

GETTING RICH QUICK WITH R AND CRYPTOCURRENCES?



github.com/holtzy/Cryp-To



+

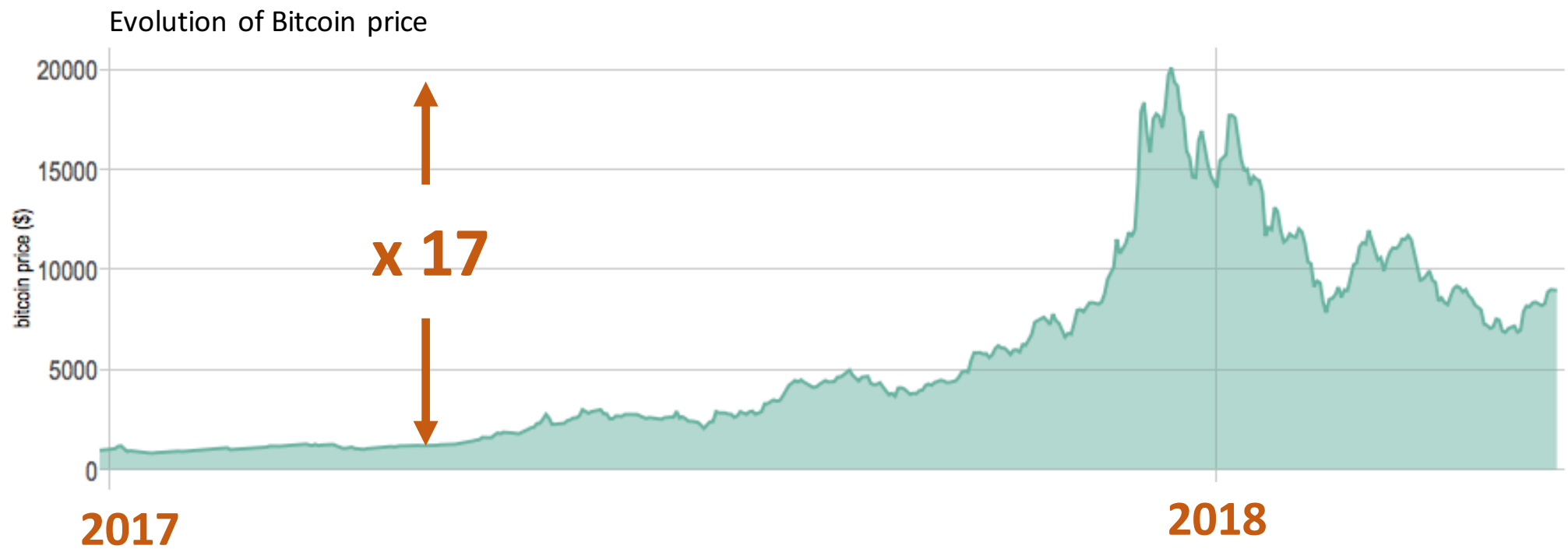


=

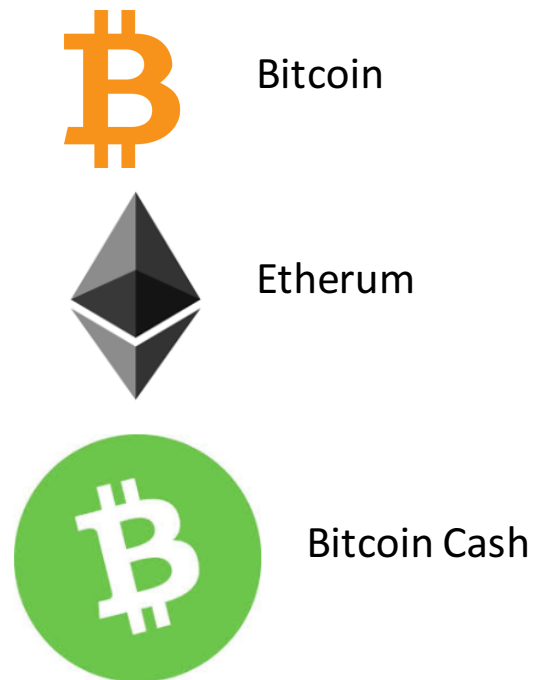


?

Crypto Currency <- Digital asset



Several **Currencies** exist:



Bought and sold on **Exchanges**

Bitstamp



coinbase

BITFINEX 

Several **Currencies** exist:



Bitcoin



Ethereum



Bitcoin Cash



Bought and sold on **Exchanges**

Bitstamp



kraken

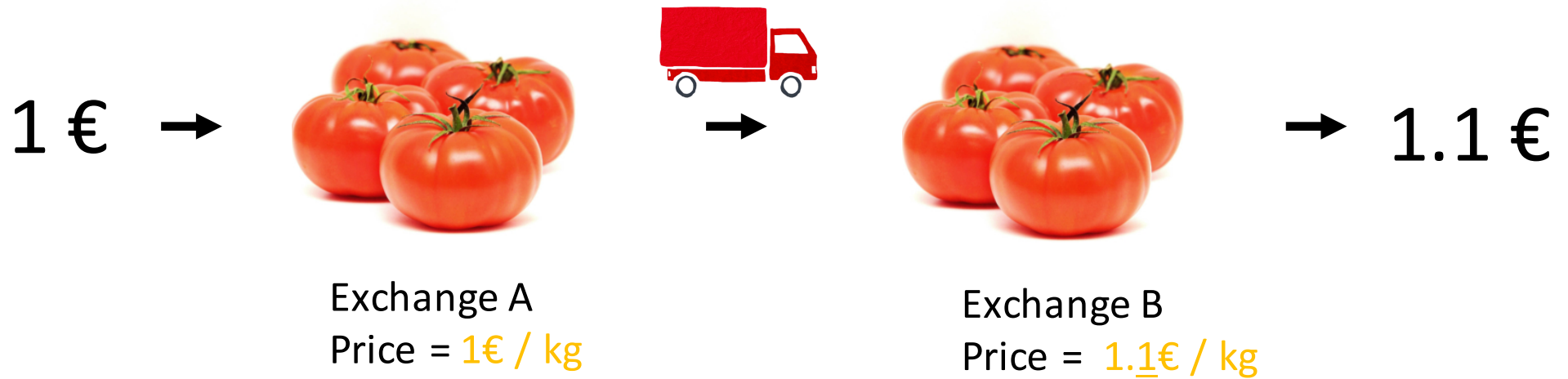


coinbase

BITFINEX 

What is arbitrage ?

