

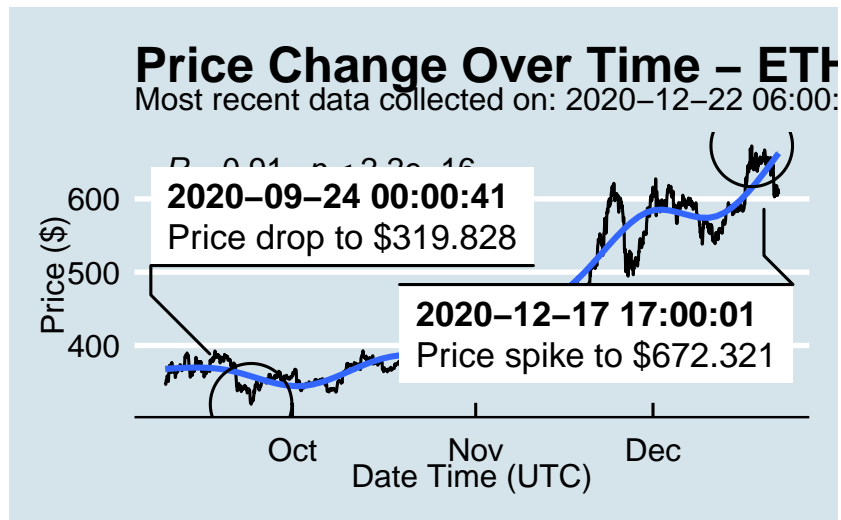
R Markdown Output

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 | BTCUSD | BTC | 22681.910 | 2020-12-22 06:00:01 |
| ## 1 | ETHUSD | ETH | 606.759 | 2020-12-22 06:00:01 |
| ## 2 | ETHUSD | ETH | 612.432 | 2020-12-22 05:00:01 |
| ## 3 | BTCUSD | BTC | 22952.290 | 2020-12-22 05:00:00 |
| ## 4 | BTCUSD | BTC | 22855.460 | 2020-12-22 04:00:01 |
| ## ... | ... | ... | ... | ... |
| ## 5553 | BTCUSD | BTC | 11972.900 | 2020-08-10 06:03:50 |
| ## 5554 | BTCUSD | BTC | 11985.890 | 2020-08-10 05:03:48 |
| ## 5555 | BTCUSD | BTC | 11997.470 | 2020-08-10 04:32:55 |
| ## 5556 | BTCUSD | BTC | 10686.880 | NaT |

```
## 5557 ETHUSD ETH 357.844 NaT
##
## [5558 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      BTC    22681.910  upper 50th percentile of prices
## 1      ETH     606.759  lower 50th percentile of prices
## 2      ETH     612.432  lower 50th percentile of prices
## 3      BTC    22952.290  upper 50th percentile of prices
## 4      BTC    22855.460  upper 50th percentile of prices
## ...      ...          ...                ...
## 5553     BTC    11972.900  upper 50th percentile of prices
## 5554     BTC    11985.890  upper 50th percentile of prices
## 5555     BTC    11997.470  upper 50th percentile of prices
## 5556     BTC    10686.880  upper 50th percentile of prices
## 5557     ETH     357.844  lower 50th percentile of prices
##
## [5558 rows x 3 columns]
```