



Aula 6

Softwares de apoio

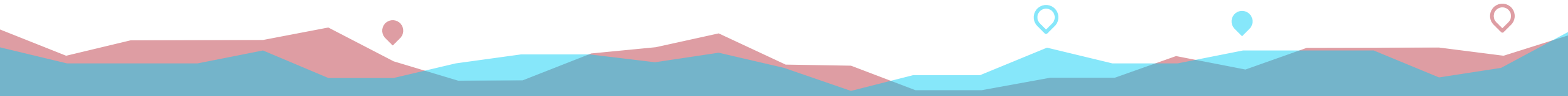
Introdução à automação (bots)



Softwares de apoio

14 de setembro

- China vai regulamentar exchanges
- Fechamento exchanges(BTCCChina)
- Nessa semana queda de 33%

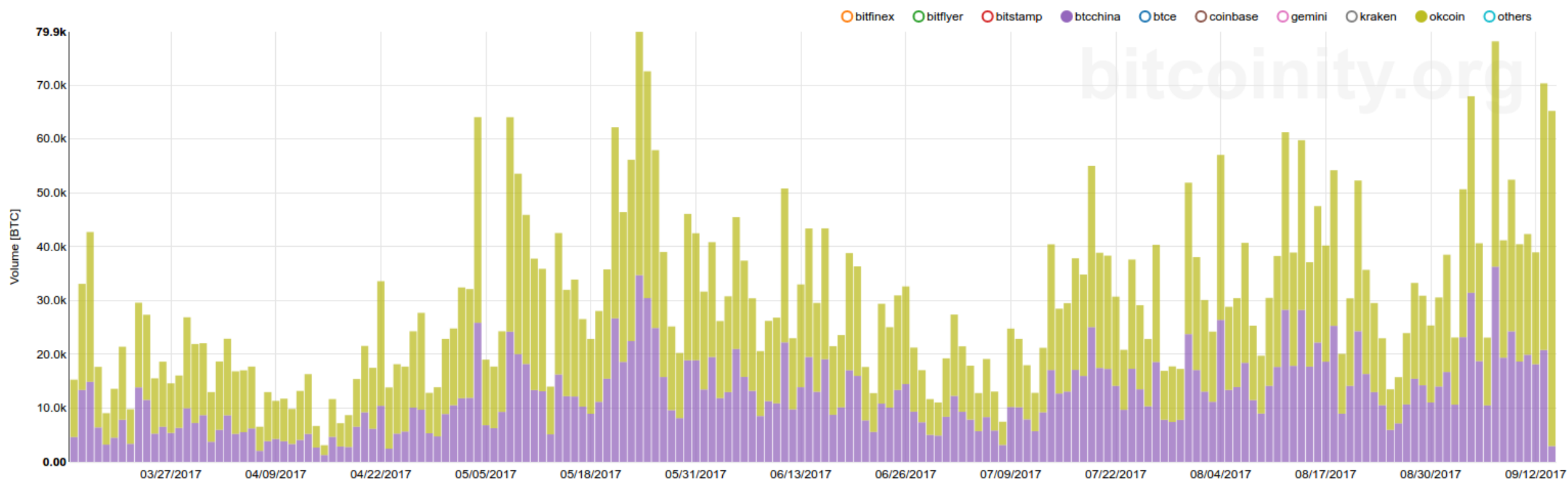


Preço

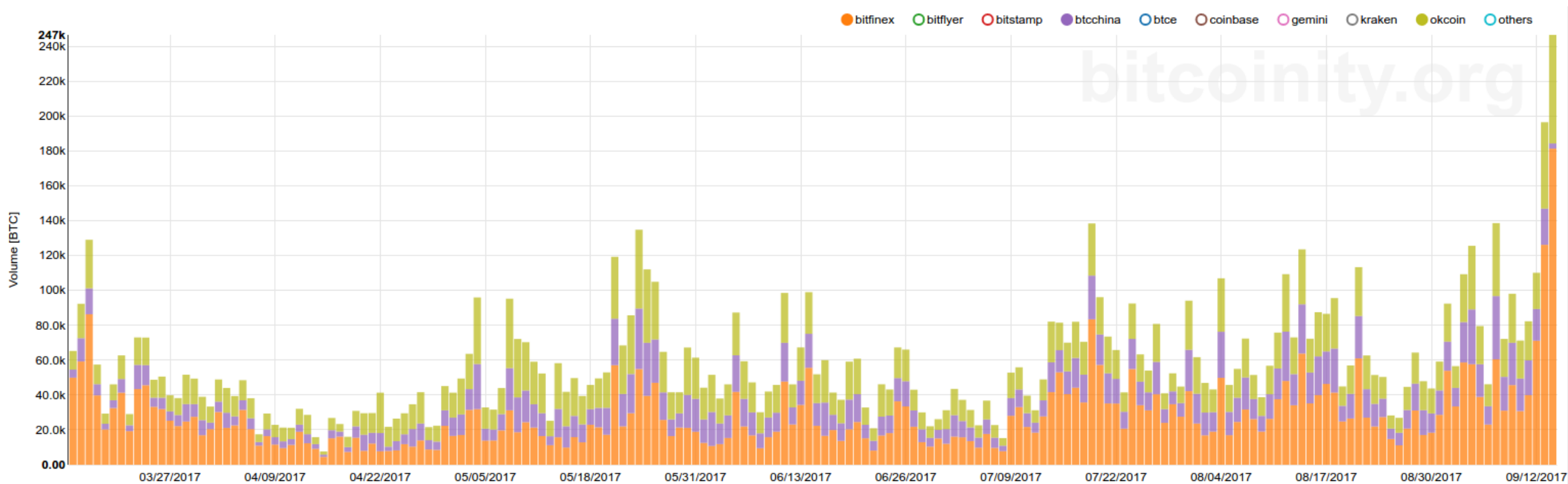
Bitcoin / Dollar, D, BITFINEX
Vol (20)



Volume



Volume



Preço depois

Bitcoin / Dollar, D, BITFINEX

Vol (20)



