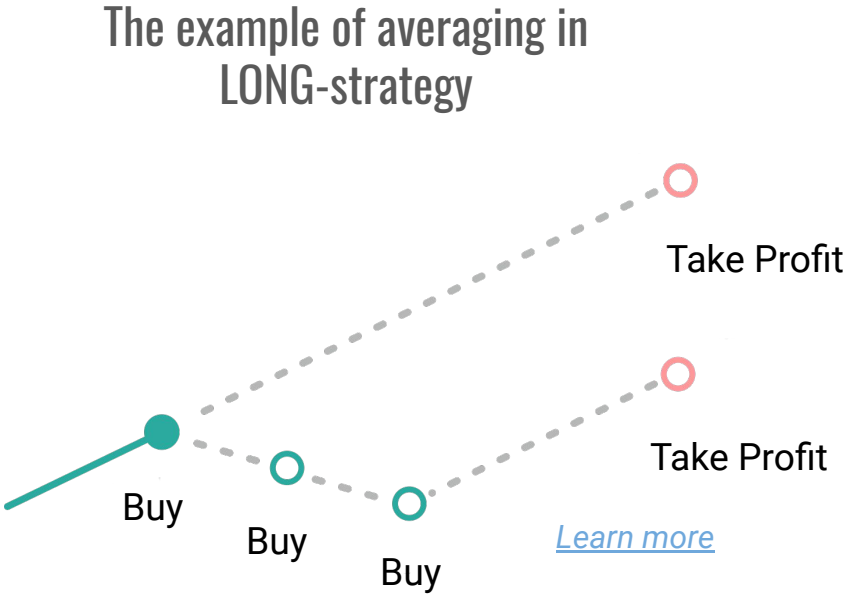
2.3 The operating principle of the bot

The operating principle of bots is based on the averaging method. This strategy allows you to earn even in a falling market, as in any case, a small price rebound up will occur and the transaction will be completed with a profit.

Averaging

Averaging is the addition of positions (orders) when trading against the current trend. That means additional buying coins (refilling) while the retention of the existing negative trades.

Thus, open positions shall be averaged, and the trader expects that there will be a kickback or correction of the price movement.

