

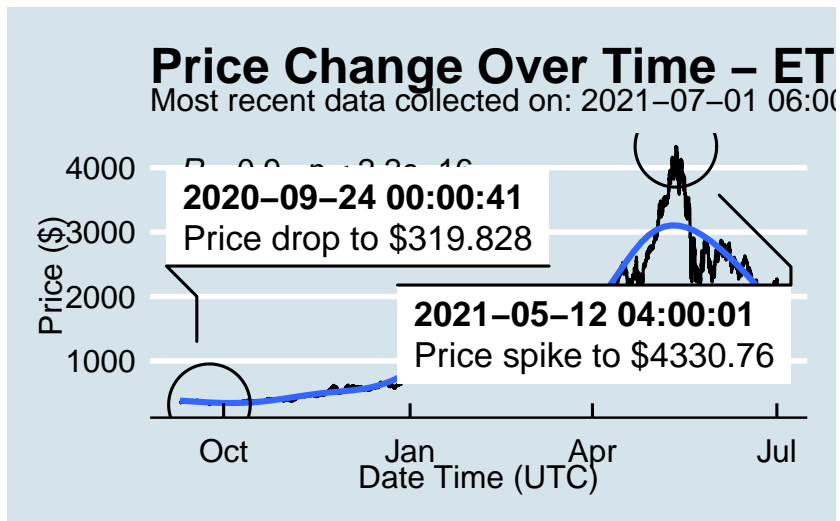
## R Markdown Output

### 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	2216.146	2021-07-01 06:00:01
## 1	BTCUSD	BTC	34335.630	2021-07-01 06:00:00
## 2	ETHUSD	ETH	2209.507	2021-07-01 05:00:01
## 3	BTCUSD	BTC	34337.530	2021-07-01 05:00:00
## 4	ETHUSD	ETH	2185.553	2021-07-01 04:00:01
## ...	...	...	...	...
## 14711	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
## 14712	BTCUSD	BTC	11985.890	2020-08-10 05:03:48

```
## 14713 BTCUSD BTC 11997.470 2020-08-10 04:32:55
## 14714 BTCUSD BTC 10686.880 NaT
## 14715 ETHUSD ETH 357.844 NaT
##
## [14716 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    2216.146  lower 50th percentile of prices
## 1      BTC   34335.630  upper 50th percentile of prices
## 2      ETH    2209.507  lower 50th percentile of prices
## 3      BTC   34337.530  upper 50th percentile of prices
## 4      ETH    2185.553  lower 50th percentile of prices
## ...      ...         ...
## 14711    BTC    11972.900  upper 50th percentile of prices
## 14712    BTC    11985.890  upper 50th percentile of prices
## 14713    BTC    11997.470  upper 50th percentile of prices
## 14714    BTC    10686.880  upper 50th percentile of prices
## 14715    ETH     357.844  lower 50th percentile of prices
##
## [14716 rows x 3 columns]
```