

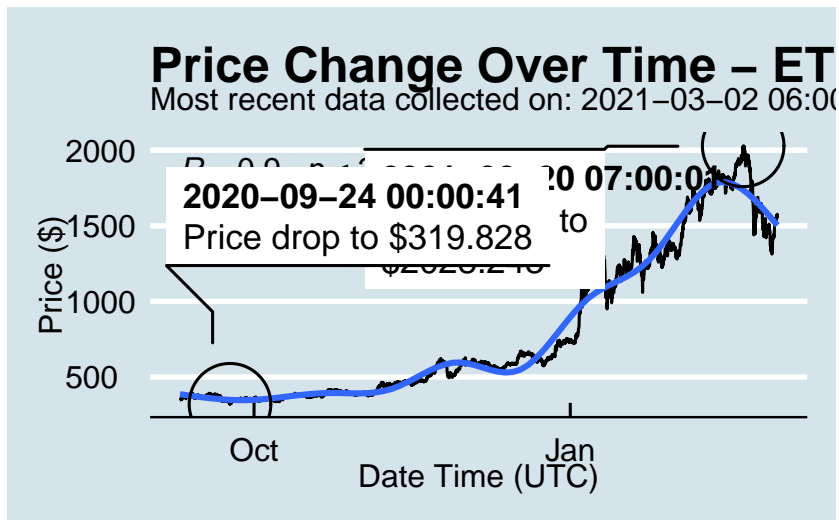
R Markdown Output

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	48680.590	2021-03-02 06:00:01
## 1	ETHUSD	ETH	1556.906	2021-03-02 06:00:01
## 2	BTCUSD	BTC	49141.460	2021-03-02 05:00:01
## 3	ETHUSD	ETH	1576.133	2021-03-02 05:00:01
## 4	BTCUSD	BTC	48960.000	2021-03-02 04:00:01
##
## 8913	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
## 8914	BTCUSD	BTC	11985.890	2020-08-10 05:03:48
## 8915	BTCUSD	BTC	11997.470	2020-08-10 04:32:55
## 8916	BTCUSD	BTC	10686.880	NaT

```
## 8917  ETHUSD    ETH      357.844      NaT
##
## [8918 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    48680.590  upper 50th percentile of prices
## 1      ETH     1556.906  lower 50th percentile of prices
## 2      BTC    49141.460  upper 50th percentile of prices
## 3      ETH     1576.133  lower 50th percentile of prices
## 4      BTC    48960.000  upper 50th percentile of prices
## ...     ...           ...               ...
## 8913     BTC    11972.900  upper 50th percentile of prices
## 8914     BTC    11985.890  upper 50th percentile of prices
## 8915     BTC    11997.470  upper 50th percentile of prices
## 8916     BTC    10686.880  upper 50th percentile of prices
## 8917     ETH      357.844  lower 50th percentile of prices
##
## [8918 rows x 3 columns]
```