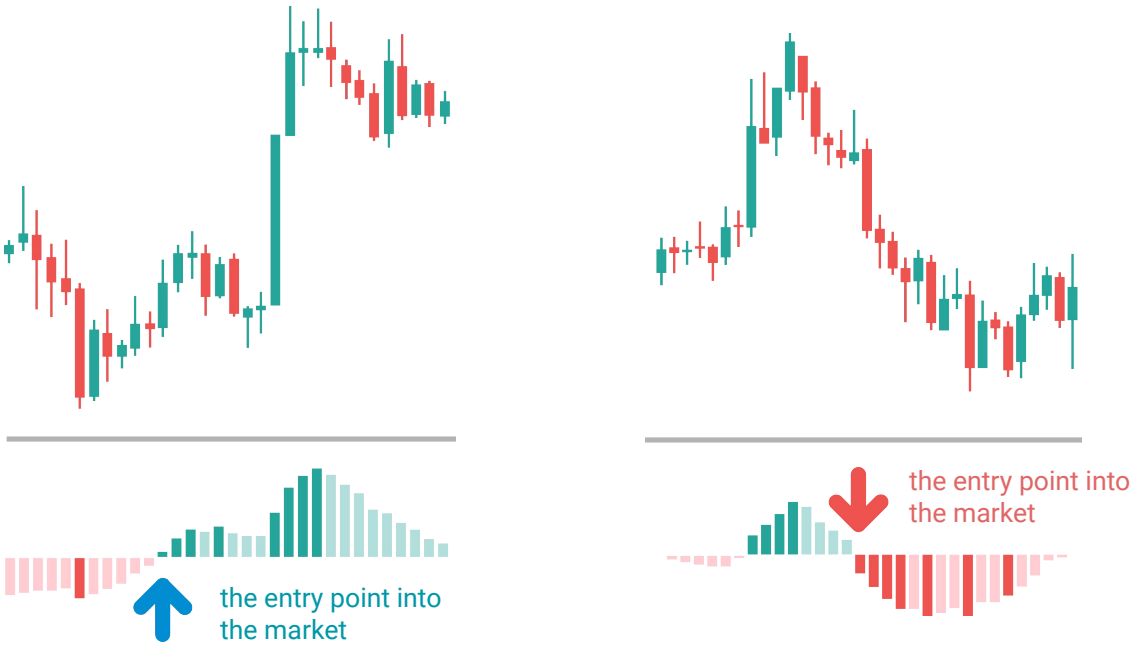


2.3 The operating principle of the bot

Intellectual approach

Ability to use built-in methods to determine the point of entry into the transaction. Bots make their own decision to enter the market based on technical analysis.

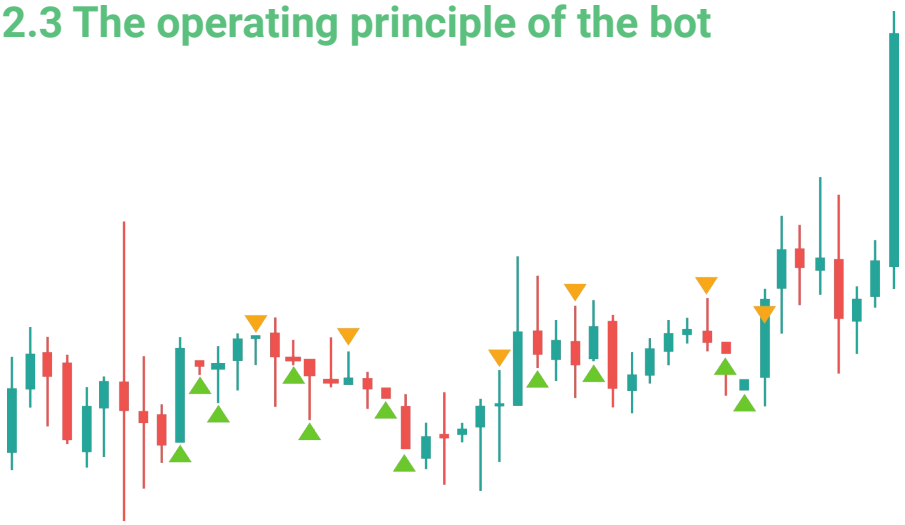
An example of a point of entry into the market by MACD histogram



Signal BUY
the histogram MACD changes from negative to positive

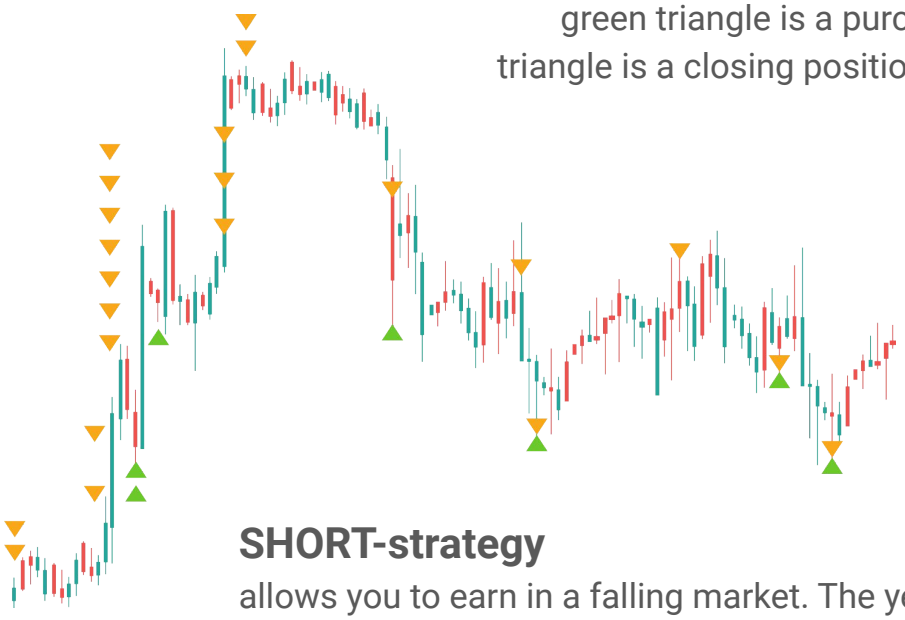
Signal SELL
the histogram MACD changes from positive to negative

2.3 The operating principle of the bot



LONG-strategy

allows you to earn in a growing market. The green triangle is a purchase; the yellow triangle is a closing position on Take profit.