Softwares de apoio



Softwares de Apoio - Sites

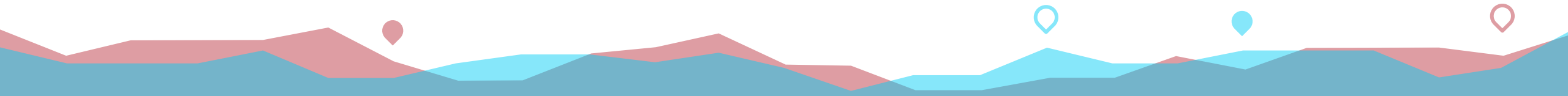
Dados sobre as criptomoedas

- coin.dance
- cryptocompare.com
- coinmarketcap.com



Softwares de Apoio - Sites

- data.bitcoinity.org
- cryptocoincharts.info
- cryptocurrencychart.com



Softwares de Apoio - Sites

Análise Técnica

- tradingview.com
- cryptowat.ch

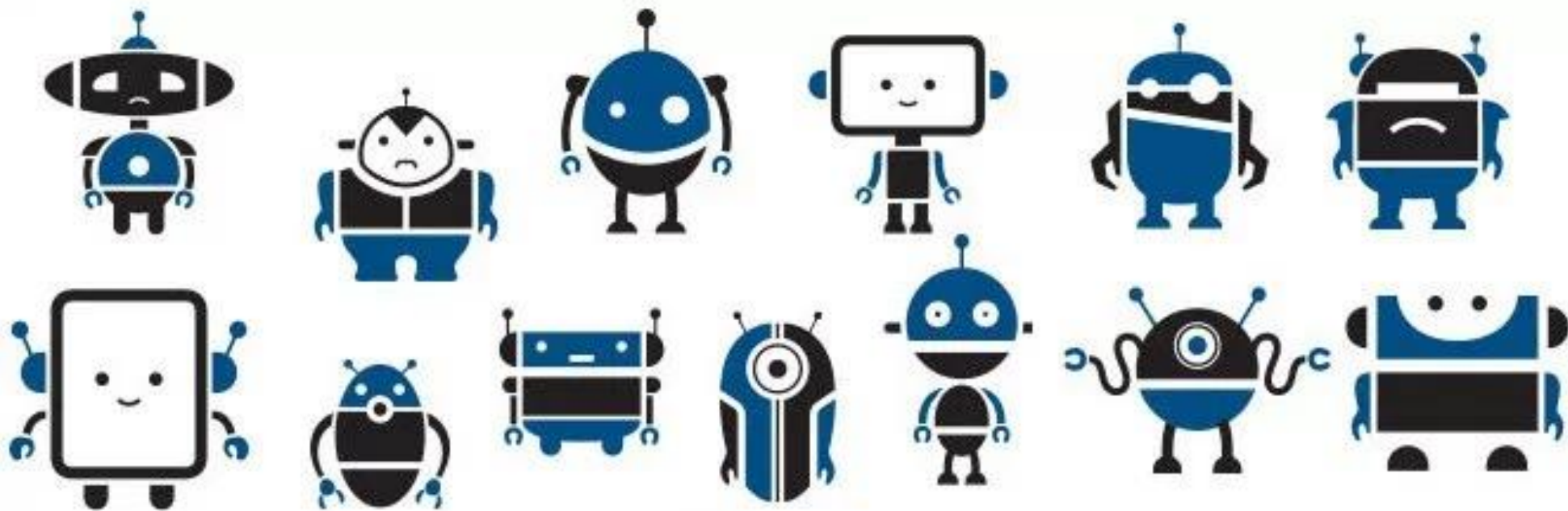




Introdução à automação (bots)

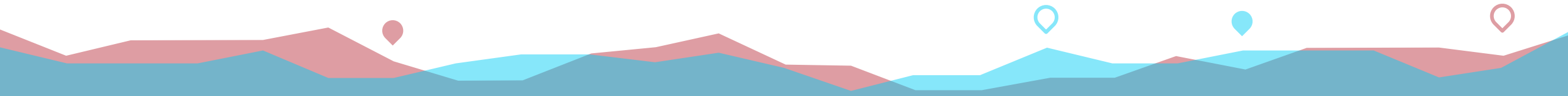
O que são bots?

Seu investimento no piloto automático



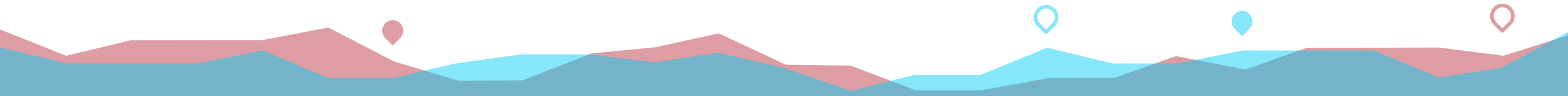
Vantagens dos Bots

- Sem emoções
- Latência
- Processamento



Bots para criptomoedas

- 24 horas por dia 7 dias por semana
- APIs e tecnologia
- Custos transacionais
- Arbitragem



Exemplos de estratégias

Bitcoin / Dollar, D, BITFINEX

MA (12, close)

MA (26, close)



