

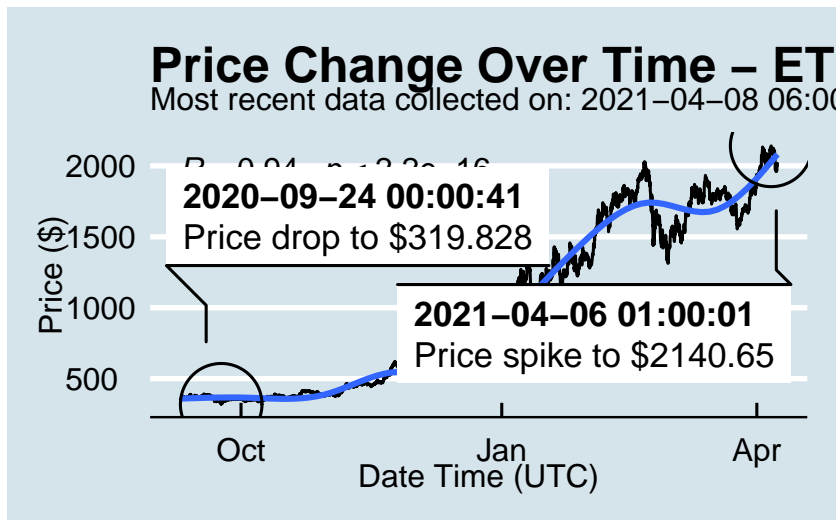
R Markdown Output

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    56860.000 2021-04-08 06:00:01
## 1    ETHUSD   ETH     2011.485 2021-04-08 06:00:01
## 2    ETHUSD   ETH     2018.416 2021-04-08 05:00:01
## 3    BTCUSD   BTC    56907.250 2021-04-08 05:00:00
## 4    ETHUSD   ETH     1994.412 2021-04-08 04:00:01
## ...      ...      ...      ...      ...
## 10685 BTCUSD   BTC    11972.900 2020-08-10 06:03:50
## 10686 BTCUSD   BTC    11985.890 2020-08-10 05:03:48
## 10687 BTCUSD   BTC    11997.470 2020-08-10 04:32:55
## 10688 BTCUSD   BTC     10686.880                NaT
```

```
## 10689 ETHUSD ETH 357.844 NaT
##
## [10690 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    56860.000  upper 50th percentile of prices
## 1      ETH     2011.485  lower 50th percentile of prices
## 2      ETH     2018.416  lower 50th percentile of prices
## 3      BTC    56907.250  upper 50th percentile of prices
## 4      ETH     1994.412  lower 50th percentile of prices
## ...      ...          ...                ...
## 10685    BTC    11972.900  upper 50th percentile of prices
## 10686    BTC    11985.890  upper 50th percentile of prices
## 10687    BTC    11997.470  upper 50th percentile of prices
## 10688    BTC    10686.880  upper 50th percentile of prices
## 10689    ETH      357.844  lower 50th percentile of prices
##
## [10690 rows x 3 columns]
```