SHORT-strategy

allows you to earn in a falling market. The yellow triangle is sales, the green triangle is a closing position profit fixing.

2.4 Additional features

The possibility of multiple bots on a single pair

The service provides a unique opportunity to simultaneously enable multiple bots for one pair, and it can be bots with both LONG-strategy, and SHORT-strategy. The main rule is - both coins in the trading pair should be enough on your balance to execute all orders.

Limited number of transactions

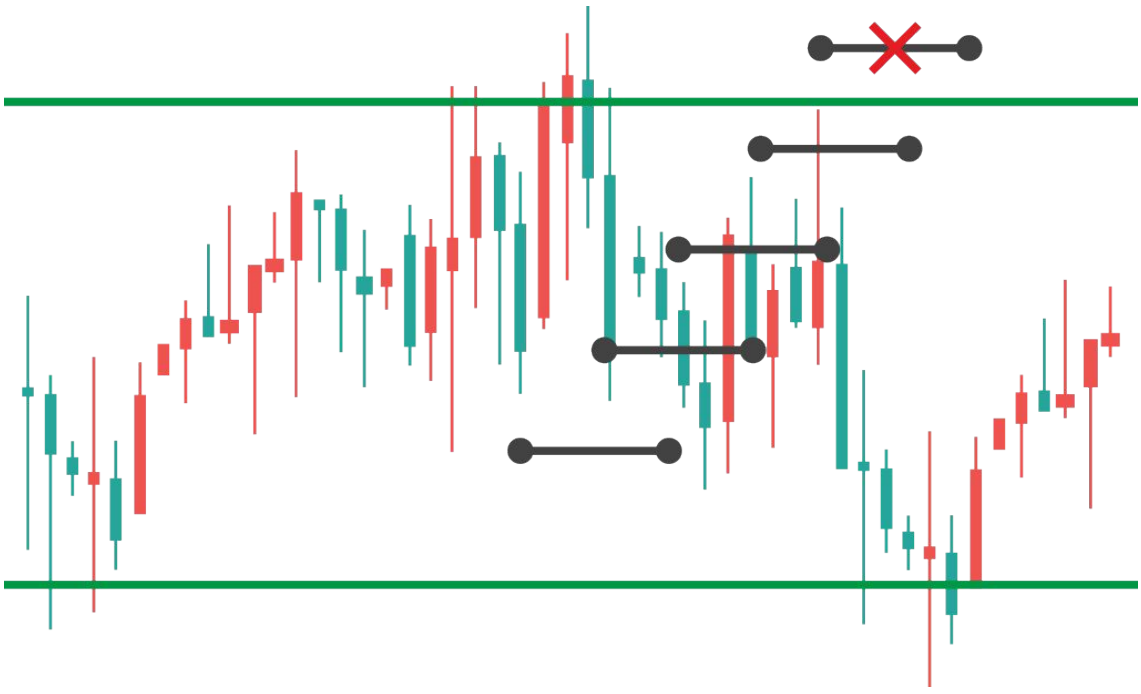
While working in a cyclic mode, when there is a rapid change in the price of the trading pair, the bot starts a new deal constantly after the end of the working cycle on Take Profit. We never know when the impulse movement will end and the price will start to turn around. Using the option to limit the number of work cycles you can set any value from 1 to 200, after which the bot will turn off.

Using this option on the fast movement of the market in just a few minutes, you can complete all cycles and exit with a profit before a potential price dump.

2.4 Additional features

Price levels

In trading it is especially important to work with the price. The price chart can move for a long time in a certain range or break through different levels. All this affects the course of trading pairs. The use of price restrictions allows you to avoid unwanted starts of transactions when you are leaving the price channel.



