

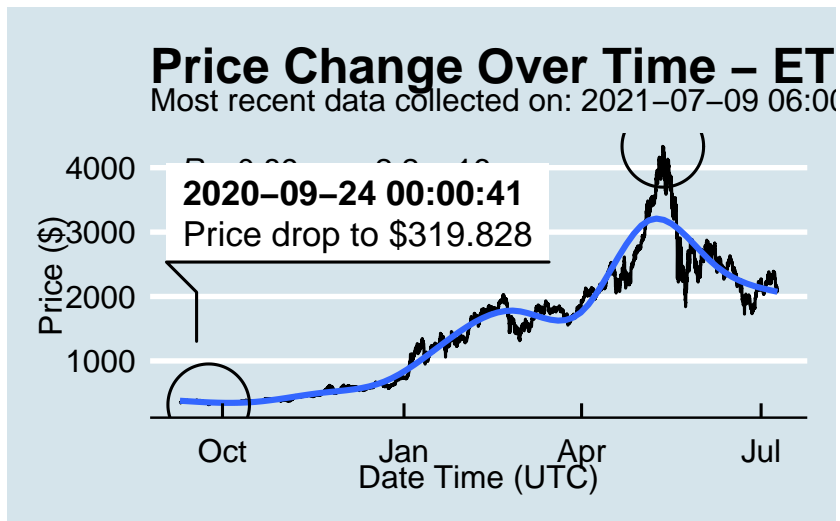
R Markdown Output

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	BTCUSD	BTC	32974.920	2021-07-09 06:00:01
## 1	ETHUSD	ETH	2137.489	2021-07-09 06:00:01
## 2	BTCUSD	BTC	33020.580	2021-07-09 05:00:01
## 3	ETHUSD	ETH	2140.297	2021-07-09 05:00:01
## 4	ETHUSD	ETH	2120.626	2021-07-09 04:00:01
##
## 15077	BTCUSD	BTC	11906.130	2020-08-11 00:03:49
## 15078	BTCUSD	BTC	11993.880	2020-08-10 07:03:48

```
## 15079 BTCUSD BTC 11972.900 2020-08-10 06:03:50
## 15080 BTCUSD BTC 11985.890 2020-08-10 05:03:48
## 15081 BTCUSD BTC 11997.470 2020-08-10 04:32:55
##
## [15082 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      BTC    32974.920  upper 50th percentile of prices
## 1      ETH     2137.489  lower 50th percentile of prices
## 2      BTC    33020.580  upper 50th percentile of prices
## 3      ETH     2140.297  lower 50th percentile of prices
## 4      ETH     2120.626  lower 50th percentile of prices
## ...      ...          ...                ...
## 15077    BTC    11906.130  upper 50th percentile of prices
## 15078    BTC    11993.880  upper 50th percentile of prices
## 15079    BTC    11972.900  upper 50th percentile of prices
## 15080    BTC    11985.890  upper 50th percentile of prices
## 15081    BTC    11997.470  upper 50th percentile of prices
##
## [15082 rows x 3 columns]
```