What is arbitrage ?



PART I – Investigating price differences

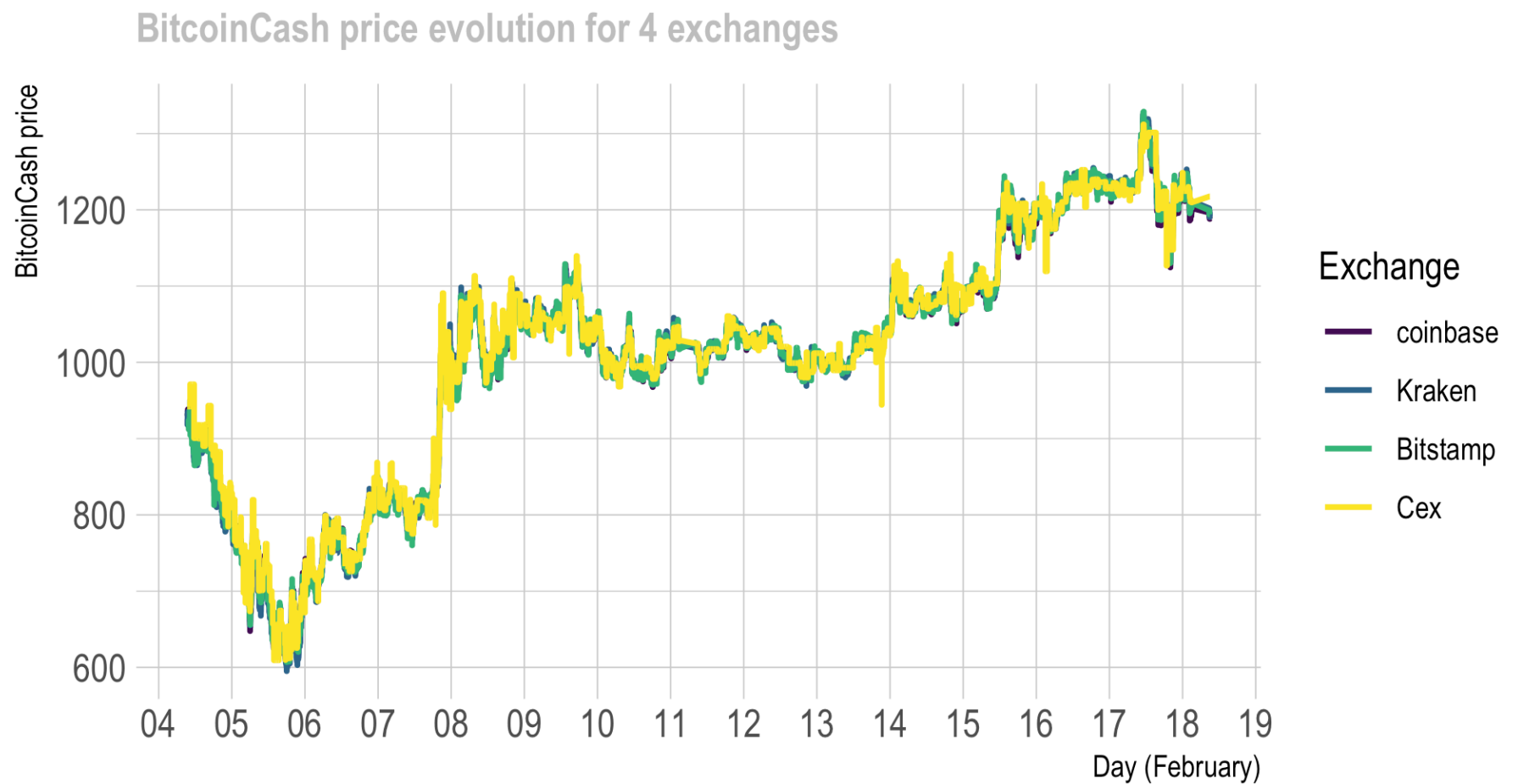
Harvesting data

- Use R to get price at time <- t

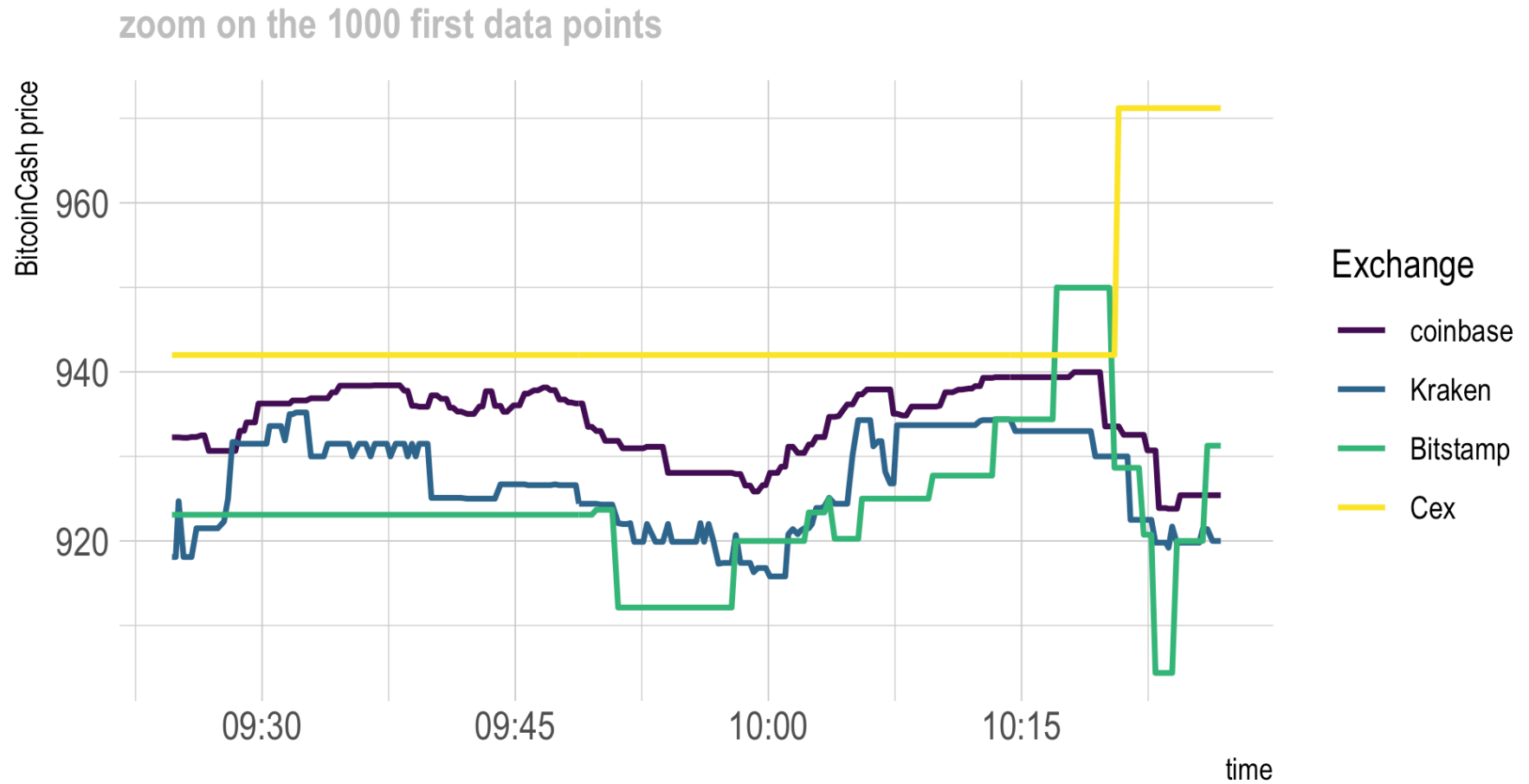
```
# Recover the information  
library(RCurl)  