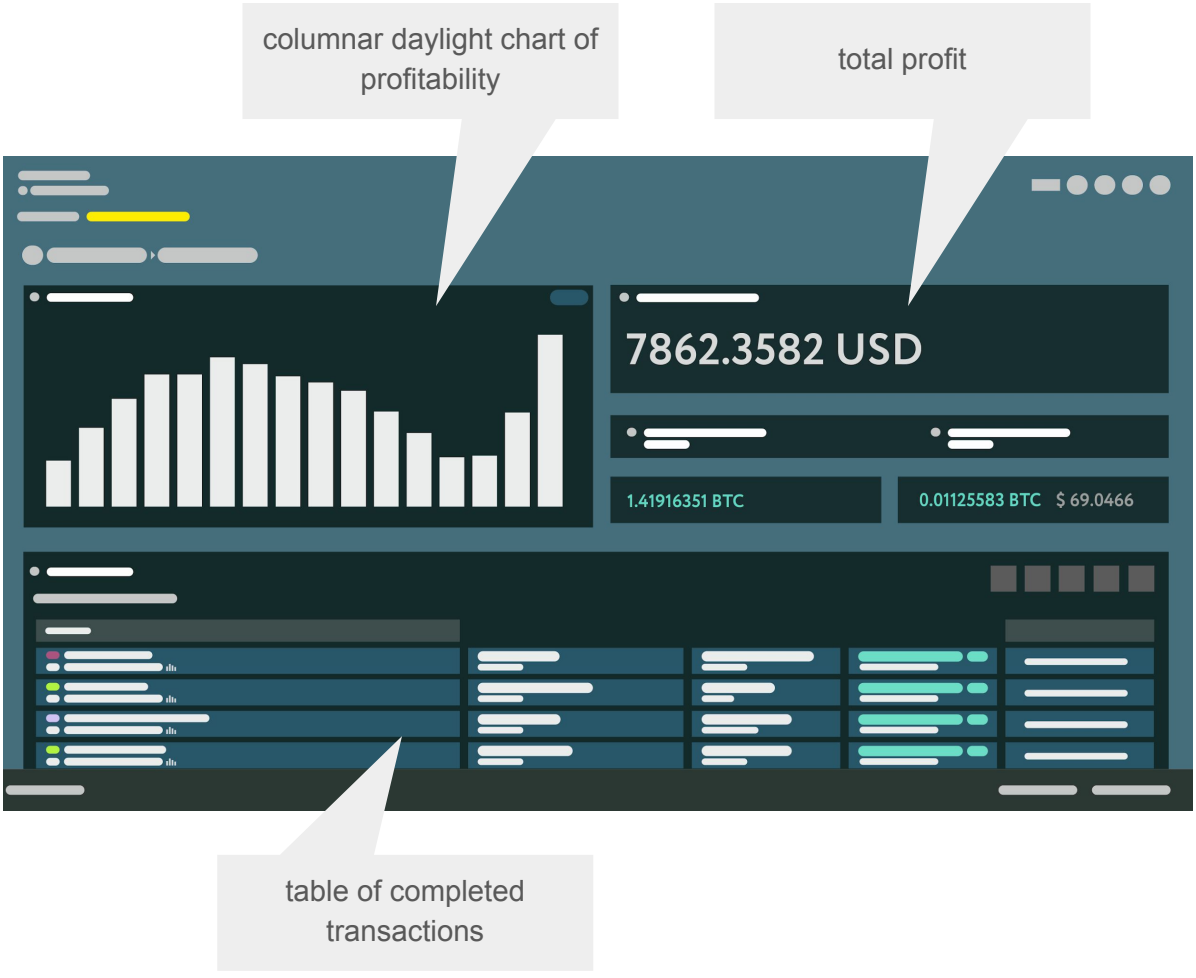
Martingale

Martingale strategy allows you to bring a deal to profit quickly with minor price rollbacks, in contrast to the usual mode of conducting a deal. The main element of this strategy is that the volume of each subsequent safety order increases in accordance with a given coefficient.

The using of martingale allows you to shift the Take Profit order slightly lower when each subsequent order is triggered than when orders with a static volume are triggered.

