

R Markdown Output

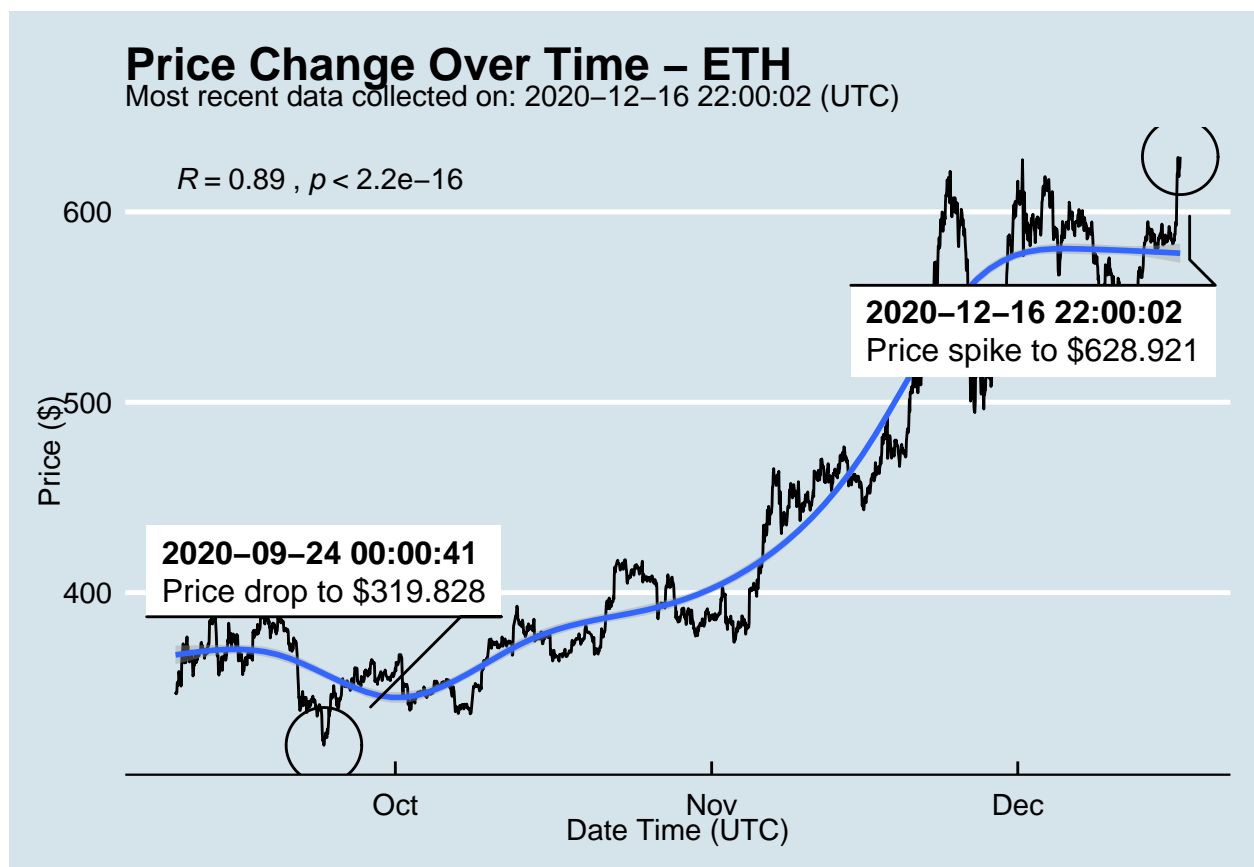
Last run on: 2020-12-16 22:55:40

Overview

This document has code embedded throughout. In the next section we will create a visualization using the already loaded dataset `eth_data`:

```
datatable(eth_data)
```

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      628.921 2020-12-16 22:00:02
## 1    BTCUSD    BTC     21184.430 2020-12-16 22:00:01
## 2    BTCUSD    BTC     20809.290 2020-12-16 21:00:01
## 3    ETHUSD    ETH      623.176 2020-12-16 21:00:01
## 4    BTCUSD    BTC     20737.740 2020-12-16 20:00:01
## ...      ...      ...          ...
## 5297 BTCUSD    BTC     11972.900 2020-08-10 06:03:50
## 5298 BTCUSD    BTC     11985.890 2020-08-10 05:03:48
## 5299 BTCUSD    BTC     11997.470 2020-08-10 04:32:55
## 5300 BTCUSD    BTC     10686.880                NaT
## 5301 ETHUSD    ETH       357.844                NaT
##
## [5302 rows x 4 columns]
```

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):

```
import numpy as np
# Create a new column based on the ask_1_price value:
df['price_percentile'] = np.where(df['ask_1_price'] >
                                np.percentile(df['ask_1_price'], 50),
                                'upper 50th percentile of prices',
                                'lower 50th percentile of prices')
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]
```

```
##          symbol  ask_1_price      price_percentile
## 0          ETH      628.921  lower 50th percentile of prices
## 1          BTC     21184.430  upper 50th percentile of prices
## 2          BTC     20809.290  upper 50th percentile of prices
## 3          ETH      623.176  lower 50th percentile of prices
## 4          BTC     20737.740  upper 50th percentile of prices
## ...      ...      ...
## 5297 BTC     11972.900  upper 50th percentile of prices
## 5298 BTC     11985.890  upper 50th percentile of prices
## 5299 BTC     11997.470  upper 50th percentile of prices
## 5300 BTC     10686.880  upper 50th percentile of prices
## 5301 ETH       357.844  lower 50th percentile of prices
##
## [5302 rows x 3 columns]
```