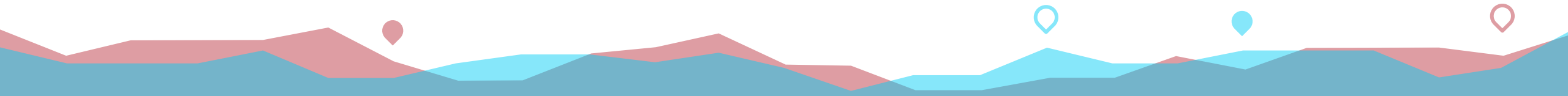
Exemplos de estratégias

Bitcoin / Dollar, D, BITFINEX

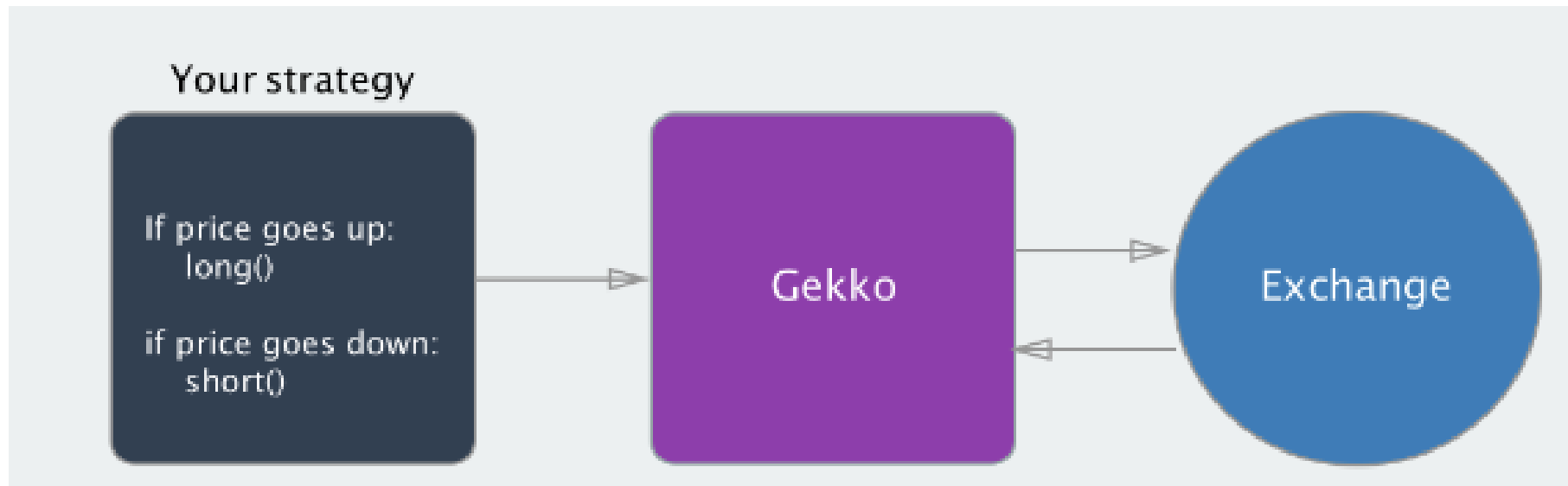


Como usar bots?

- API corretora
- Frameworks
 - Interface
 - Código

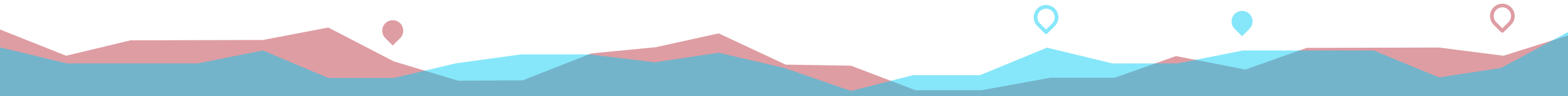


Frameworks



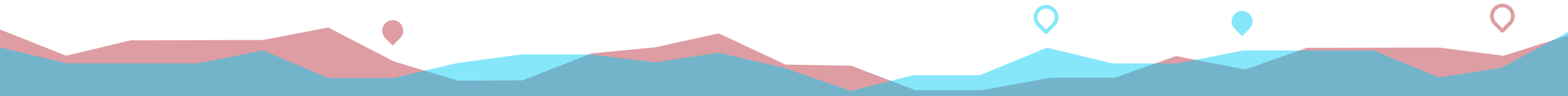
Principais Frameworks

- Haabot (www.haasonline.com)
- Cryptotrader (cryptotrader.org)
- Zenbot (github.com/carlos8f/zenbot)
- Gekko (github.com/askmike/gekko)