2.5 Analytics

The results of completed transactions are displayed here. You can use different filters to sort the results. The filter on access points, the filter on bots, and the filter on date are among them.



2.6 Bots Statistics

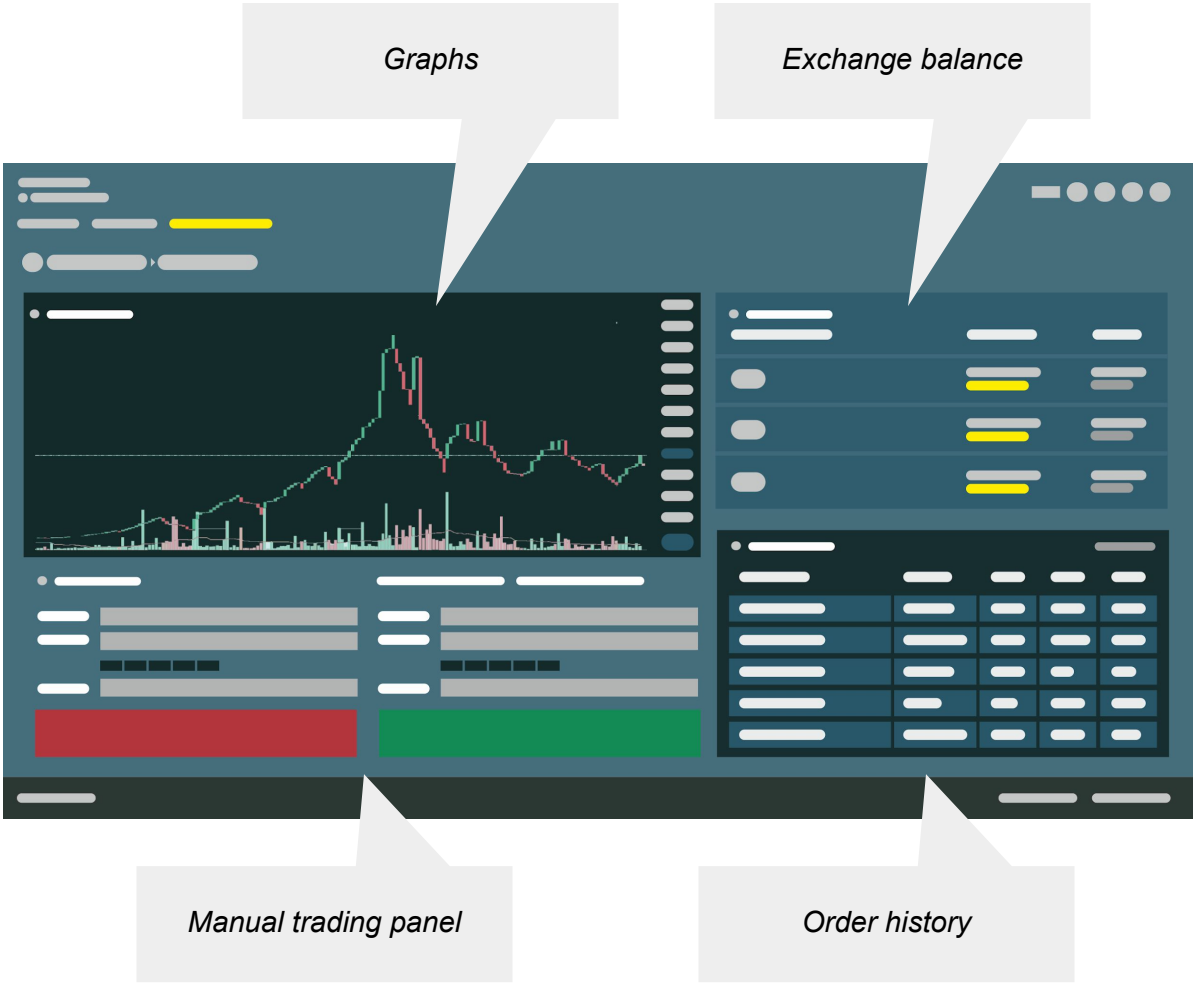
The "Statistics" section collects data on all successfully completed transactions for different periods of time on different exchanges. The presented data will be especially useful for beginners in trading, who find it difficult to choose trading pairs.