adress <- "https://api.kraken.com/0/public/Ticker?pair=BTCEUR"  
ticker <- getURLContent(adress)
```

- Do it for **5 exchanges**, **5 currencies**, every 4 seconds, for **2 weeks**
- Get about **800,000 data points**

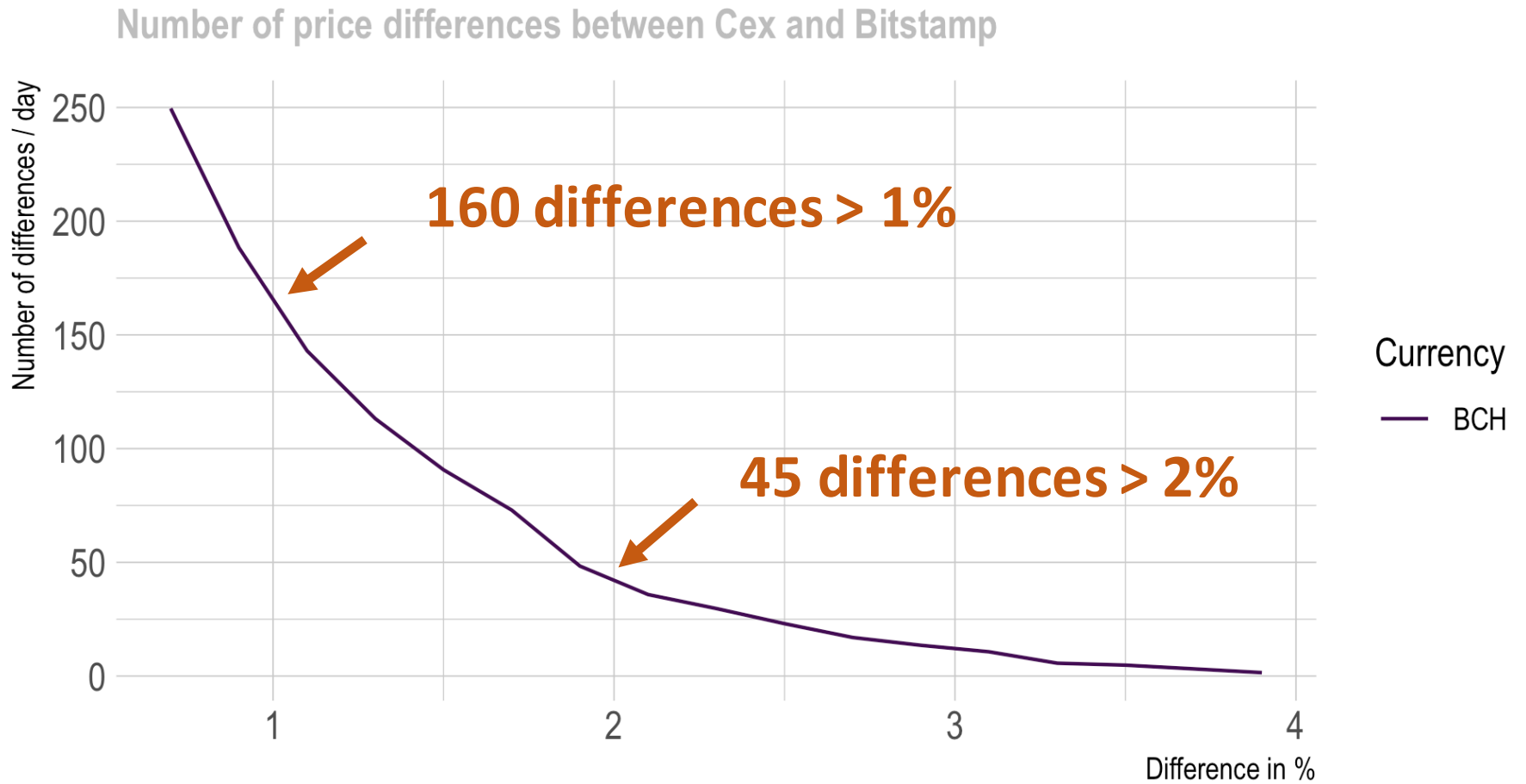
Prices are highly correlated among exchanges



