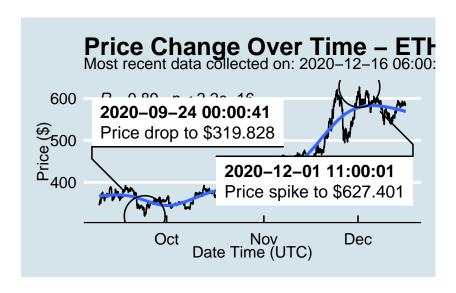
R Markdown Output

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
                             583.507 2020-12-16 06:00:02
                   ETH
## 1
         BTCUSD
                   BTC
                           19367.630 2020-12-16 06:00:00
         BTCUSD
                           19351.160 2020-12-16 05:00:01
## 2
                   BTC
         ETHUSD
                             583.321 2020-12-16 05:00:01
## 3
                    ETH
         ETHUSD
                             583.142 2020-12-16 04:00:01
## 4
                   ETH
## ...
## 5265
         BTCUSD
                           11972.900 2020-08-10 06:03:50
                   BTC
## 5266
         BTCUSD
                   BTC
                           11985.890 2020-08-10 05:03:48
                           11997.470 2020-08-10 04:32:55
## 5267
         BTCUSD
                   BTC
## 5268
                           10686.880
         BTCUSD
                   BTC
                                                      NaT
```

```
## 5269 ETHUSD
                    ETH
                             357.844
                                                      NaT
##
## [5270 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
## O
           ETH
                             lower 50th percentile of prices
                    583.507
           BTC
                  19367.630 upper 50th percentile of prices
## 1
## 2
           BTC
                  19351.160
                             upper 50th percentile of prices
                    583.321 lower 50th percentile of prices
## 3
           ETH
## 4
           ETH
                    583.142 lower 50th percentile of prices
## ...
## 5265
           BTC
                  11972.900 upper 50th percentile of prices
## 5266
                  11985.890 upper 50th percentile of prices
           BTC
## 5267
           BTC
                  11997.470 upper 50th percentile of prices
                  10686.880 upper 50th percentile of prices
## 5268
           BTC
## 5269
           ETH
                    357.844 lower 50th percentile of prices
##
## [5270 rows x 3 columns]
```