Collective mind

Statistics are very important for making decisions in trading, that is why the platform collects data on the most successful transactions for different time intervals at a particular time. In just a few minutes you can select the most successful trading pairs and set up bots. It provides a foundation for the copying of the settings of the bot. This is exactly the case when the community manages the process.

2.7 Trading terminal

The trading terminal allows you to trade on various exchanges through a single interface. There is no need to go to the exchange, everything can be done directly from the platform Cryptorg.



3. Trade-to-Mine

3.1 Technology description

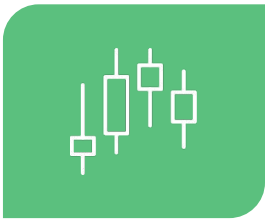
Trade-to-mine is a receiving model of CTG tokens by conducting transactions by bots on the platform Cryptorg.

Mining by bots

To get more income you need to make as many trade transactions as possible

PoS

Each account or wallet that owns more than 100 000 CTG receives part of the profit from mining



Trading

Trading of CTG tokens on various cryptocurrency exchanges

Marketplace

Ability to buy digital products and subscriptions from various financial companies

3. Trade-to-Mine

Trade-to-Mine. This consensus does not require mining in the classic view (GPU farm and ASIC-like devices). To get more income you need to make as many trades with the help of bots as possible.

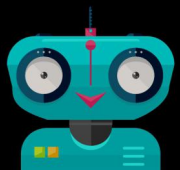
The effectiveness of one successful transaction depends on such values as:

- *volume of transactions*
- *the current tariff*
- *number of tokens on account balance*
- *number of trades in the last 24 hours on the platform*

Determination of the effectiveness of the transaction

Trade weight = V(btc) * T(k) / (Deals(day) * 0.0001)
+ (Ct / Deals(day) * 0.1) * Pc

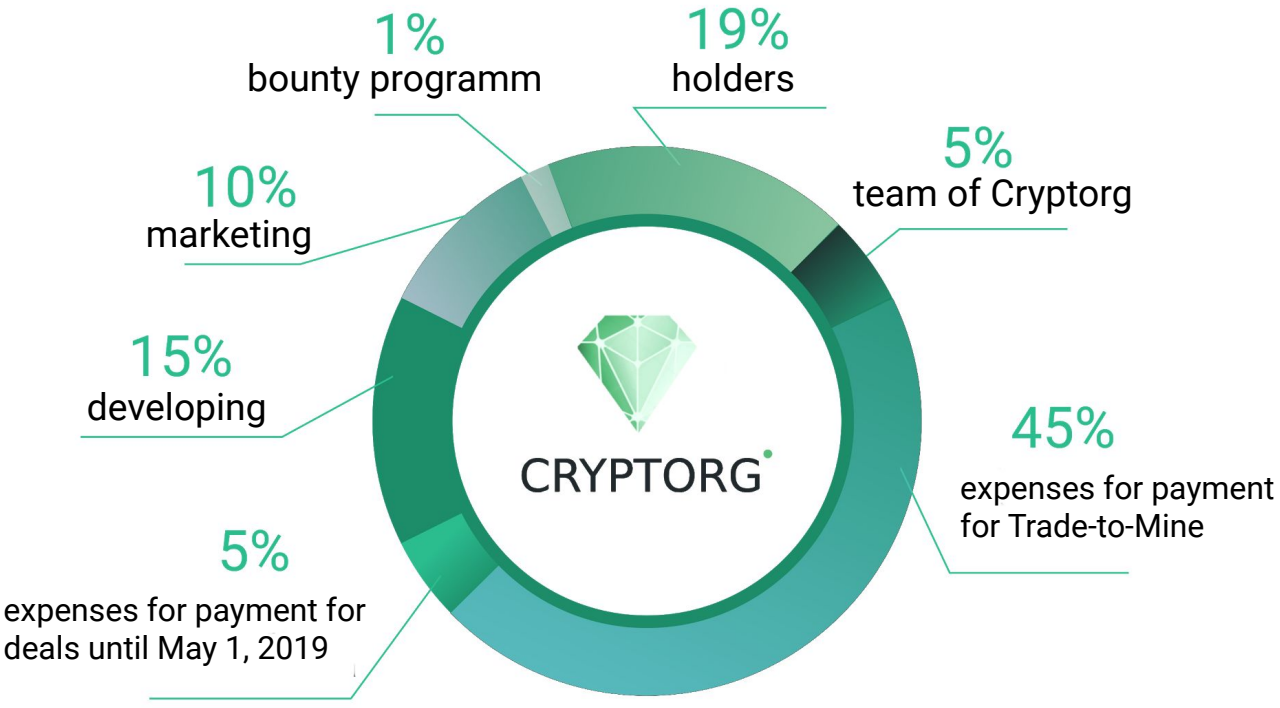
- **V(btc)** - transaction volume in BTC
- **T(k)** - coefficient of the tariff (trial 0.1, initial 0.5, pro 0.7, business 0.8, 0.9 voodo)
- **Deals(day)** - the number of deals for the last day on the platform
- **Ct(count of token)** - the number of tokens on the account balance
- **Pc(coefficient)** - 2 for pairs with CTG token, 1 — for all other pairs