But a few differences exist



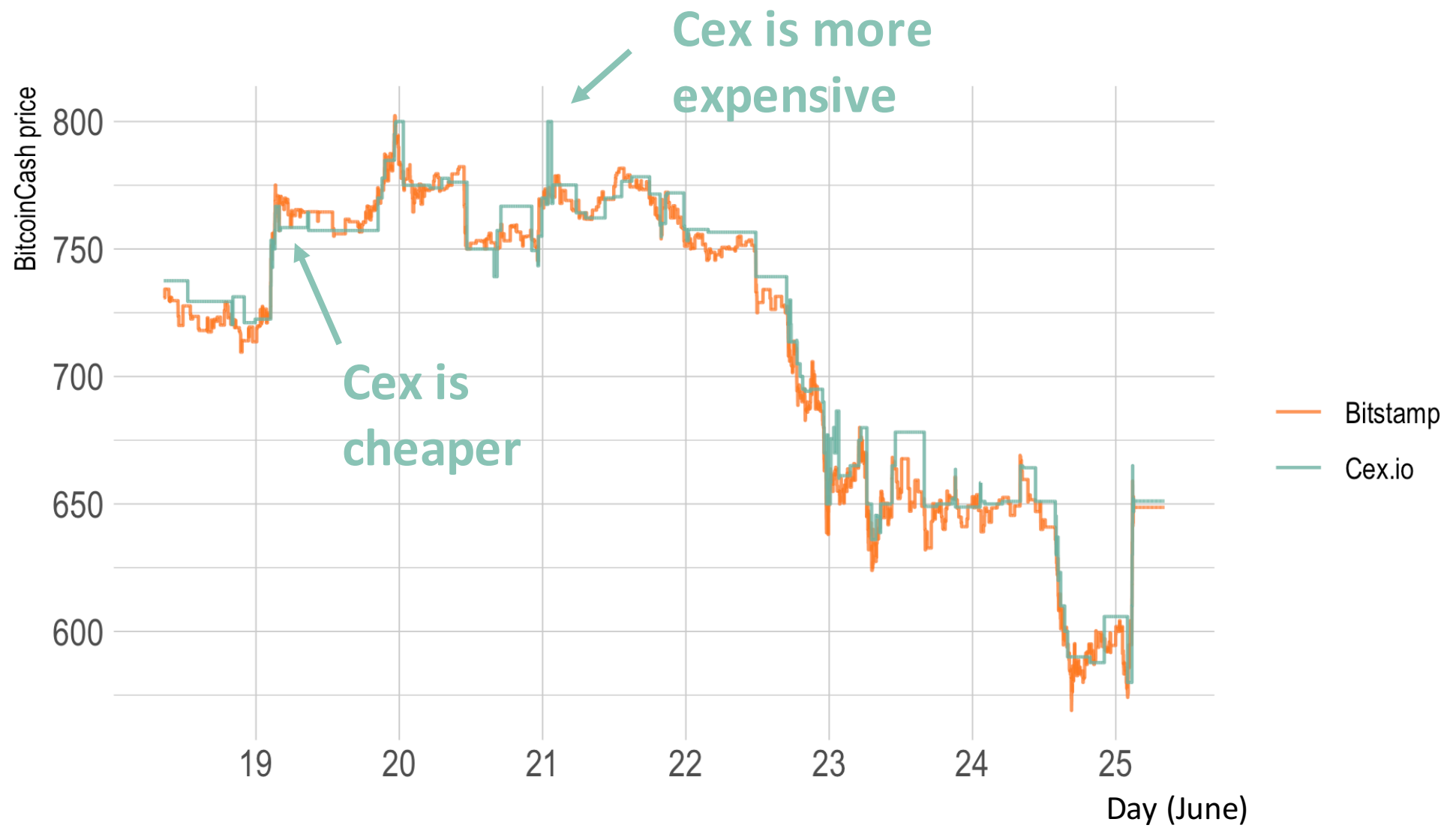
How many differences ?

