

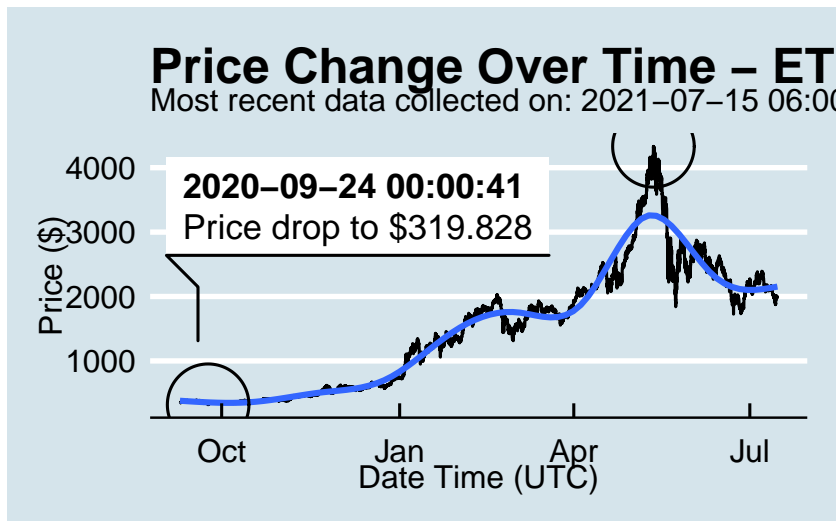
R Markdown Output

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	1964.267	2021-07-15 06:00:01
## 1	BTCUSD	BTC	32583.050	2021-07-15 06:00:00
## 2	BTCUSD	BTC	32673.000	2021-07-15 05:00:01
## 3	ETHUSD	ETH	1973.606	2021-07-15 05:00:01
## 4	BTCUSD	BTC	32651.650	2021-07-15 04:00:01
##
## 15220	BTCUSD	BTC	11921.180	2020-08-16 04:03:55
## 15221	BTCUSD	BTC	11877.910	2020-08-16 03:03:52

```
## 15222 BTCUSD BTC 11875.600 2020-08-16 02:04:00
## 15223 BTCUSD BTC 11822.170 2020-08-16 01:04:00
## 15224 BTCUSD BTC 11860.060 2020-08-16 00:03:57
##
## [15225 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    1964.267  lower 50th percentile of prices
## 1      BTC   32583.050  upper 50th percentile of prices
## 2      BTC   32673.000  upper 50th percentile of prices
## 3      ETH    1973.606  lower 50th percentile of prices
## 4      BTC   32651.650  upper 50th percentile of prices
## ...      ...         ...                ...
## 15220    BTC   11921.180  upper 50th percentile of prices
## 15221    BTC   11877.910  upper 50th percentile of prices
## 15222    BTC   11875.600  upper 50th percentile of prices
## 15223    BTC   11822.170  upper 50th percentile of prices
## 15224    BTC   11860.060  upper 50th percentile of prices
##
## [15225 rows x 3 columns]
```