

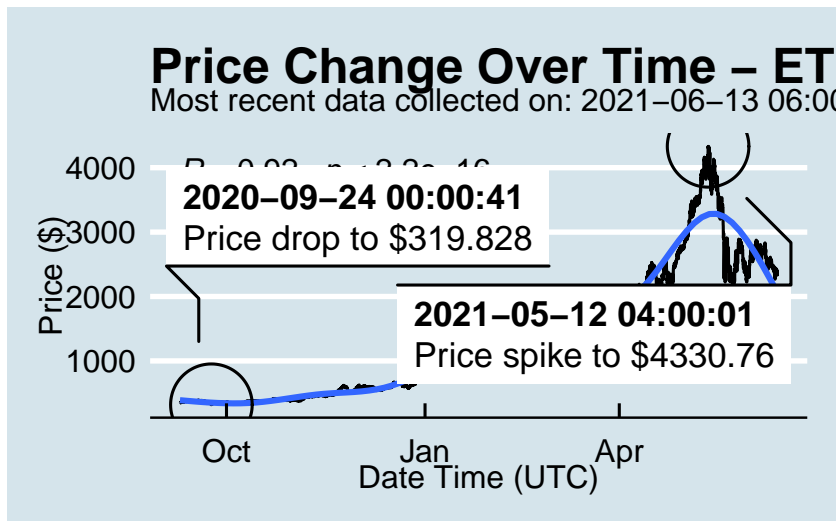
R Markdown Output

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 | 2316.348 | 2021-06-13 06:00:01 |
| ## 1 | BTCUSD | BTC | 34982.970 | 2021-06-13 06:00:00 |
| ## 2 | ETHUSD | ETH | 2343.261 | 2021-06-13 05:00:01 |
| ## 3 | BTCUSD | BTC | 35185.780 | 2021-06-13 05:00:00 |
| ## 4 | ETHUSD | ETH | 2333.743 | 2021-06-13 04:00:01 |
| ## ... | ... | ... | ... | ... |
| ## 13847 | BTCUSD | BTC | 11972.900 | 2020-08-10 06:03:50 |
| ## 13848 | BTCUSD | BTC | 11985.890 | 2020-08-10 05:03:48 |

```
## 13849 BTCUSD BTC 11997.470 2020-08-10 04:32:55
## 13850 BTCUSD BTC 10686.880 NaT
## 13851 ETHUSD ETH 357.844 NaT
##
## [13852 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    2316.348  lower 50th percentile of prices
## 1      BTC   34982.970  upper 50th percentile of prices
## 2      ETH    2343.261  lower 50th percentile of prices
## 3      BTC   35185.780  upper 50th percentile of prices
## 4      ETH    2333.743  lower 50th percentile of prices
## ...      ...          ...                ...
## 13847    BTC   11972.900  upper 50th percentile of prices
## 13848    BTC   11985.890  upper 50th percentile of prices
## 13849    BTC   11997.470  upper 50th percentile of prices
## 13850    BTC   10686.880  upper 50th percentile of prices
## 13851    ETH     357.844  lower 50th percentile of prices
##
## [13852 rows x 3 columns]
```