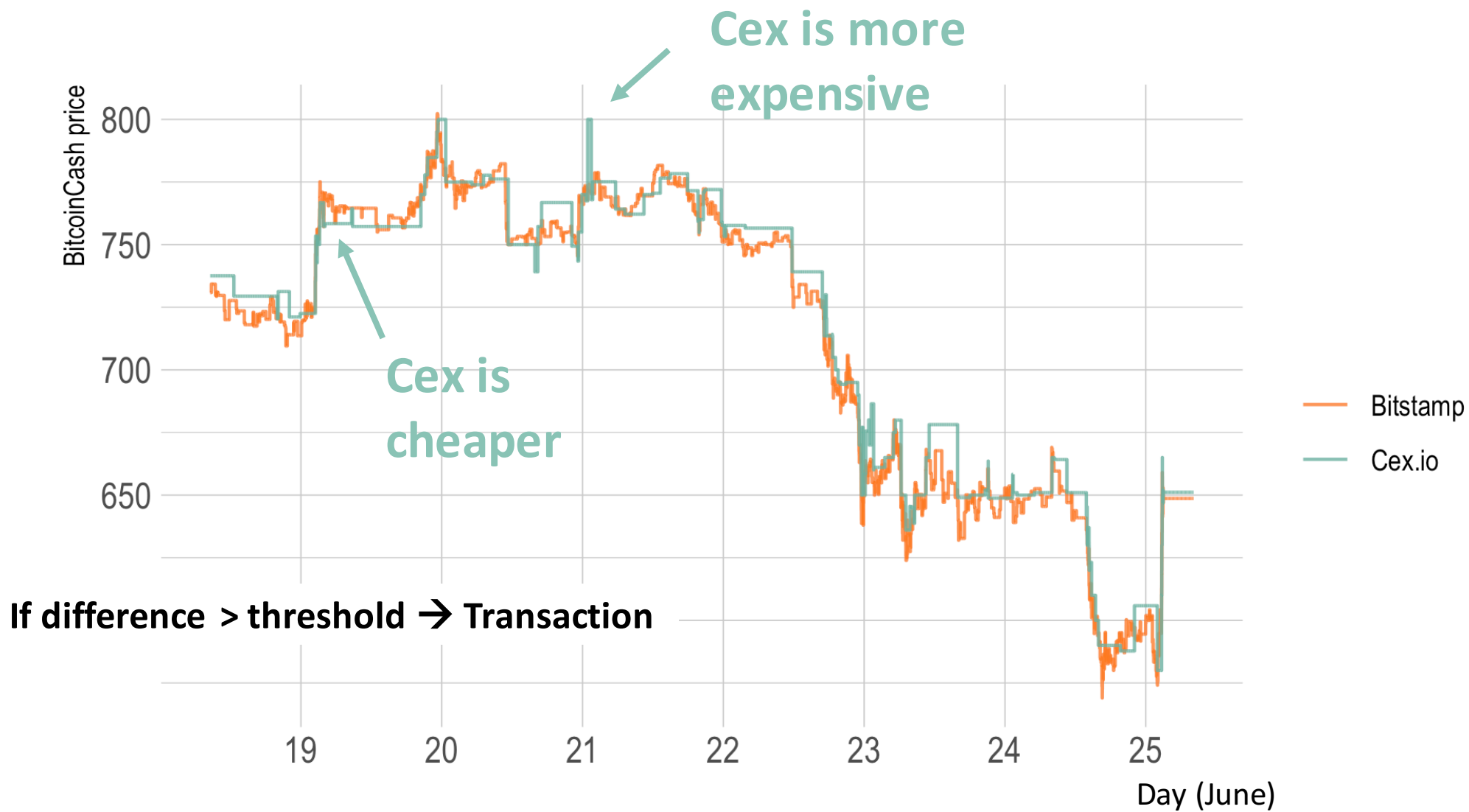


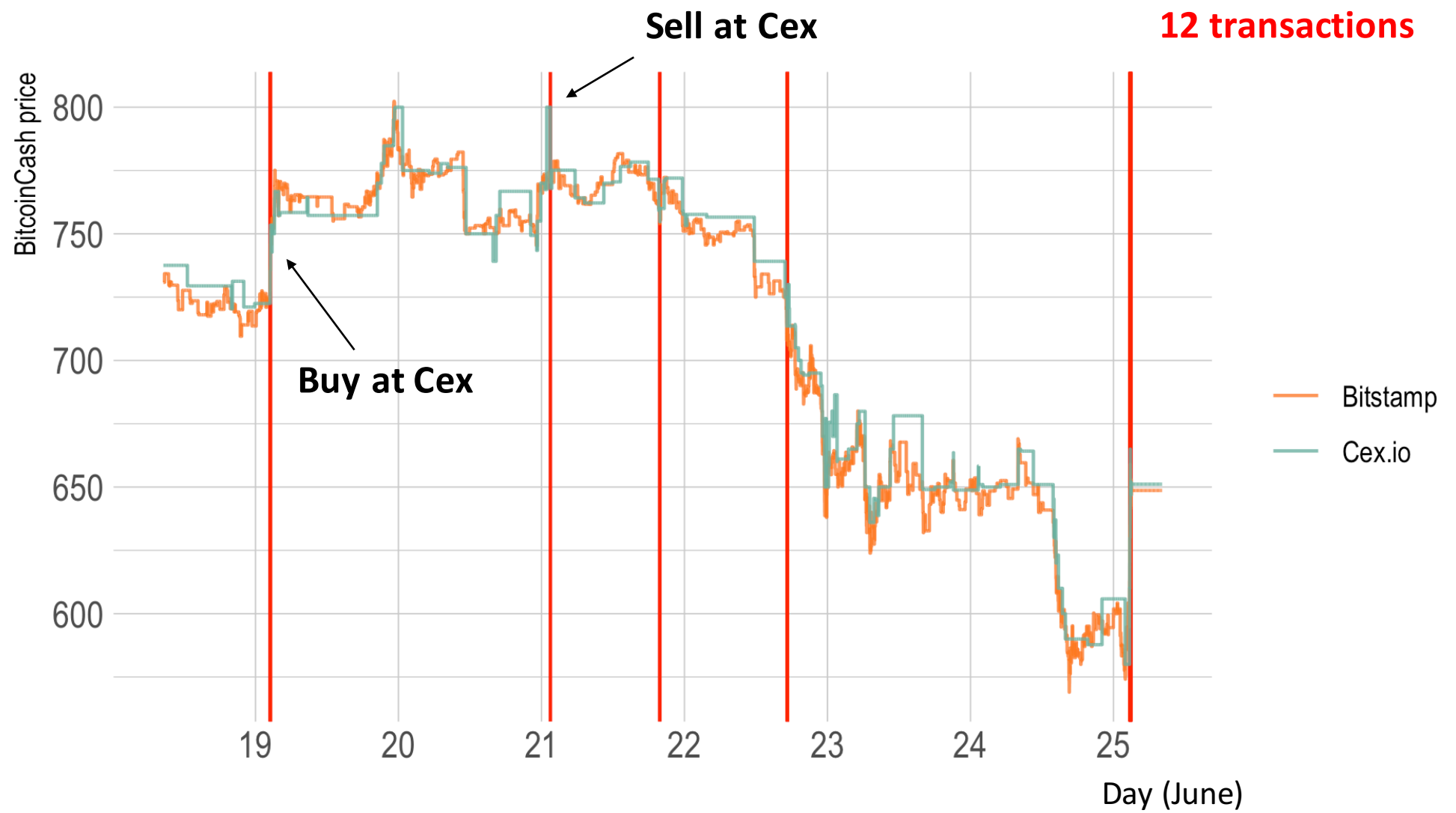
Running an arbitrage bot – for real

Bitcoin cash | Bitstamp vs Cex | 7 days | 400 euros invested

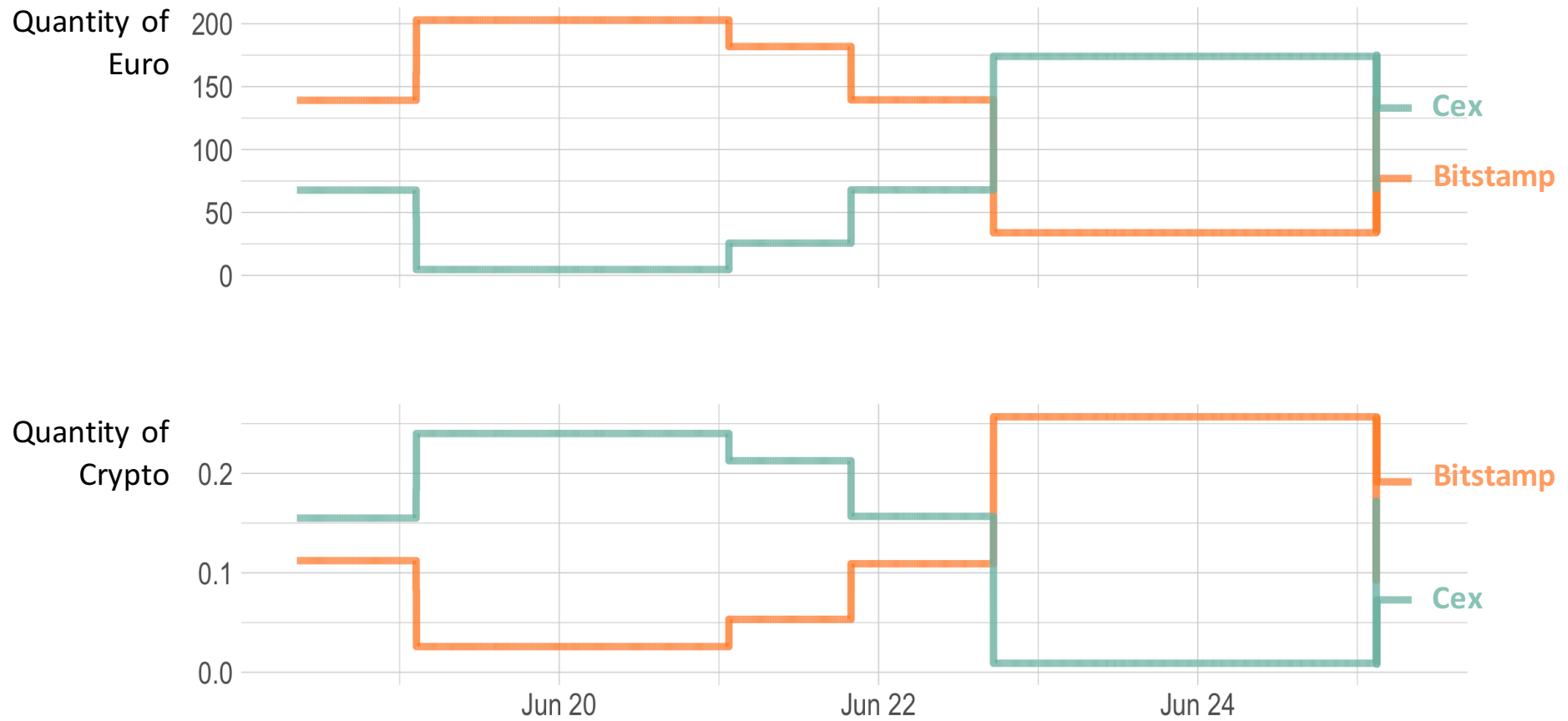






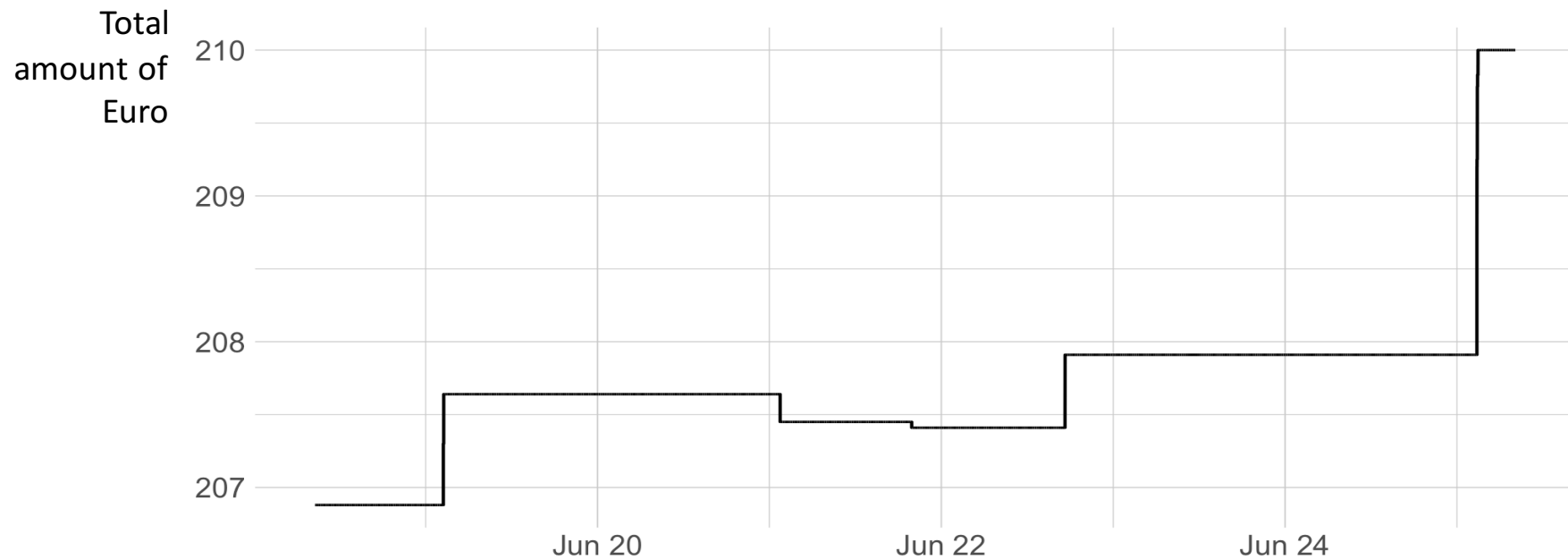


Evolution of Euro / Crypto accounts



Benefit

1.21 Euros | 0.3% of initial investment | 0.04% a day | 15% a year



Take Home

- Arbitrage = hard: fees + few differences + many other bots
- Getting even worse
- R makes the job!
- Functions available if you want to give it a try

Read more



github.com/holtzy/Talk



github.com/holtzy/Cryp-To

I am



@R_Graph_Gallery



Yan.holtz.data@gmail.com



R-graph-gallery.com

Arbitrage <- Getting rich ?