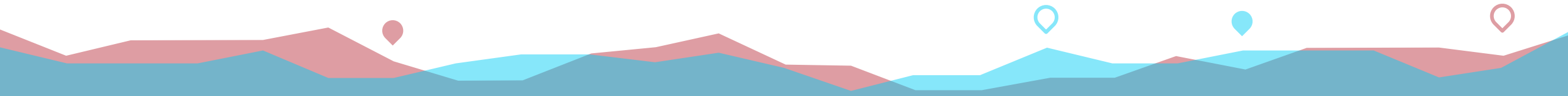
Funcionalidades

- Backtesting
- "Paper" trading



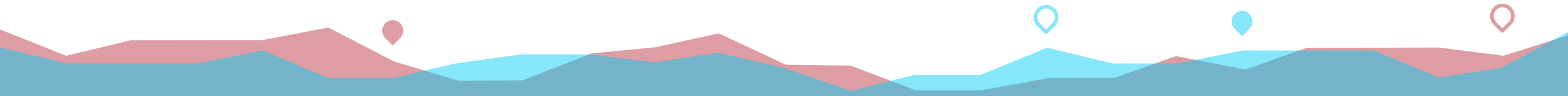
Link Corretora

- API key
- Permissões
- API key secret



Haasbot

- Facilidade de uso
- Estratégias clássicas
- Travas de segurança
- Preço(a partir de 0.06B/3month)
- Principais corretoras(Poloniex, Bitfinex, Bittrex...)



Haasbot

Your local trade server

The local trade server is a small application that runs in the background and trades for you and keeps your trade platform updated

Your personal trade platform

This platform will give you HTML based interface.

With this interface you can see how the market is doing, you can edit your trade bots and you can place orders directly at the exchange website

Your trade bot

Safeties

With safeties, you can make sure your coins remain safe in case of a big price drop

Indicators

Setup your own trading strategy using technical market indicators and crypto adjusted market indicators

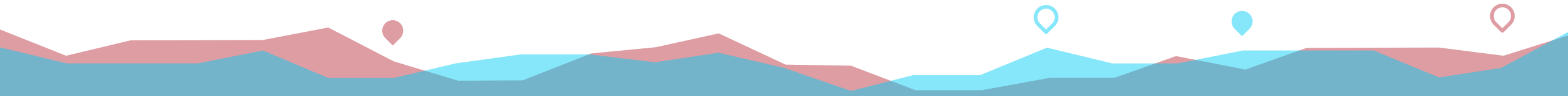
Insurance

Insurance for your trades. These ensure that you will overcome the fee costs or other special actions and/or conditions

Trade signal to the exchange website

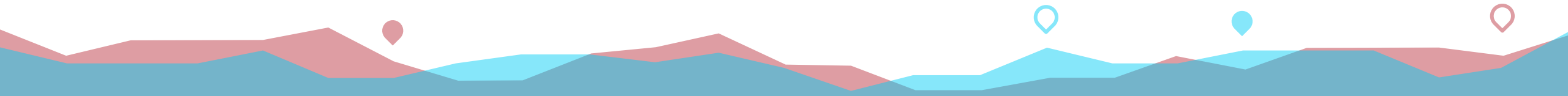
Cryptotrader

- Facilidade de uso
- API limitada(TaLib)
- Planos(0.003 B /month até 0.052 B /month)
- Preço do Bot (0.013 B /month)
- Principais corretoras(Poloniex, Bitfinex, Bittrex...)



