

# TRADING BOT

v3

Lux Ant Digital, S.L.  
21/08/2018



## PRESENTATION

Our new Bot is the result of all the accumulated work we have been doing over the last year and especially over the last eight months. During this period, the cryptocurrency market has undergone enormous changes, so much so that they are not comparable to any of the scenarios that had occurred until then.

We have had to deal with a market which, last December, grew at a dizzying rate to create a small bubble and which, irremediably, has been deflating for a few months until it has corrected its prices and reached the values we had before.

Before the bubble, the markets grew almost continuously and when there were falls they were never so pronounced. Nothing to do with current events.

This scenario has forced us to create a much more intelligent robot, which analyzes all the parameters and only performs operations at very specific moments, responding to advantageous situations previously identified. It has been necessary to perform many simulations to find the algorithms that, even in bearish markets, allow us to make a profit.

In addition, the bot can work practically in all situations:

- on any Exchange (that allows it via API)
- on any market, predefined or not
- with Base currencies, looking for profit in bullish markets
- with Quote currencies, looking for profit in bearish markets

# FUNCTIONING

## Initial Tasks

- Select the Exchanges we consider for the bot to operate.
- Split the initial capital according to the type of investor; risk aversion, amount to invest, preferences...
- Distribute the capital proportionally among the different Exchanges.

## Bot

- It is connected permanently and simultaneously to the Exchanges indicated, monitoring the price of the Markets.
- It operates with all possible markets according to previously established parameters, thus complying with the minimums considered.
- You work with the base currencies according to Exchange, USDT, ETH and BTC in Bittrex, for example. And, when required, with quote currencies.
- It works freely according to certain parameters and strategies. Its configuration is very flexible, allowing you to focus the robot on a few preset markets or use all those available in the used Exchange.
- The profit obtained is the difference in price minus the commissions retained by the Exchanges for both transactions.

## Maintenance tasks

- The bot works automatically and warns us if there are errors or detects any inappropriate behavior. Even so, there is human supervision and continuous analysis of their behaviour and results.
- Supporting several Exchanges means keeping up to date with the constant changes they make in their respective APIs and making corrections and improvements on an ongoing basis.

# CHARACTERISTICS

## Market. Trend and volume

The robot analyzes in real time the data that the market provides us and with them determines the market trend for various periods of time. It also calculates the total volume of transactions for these periods. Based on the results of the calculations and the defined configuration parameters, the bot not only decides when to perform the operation but also the volume of the operation. As a result, the markets with the largest volume and the clearest upward trends are trading at the highest volume.

As you can see, the trading strategy is complex, the robot tries to predict the immediate future and make the trades short, in the shortest possible time.

## Exchanges

We currently support about 20 Exchanges. Of course, the best known and most reliable. Our intention is to add more and more and thus expand the Bot's capacity to find opportunities in more markets. Always attentive to the safety and confidence that these Exchanges transmit.

## Safety against closing of Exchanges

When an Exchange is hacked or closed suddenly. The funds are lost, just like that. Still, this robot brings a certain level of confidence. Thanks to its diversification, by working with several Exchanges at the same time and having the funds distributed among them, we would never lose more than a percentage of the total.

In order to anticipate this problem and respond as fairly and effectively as possible, we have defined a protocol of action, which is detailed in the contract, and which will allow us to act and correct the problem if we are faced with such a situation.

## PROFITABILITY OF OPERATIONS

From the results obtained this last month we can extrapolate them and for each base currency, the following benefits have been obtained:

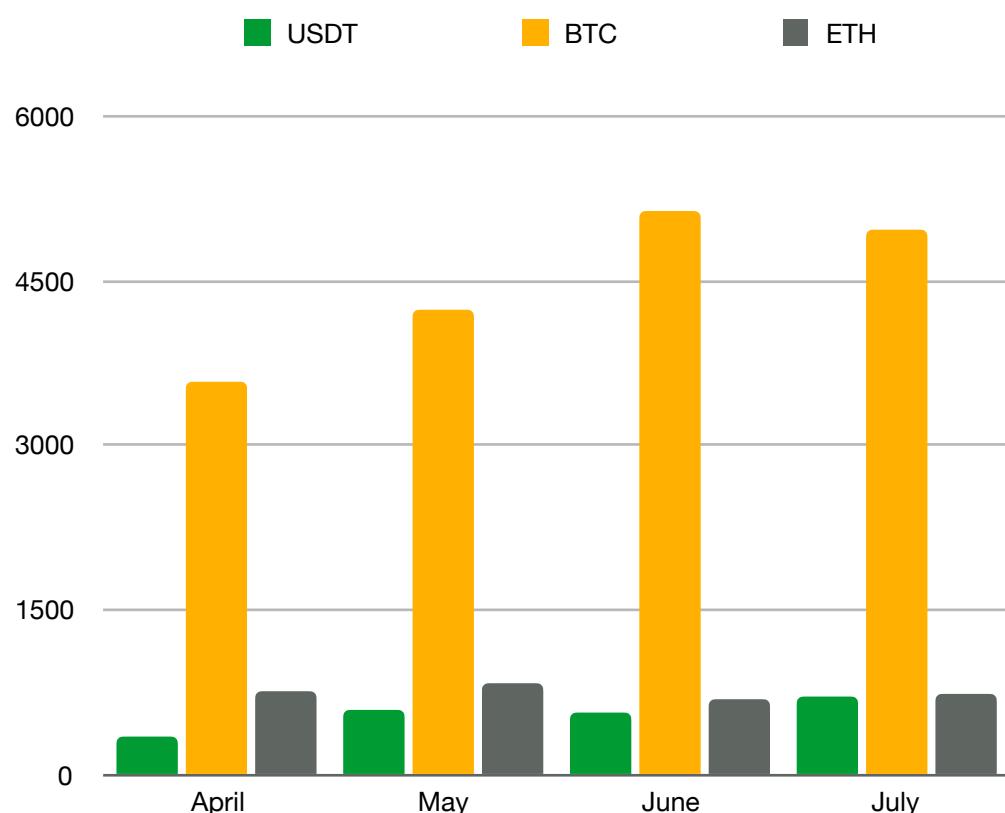
Mean Value	Day	Orders	USDT			BTC			ETH		
			Orders	Profit	%	Orders	Profit	%	Orders	Profit	%
<b>Day</b>	30	23.66	3.34	27.58	0.12	16.93	0.029	0.33	3.38	0.1	0.082
<b>Month</b>	30	709.66	100.34	827.58	3.6	507.93	0.88	9.9	101.38	2.99	2.46

