

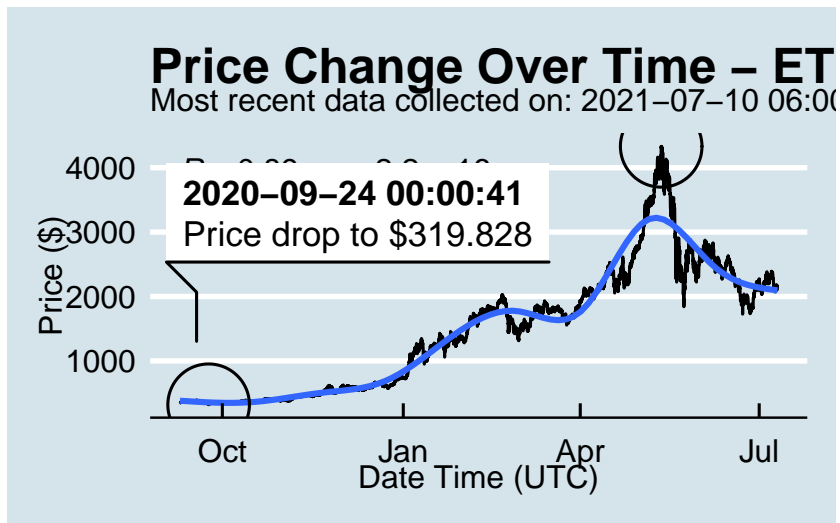
## R Markdown Output

### 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	2114.555	2021-07-10 06:00:01
## 1	BTCUSD	BTC	33653.860	2021-07-10 06:00:00
## 2	BTCUSD	BTC	33651.580	2021-07-10 05:00:01
## 3	ETHUSD	ETH	2107.891	2021-07-10 05:00:01
## 4	ETHUSD	ETH	2132.825	2021-07-10 04:00:01
## ...	...	...	...	...
## 15101	BTCUSD	BTC	11372.920	2020-08-12 00:03:55
## 15102	BTCUSD	BTC	11868.320	2020-08-11 03:03:52

```
## 15103 BTCUSD BTC 11900.900 2020-08-11 02:03:53
## 15104 BTCUSD BTC 11863.170 2020-08-11 01:03:53
## 15105 BTCUSD BTC 11906.130 2020-08-11 00:03:49
##
## [15106 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    2114.555  lower 50th percentile of prices
## 1      BTC   33653.860  upper 50th percentile of prices
## 2      BTC   33651.580  upper 50th percentile of prices
## 3      ETH    2107.891  lower 50th percentile of prices
## 4      ETH    2132.825  lower 50th percentile of prices
## ...      ...         ...                ...
## 15101   BTC    11372.920  upper 50th percentile of prices
## 15102   BTC    11868.320  upper 50th percentile of prices
## 15103   BTC    11900.900  upper 50th percentile of prices
## 15104   BTC    11863.170  upper 50th percentile of prices
## 15105   BTC    11906.130  upper 50th percentile of prices
##
## [15106 rows x 3 columns]
```