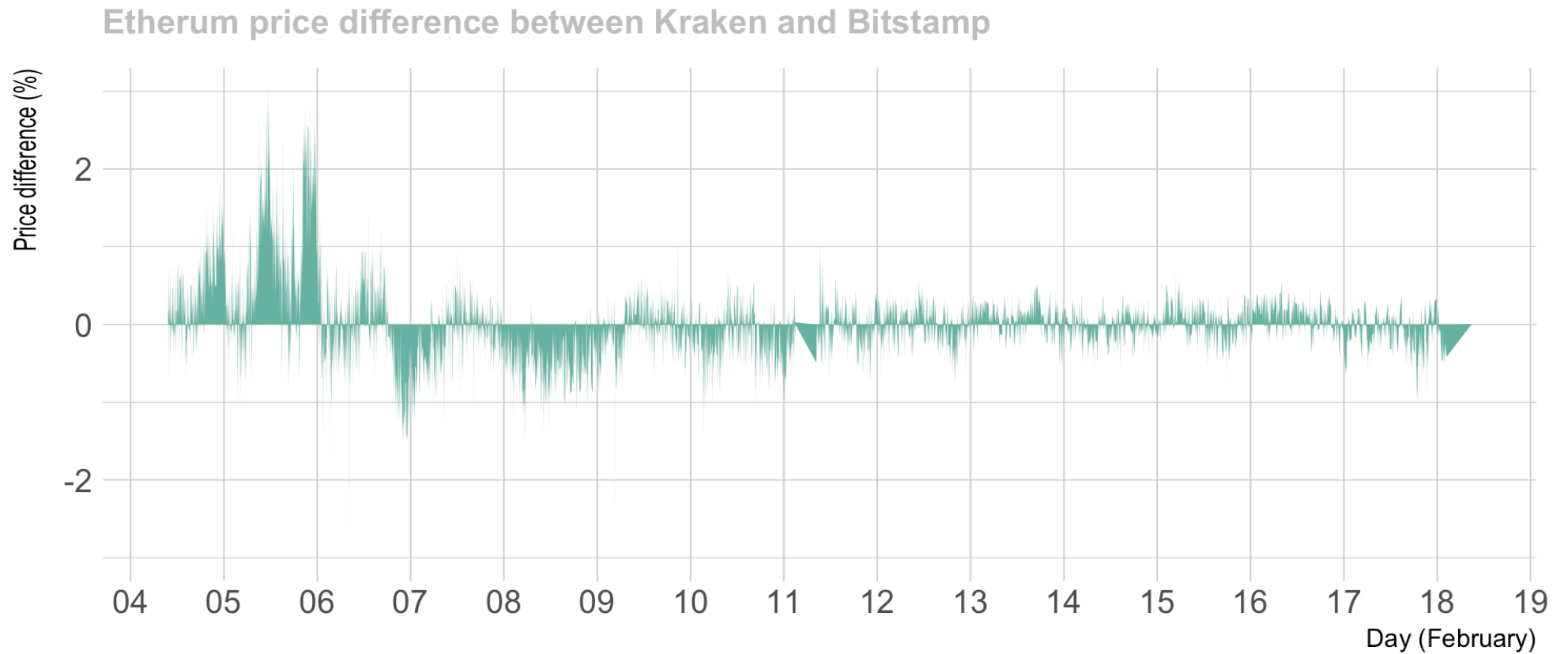


Meet Steve McKay **The Genius Behind The Ethereum Code**

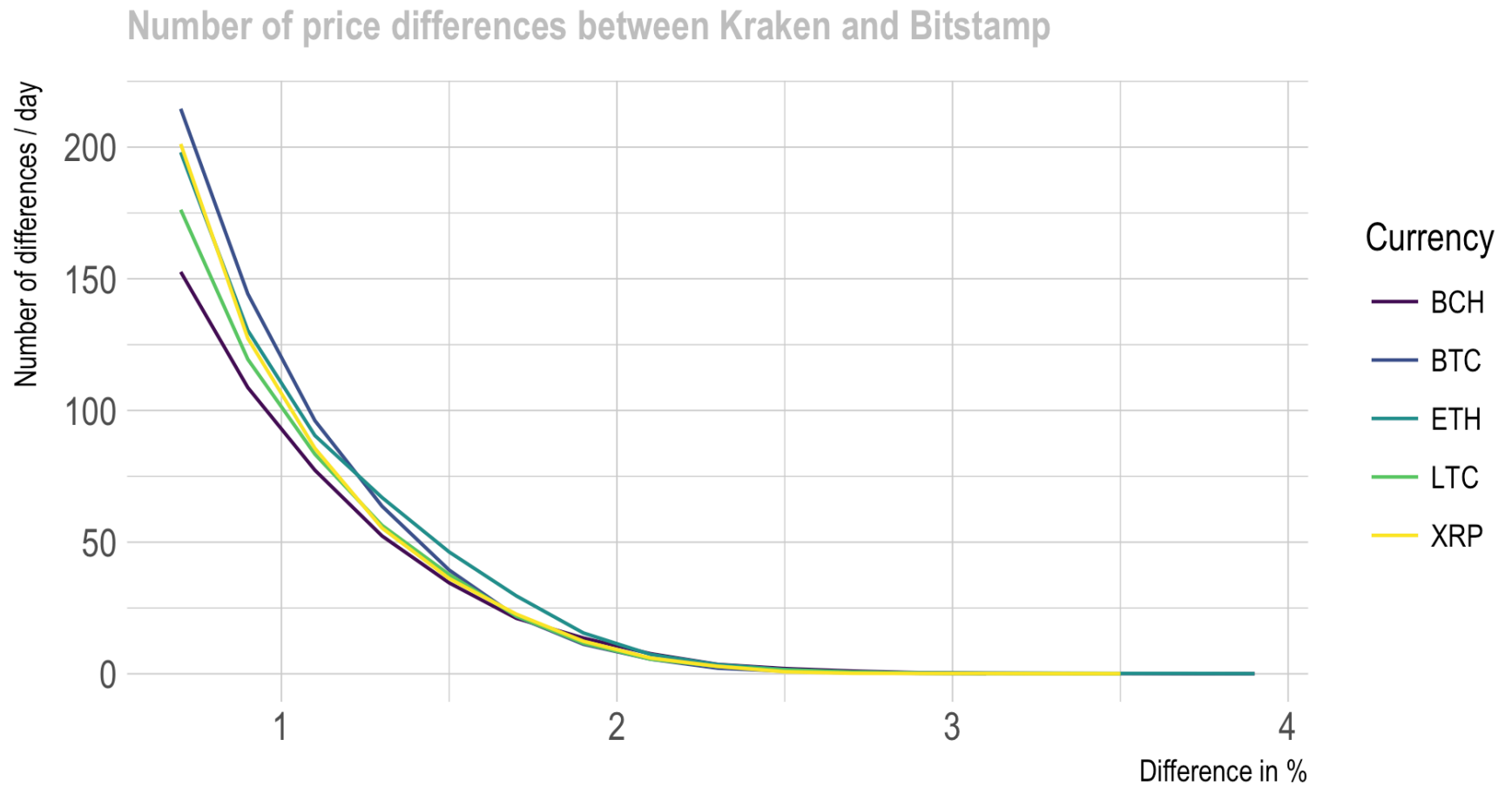
\$18,484,931.77 in profits within the past 6 months