*Total profit per cryptocurrency in € / July*

USDT / 20,000 €	BTC / 50,000 €	ETH / 30,000 €
720 €	4,950 €	738 €

\* Total initial capital: 100,000 €

\* Final profit: 6,408 € / July



We must bear in mind that the month during which the bot has operated (May 2018) the market has gone from a volume of about \$438,000,000,000,000 to, currently, about \$211,251,571,506, which translates into a general drop in all cryptocurrencies. Even so, the robot has managed to generate profit, so we affirm that even with a downward trend it is capable of generating performance.

The market will recover sooner or later, so the expected return will be much higher than currently calculated on the basis of actual results.

## REQUIREMENTS

Basically two: capital and stability, the more, the better.

The more capital, the more Exchanges we can support without losing efficiency. The more Exchanges, the more opportunities to earn and the greater the security of having the better distributed capital.

Although the robot is able to move funds automatically (in the Exchanges that allow it) we must remember that we will pay a commission every time we make a Withdraw. In addition, over a period of time, the money will be blocked and unproductive until it reaches the destination Exchange. Therefore, the fewer times we have to move capital, the better, the more efficient we will be.

# RISKS

## INPUTABLES

### Software security

The Bot will obviously be able to operate with all Exchanges in an unlimited way, this means that the computer where the Bot is running will contain the access keys to the capital and, therefore, may be at risk of hacker attacks.

It is our responsibility to operate the Bot as safely as possible. This includes a secure execution environment, from the computer running the software to the internal network that protects it.

With all the measures taken we can ensure 99.9% security. Even so, should we suffer any attack, it will be our responsibility to go to the authorities and denounce and demonstrate the attack, the perpetrator of which would be responsible for any losses that may occur.

## NO INPUTABLES

### Close of the Exchange

As has already been demonstrated, no one can predict an unexpected shutdown by an Exchange.

Fortunately, thanks to the diversification implicit in our Bot, we would lose only a percentage of the capital in the event of closure.

Similarly, in the event of such an event, we basically envisage two measures:

- Be attentive to the case and act in the best possible way. If it is a hack, as in the case of Bitfinex, we may be able to recover some, if not all, of the funds over time.
- Block 50% of future profits until lost capital is restored.

## Currency devaluation

The client decides with which cryptocurrencies he wishes to operate. Either Base currencies, such as USDT, BTC or ETH, or any other quote currency.

You have to be very careful with your chosen currencies to avoid those that devalue more easily. Especially if we're on the short side. Which we don't recommend at all, that's what the bot is for.

The Bot has a built-in "reverse operation" mode, it allows Base currencies to behave like quote currencies as soon as the market is detected to be clearly falling, thus minimizing devaluations.

Even so, to maximize profits, it is much better to make a medium or long-term investment because a currency that devalues offers benefits from trading at that time and will certainly offer benefits when it appreciates again.

## INVESTMENT PACKAGES

As for our operating model, we behave in a similar way to an investment fund, but only in cryptocurrencies. Lux Ant Digital is not an investment fund as such, something that the laws of this country make difficult. Therefore we can only accept cryptocurrencies in our fund, no traditional or FIAT currency.

Even so, of course, Lux Ant Digital offers a simple and reliable service of buying and selling cryptocurrencies which facilitates the process to all those who want to invest in the fund.

By means of a test and an explanatory document on what type of investment the interested party is going to make, three investment packages are established that the Lux Ant Digital team assigns to the investor according to their characteristics: risk aversion, experience in the investment sector and experience in the kryptonite sector, among others.

