

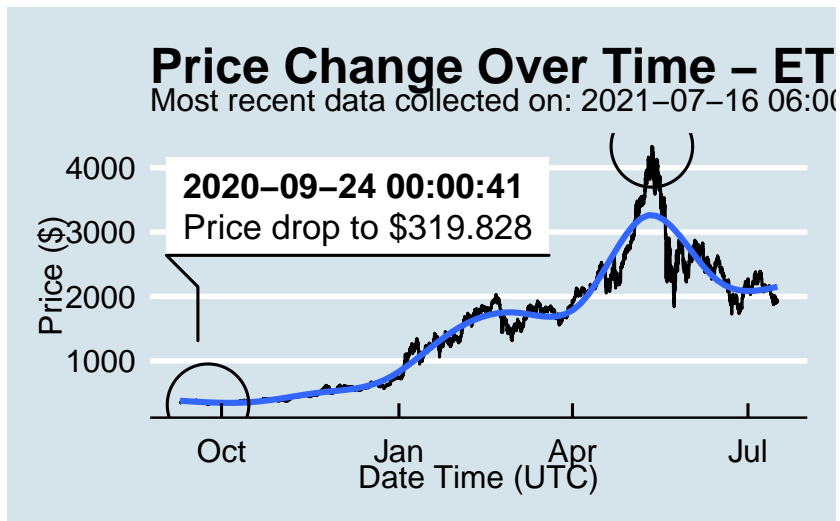
## R Markdown Output

### 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	1928.872	2021-07-16 06:00:01
## 1	BTCUSD	BTC	31804.460	2021-07-16 06:00:00
## 2	ETHUSD	ETH	1947.025	2021-07-16 05:00:01
## 3	BTCUSD	BTC	31916.240	2021-07-16 05:00:00
## 4	ETHUSD	ETH	1949.451	2021-07-16 04:00:01
## ...	...	...	...	...
## 15244	BTCUSD	BTC	11844.000	2020-08-17 04:03:55
## 15245	BTCUSD	BTC	11855.070	2020-08-17 03:03:54

```
## 15246 BTCUSD BTC 11838.670 2020-08-17 02:04:02
## 15247 BTCUSD BTC 11825.050 2020-08-17 01:03:53
## 15248 BTCUSD BTC 11925.450 2020-08-17 00:03:56
##
## [15249 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    1928.872  lower 50th percentile of prices
## 1          BTC   31804.460  upper 50th percentile of prices
## 2          ETH    1947.025  lower 50th percentile of prices
## 3          BTC   31916.240  upper 50th percentile of prices
## 4          ETH    1949.451  lower 50th percentile of prices
## ...         ...         ...
## 15244       BTC   11844.000  upper 50th percentile of prices
## 15245       BTC   11855.070  upper 50th percentile of prices
## 15246       BTC   11838.670  upper 50th percentile of prices
## 15247       BTC   11825.050  upper 50th percentile of prices
## 15248       BTC   11925.450  upper 50th percentile of prices
##
## [15249 rows x 3 columns]
```