

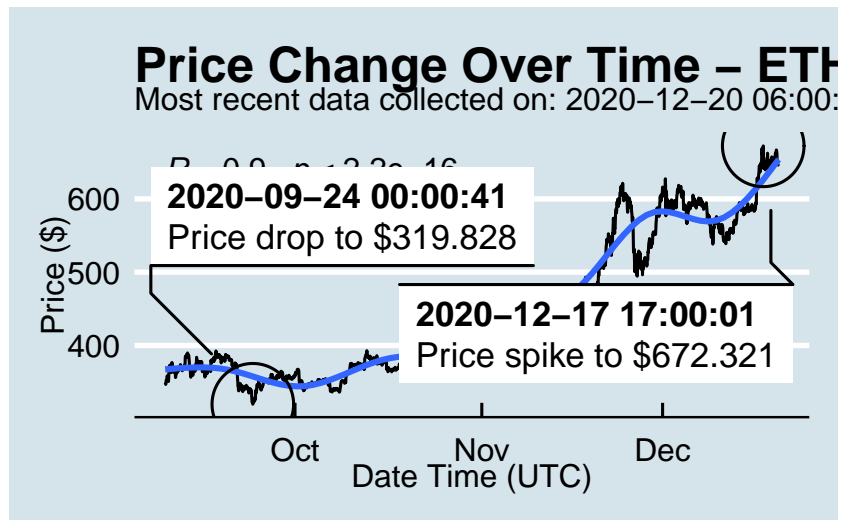
R Markdown Output

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	ETH	648.147	2020-12-20 06:00:01
## 1	BTCUSD	BTC	23482.940	2020-12-20 06:00:00
## 2	ETHUSD	ETH	647.998	2020-12-20 05:00:01
## 3	BTCUSD	BTC	23432.510	2020-12-20 05:00:00
## 4	ETHUSD	ETH	646.178	2020-12-20 04:00:01
##
## 5457	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
## 5458	BTCUSD	BTC	11985.890	2020-08-10 05:03:48
## 5459	BTCUSD	BTC	11997.470	2020-08-10 04:32:55
## 5460	BTCUSD	BTC	10686.880	NaT

```
## 5461  ETHUSD    ETH      357.844      NaT
##
## [5462 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      648.147  lower 50th percentile of prices
## 1      BTC     23482.940  upper 50th percentile of prices
## 2      ETH      647.998  lower 50th percentile of prices
## 3      BTC     23432.510  upper 50th percentile of prices
## 4      ETH      646.178  lower 50th percentile of prices
## ...      ...           ...              ...
## 5457     BTC     11972.900  upper 50th percentile of prices
## 5458     BTC     11985.890  upper 50th percentile of prices
## 5459     BTC     11997.470  upper 50th percentile of prices
## 5460     BTC     10686.880  upper 50th percentile of prices
## 5461     ETH      357.844  lower 50th percentile of prices
##
## [5462 rows x 3 columns]
```