Gekko

- 100% open source e grátis
- Backtest e paper trade
- Servidor local
- JavaScript (node.js)
- Robos demo



Gekko UI

- Home
- Live Gekkos
- Backtest
- Local data
- Config
- Documentation

Backtest

Select a dataset

EXCHANGE	CURRENCY	ASSET	FROM	TO	DURATION
<input checked="" type="radio"/> bitfinex	USD	BTC	2017-07-11 20:40	2017-07-14 14:53	2 days, 18 hours, 13 minutes

[Adjust range](#)

Strategy

Strategy:

RSI

Candle Size

1

minutes

Warmup period (in 1 minute candles):

10

Parameters

RSI Parameters:

interval = 14

[thresholds]

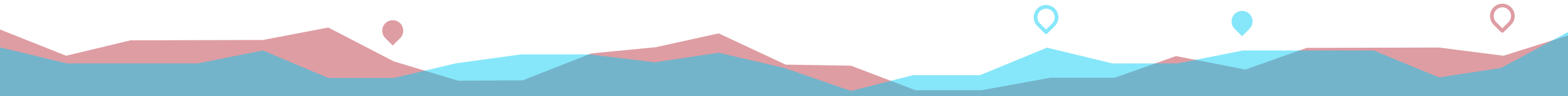
low = 30

high = 70

persistence = 1

Zenbot

- Similar ao Gekko(grátis, javascript,...)
- Interação através da linha de comando
- Voltado para performance
- Usuário mais avançado



Zenbot

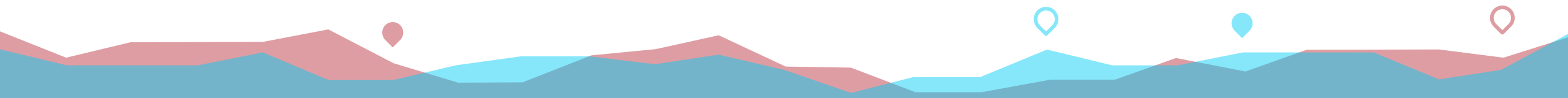
- Zenbot is NOT a sure-fire profit machine. Use it AT YOUR OWN RISK.
- Crypto-currency is still an experiment, and therefore so is Zenbot. Meaning, both may fail at any time.
- Running a bot, and trading in general requires careful study of the risks and parameters involved. A wrong setting can cause you a major loss.
- Never leave the bot un-monitored for long periods of time. Zenbot doesn't know when to stop, so be prepared to stop it if too much loss occurs.
- Often times the default trade parameters will underperform vs. a buy-hold strategy, so run some simulations and find the optimal parameters for your chosen exchange/pair before going "all-in".

Comparação Frameworks

Framework	Facilidade de uso	Preço	Segurança	Funcionalidades	Flexibilidade	Nível de programação	Linguagem
Cryptotrader	++	+	++	++	+	++	CoffeeScript
Haasbot	+++	+++	+++	+++	+++	+	C#
Zenbot	+	N/A	+	+	+++	+++	JavaScript
Gekko	+	N/A	+	+	+++	++++	JavaScript

Corretoras Brasileiras

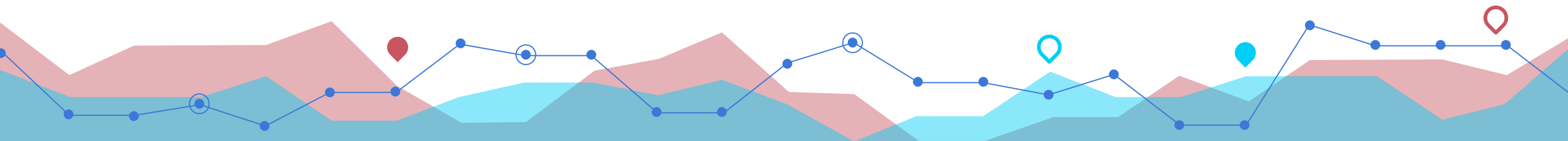
- FoxBit (blinktrade)
- MercadoBitcoin (HTTP)
- FlowBTC (WebSocket API)



Riscos Bots

- Cloud ou não
- Código
- Chave da API
- Bugs





Hands on

TradingView

Cryptotrader



Dúvidas?