

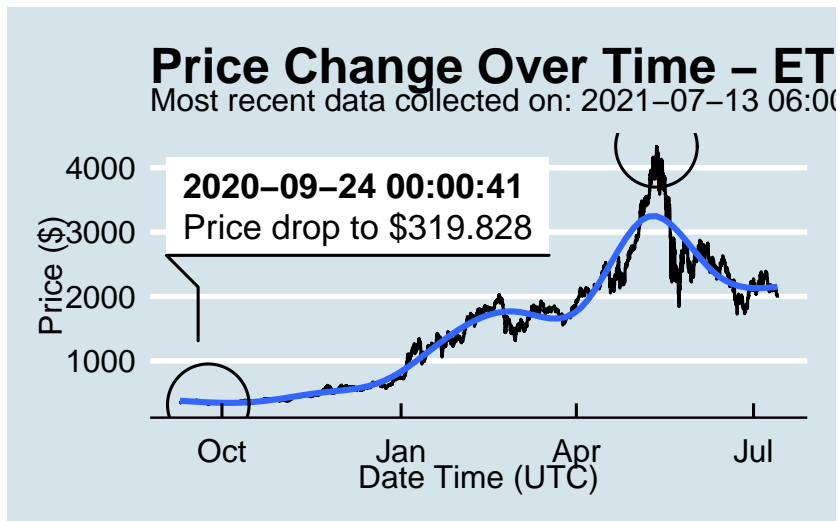
R Markdown Output

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	1982.230	2021-07-13 06:00:01
## 1	BTCUSD	BTC	32825.540	2021-07-13 06:00:00
## 2	ETHUSD	ETH	2024.858	2021-07-13 05:00:01
## 3	BTCUSD	BTC	33140.010	2021-07-13 05:00:00
## 4	ETHUSD	ETH	2030.624	2021-07-13 04:00:01
##
## 15172	BTCUSD	BTC	11747.010	2020-08-14 04:03:56
## 15173	BTCUSD	BTC	11722.060	2020-08-14 03:03:55

```
## 15174 BTCUSD BTC 11761.120 2020-08-14 02:04:04
## 15175 BTCUSD BTC 11719.280 2020-08-14 01:03:54
## 15176 BTCUSD BTC 11827.080 2020-08-14 00:03:56
##
## [15177 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    1982.230  lower 50th percentile of prices
## 1      BTC   32825.540  upper 50th percentile of prices
## 2      ETH    2024.858  lower 50th percentile of prices
## 3      BTC   33140.010  upper 50th percentile of prices
## 4      ETH    2030.624  lower 50th percentile of prices
## ...      ...         ...                ...
## 15172   BTC   11747.010  upper 50th percentile of prices
## 15173   BTC   11722.060  upper 50th percentile of prices
## 15174   BTC   11761.120  upper 50th percentile of prices
## 15175   BTC   11719.280  upper 50th percentile of prices
## 15176   BTC   11827.080  upper 50th percentile of prices
##
## [15177 rows x 3 columns]
```