3.2 The distribution of tokens

As for rewards in Trade-to-Mine technology, Cryptorg released its own token ERC20 in Ethereum

- Name: ERC20 Cryptorg Token (CTG)
- Etherscan link: link
- The total number of tokens: 100 000 000 CTG



3.3 The distribution of awards

The platform generates a block containing a strictly fixed number of tokens once a day. Tokens from the blocks are distributed among traders (depending on the effectiveness of their transactions), as well as between holders (wallets or accounts that have more than 100 thousand CTG tokens on the account). Every 120 days the number of generated coins will first increase and then decrease. This approach will ensure stable financial growth for users and ensures that they will benefit from mining.

Table of distribution of awards

Period	Reward per day	Miners 70 %	Holders 30 %	Total CTG
1-120	25,000	17,500	7,500	3,000,000
121-240	33,333	23,333	10,000	4,000,000
241-360	41,666	29,166	12,500	5,000,000
361-480	50,000	35,000	15,000	6,000,000
481-600	58,333	40,833	17,500	7,000,000
601-720	50,000	35,000	15,000	6,000,000
721-840	41,666	29,166	12,500	5,000,000
841-960	33,333	23,333	10,000	4,000,000
961-1080	25,000	17,500	7,500	3,000,000
1081-1200	16,666	11,666	5,000	2,000,000

Summary: 45 000 000 CTG

3.4 Holders

Each account or wallet that holds more than 100 000 tokens, receives a portion of the profits from mining (a proportional part of 30 % of the daily reward).

Thus, the most profitable option is to keep tokens on Cryptorg and trade bots at the same time. The weight of transactions will be as high as possible (Look at formula 5.1).

This allows you to get the maximum profit from both trade mining and holding tokens on the account. Users who store tokens on the platform are rewarded daily. Transfers to wallets in blockchain - weekly.

3.5 Token CTG demand

CTG

You can hold CTG tokens on Ethereum-wallet and on the account balance of Cryptorg. If tokens are on Cryptorg, they participate in the accrual of additional reward at the time of completion of the deal by the bot.

- Trading on exchanges. In the 2nd quarter of 2019 we plan listing on 2-3 exchanges.
- Payment of tariffs on Cryptorg.net with an additional benefit.
- Marketplace on Cryptorg. Ability to buy digital products and subscriptions from various financial companies.
- Payment of tariffs for subsidiary projects of Cryptorg with margin trading.
- The introduction of the token as the main unit of account for copy trading on Cryptorg and subsidiary projects.
- Payment of tariffs on Tradingbeep.com with an additional benefit.

4. Roadmap

2017

September 2017

Launch web-site Cryptorg.net

Account settings, management of bots and deals, charts, quotations.

October 2017

Connection of Telegram messenger to the service.

The opportunity to receive notification of bots' actions using the messenger Telegram.