<https://theethereumcode.software>

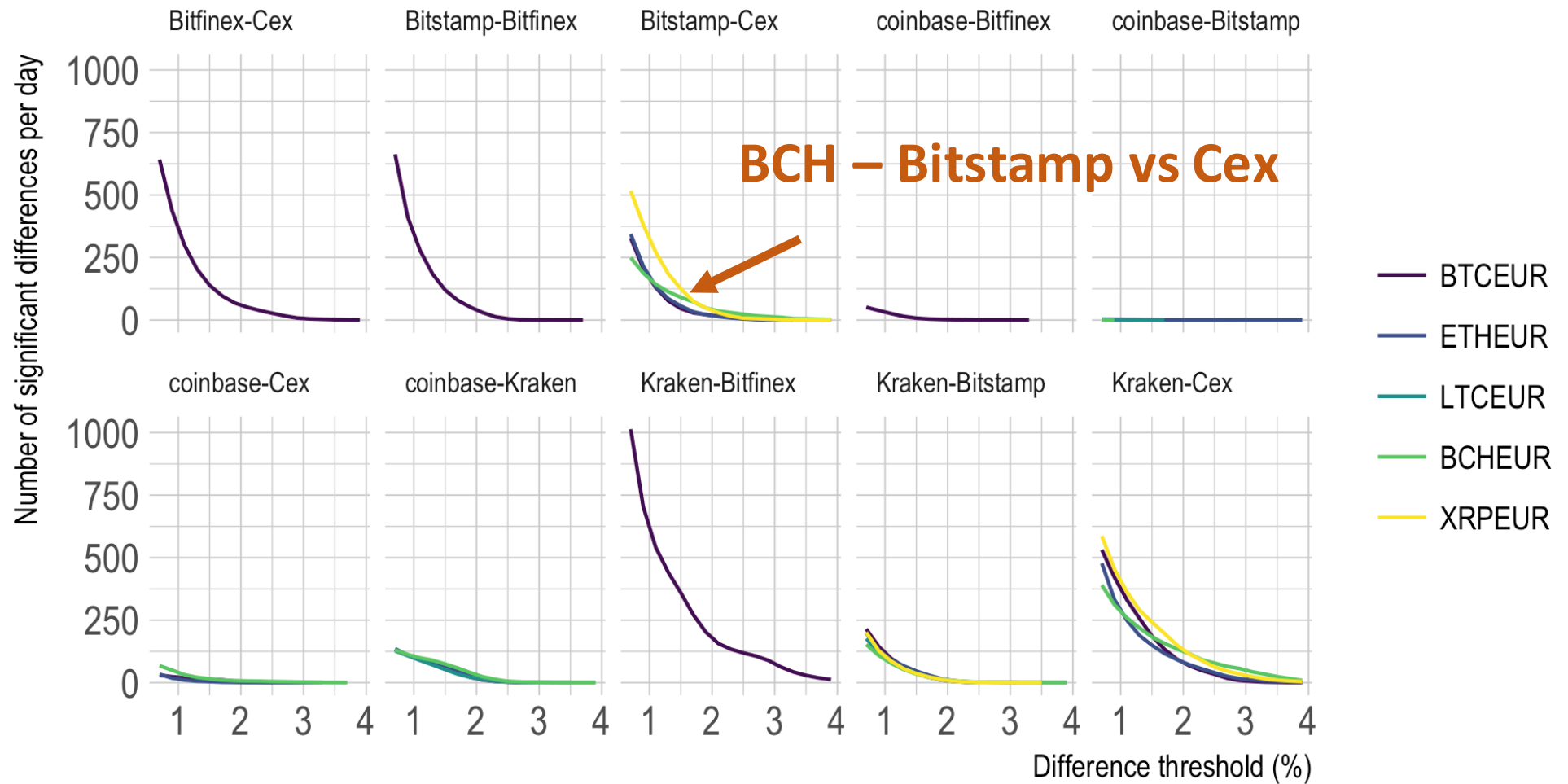
How many differences ?



Currency with more differences ?



Platform pair with more differences ?



Bid, ask and benefit

Bid

Price at which I can sell
crypto instantly

—

Ask

Price at which I can buy
crypto instantly

=

Benefit