

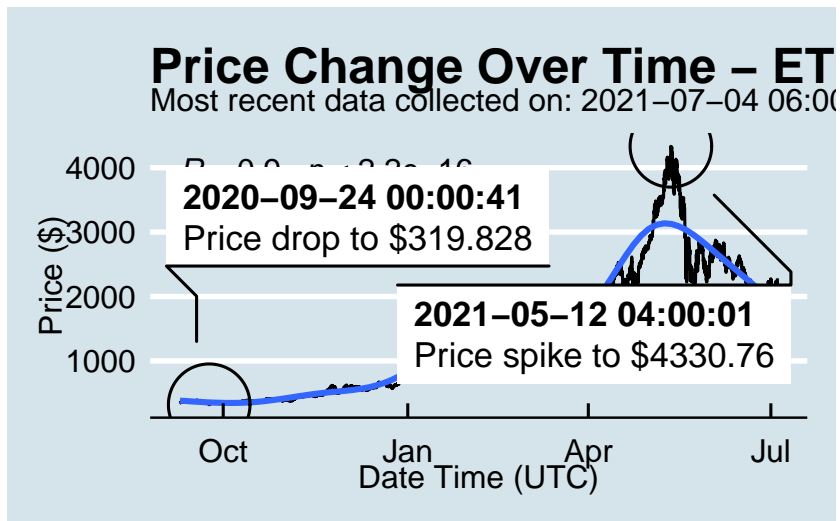
R Markdown Output

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 | 2282.021 | 2021-07-04 06:00:01 |
| ## 1 | BTCUSD | BTC | 35202.500 | 2021-07-04 06:00:00 |
| ## 2 | BTCUSD | BTC | 34784.930 | 2021-07-04 05:00:01 |
| ## 3 | ETHUSD | ETH | 2224.323 | 2021-07-04 05:00:01 |
| ## 4 | ETHUSD | ETH | 2209.063 | 2021-07-04 04:00:01 |
| ## ... | ... | ... | ... | ... |
| ## 14855 | BTCUSD | BTC | 11972.900 | 2020-08-10 06:03:50 |
| ## 14856 | BTCUSD | BTC | 11985.890 | 2020-08-10 05:03:48 |

```
## 14857 BTCUSD BTC 11997.470 2020-08-10 04:32:55
## 14858 BTCUSD BTC 10686.880 NaT
## 14859 ETHUSD ETH 357.844 NaT
##
## [14860 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    2282.021  lower 50th percentile of prices
## 1      BTC    35202.500  upper 50th percentile of prices
## 2      BTC    34784.930  upper 50th percentile of prices
## 3      ETH    2224.323  lower 50th percentile of prices
## 4      ETH    2209.063  lower 50th percentile of prices
## ...      ...      ...
## 14855    BTC    11972.900  upper 50th percentile of prices
## 14856    BTC    11985.890  upper 50th percentile of prices
## 14857    BTC    11997.470  upper 50th percentile of prices
## 14858    BTC    10686.880  upper 50th percentile of prices
## 14859    ETH     357.844  lower 50th percentile of prices
##
## [14860 rows x 3 columns]
```