October 2017

The connection of the Bittrex exchange

Setting up trading algorithms to work on the Bittrex exchange.

November 2017

Tariff plans

The introduction of tariff plans for users, setting up automated payment.

November 2017

Bitfinex Integration

The connection of Bitfinex exchange, setting up import of quotations and data for charts.

December 2017

"Statistics" section

Data on the most popular trading pairs based on the results of trading bots.

4. Roadmap

2018

January 2018

Optimizing the frontend part of Cryptorg.net

UI improvement, day/night mode.

February 2018

Binance exchange

The connection of the exchange and adaptation of bots for automated trading on Binance. Setting up import of quotations and data for charts.

February 2018

Referral program

The introduction of the referral program to attract new users.

March 2018

Optimization of trading strategies

The change in the transaction process of bots. Improvement of the system of calculating the profit

Section "Analytics"

Advanced tools for calculating the profit and statistical slices for arbitrary periods.

May 2018

Short-strategy

The opportunity of trading in pairs to lower the rate.

4. Roadmap

2018

June 2018

Kucoin Exchange

The connection of the exchange and adaptation of bots for automated trading on Kucoin.

July 2018

Improvement of the frontend part

The work on the user's part of the site, instant notifications, connection of tools for technical analysis.

August 2018

API access

The creation of API access for managing trading bots and other services.

October 2018

Connect the HitBTC exchange

The connection of the exchange and adaptation of bots for automated trading on HitBTC.

December 2018

Manual trading

New opportunities for manual trading on the stock exchanges through Cryptorg.

4. Roadmap

2019

February 2019

Signals and strategies

Adding new signals and strategies for bots.

March 2019

Optimization of trading strategies

The change in the transaction process of bots. Improvement of the profit calculation system.

March 2019

The integration of the Korean exchange UpBit

The connection of the exchange UpBit, setting up import of quotations and data for plotting.

March 2019

The integration of the AlienCloud exchange

The connection of the exchange and adaptation of bots for automated trading on AlienCloud, setting up import of quotations and data for charts.

April 2019

Cryptorg token release

The issuance of the token on the Ethereum blockchain. Trading mining.

May 2019

The integration of the Bitmex exchange. Margin trading

The connection of the Bitmex, setting up import of quotations and data for plotting. The connection of possibilities of margin trading.

4. Roadmap

May 2019

BTC-Alpha Connection

The connection of the exchange and adaptation of bots for automatic trading on Btc-Alpha.

June 2019

Okex Connection

The connection of the exchange and adaptation of bots for automatic trading on Okex.

June 2019

Rating of traders. Copy-trading.

Creating a rating of traders with possibility of copy-trading.

June 2019

CTG Token listing

Listing of ERC-20 Cryptorg token on cryptocurrency exchanges.

July 2019

Marketplace

Opening of a digital goods store and subscriptions inside the cabinet on Cryptorg with the ability to purchase goods for CTG tokens.

August 2019

Huobi Global Connection

Setting of trading strategies on the Huobi Global exchange.

September 2019

Franchising

Assistance in creating a business for algorithmic trading.

5. About the company

Requisites

CRYPTORG

Cryptorg OÜ (registry code 14720778)

Adress: Harju maakond, Tallinn, Lasnamäe linnaosa, Majaka tn 26, 11412

E-mail: support@cryptorg.net

6. Links

Cryptorg - https://cryptorg.net

White Paper https://cryptorg.net/cryptorg_wp_eng_short.pdf

Roadmap https://cryptorg.net/en/roadmap

Video about Cryptorg https://www.youtube.com/watch?v=uMgKkk-YtYU

Github https://github.com/cryptorg-io

Telegram chat RUS https://telegram.me/cryptorg_rus

Telegram chat ENG https://telegram.me/cryptorg_eng

Twitter https://twitter.com/Cryptorg_trade

Discord https://discordapp.com/invite/qhhZ65K

Media

THE COINTELEGRAPH

https://cointelegraph.com/press-releases/cryptorg-announces-of-trade-to-mine-mechanism-via-trading-bots

https://cointelegraph.com/news/trading-bots-are-they-a-force-for-good