R Markdown Output

Last run on: 2020-12-15 10:09:00

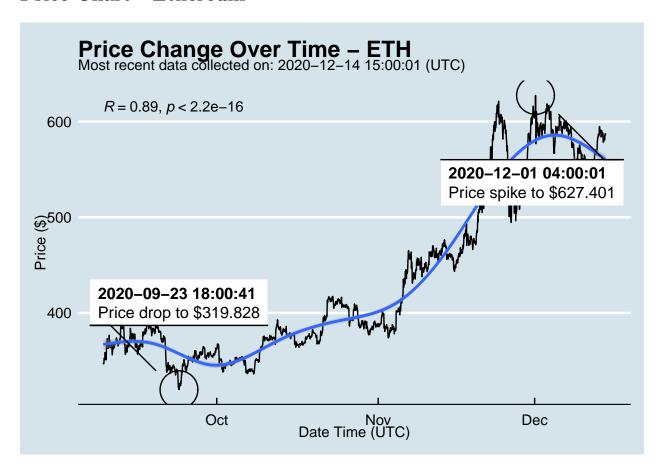
Overview

This document has code embedded throughout. In the next section we will create a visualization using the already loaded dataset ${\tt eth_data}$:

datatable(eth_data)

Show 10	0 entries		Search:
	pair	symbol	ask_1_price
1	ETHUSD	ETH	586.354 2020-12-14T22:00:01Z
2	ETHUSD	ETH	587.396 2020-12-14T21:00:01Z
3	ETHUSD	ETH	585.598 2020-12-14T20:00:01Z
4	ETHUSD	ETH	586.372 2020-12-14T19:00:01Z
5	ETHUSD	ETH	580.936 2020-12-14T18:00:01Z
6	ETHUSD	ETH	581.332 2020-12-14T17:00:01Z
7	ETHUSD	ETH	583.641 2020-12-14T16:00:01Z
8	ETHUSD	ETH	582.559 2020-12-14T15:00:01Z
9	ETHUSD	ETH	582.14 2020-12-14T14:00:01Z
10	ETHUSD	ETH	578.901 2020-12-14T13:00:01Z
Showing 1 to 10 of 2,165 entries			Previous 1 2 3 4 5 217 Next

Price Chart - Ethereum



Python Code Example

```
import pandas as pd
# Create the Python object from R
df = r.cryptodata
# Show the new Python dataframe
df
##
           pair symbol
                        ask_1_price
                                           date_time_utc
## 0
         ETHUSD
                   ETH
                            586.354 2020-12-14 22:00:01
         BTCUSD
                          19195.290 2020-12-14 22:00:00
## 1
                   BTC
## 2
         BTCUSD
                   BTC
                          19211.840 2020-12-14 21:00:01
## 3
         ETHUSD
                   ETH
                            587.396 2020-12-14 21:00:01
## 4
         BTCUSD
                   BTC
                          19176.520 2020-12-14 20:00:01
##
## 5201
        BTCUSD
                   BTC
                          11972.900 2020-08-10 06:03:50
## 5202 BTCUSD
                   BTC
                          11985.890 2020-08-10 05:03:48
## 5203
        BTCUSD
                   BTC
                          11997.470 2020-08-10 04:32:55
## 5204 BTCUSD
                   BTC
                          10686.880
                                                     NaT
## 5205 ETHUSD
                            357.844
                                                     NaT
##
```

One more Python example

The code below creates a new column price_percentile that specifies if the price for the row was in the upper or lower 50th percentile of prices (BTC should be upper and ETH lower):

```
##
        symbol
                ask_1_price
                                            price_percentile
## 0
           ETH
                    586.354
                             lower 50th percentile of prices
## 1
           BTC
                  19195.290
                             upper 50th percentile of prices
## 2
           BTC
                  19211.840
                             upper 50th percentile of prices
## 3
           ETH
                    587.396 lower 50th percentile of prices
                  19176.520 upper 50th percentile of prices
## 4
           BTC
## ...
           . . .
## 5201
           BTC
                  11972.900 upper 50th percentile of prices
## 5202
           BTC
                  11985.890 upper 50th percentile of prices
## 5203
                  11997.470 upper 50th percentile of prices
           BTC
## 5204
           BTC
                  10686.880
                             upper 50th percentile of prices
## 5205
           ETH
                             lower 50th percentile of prices
                    357.844
##
## [5206 rows x 3 columns]
```