

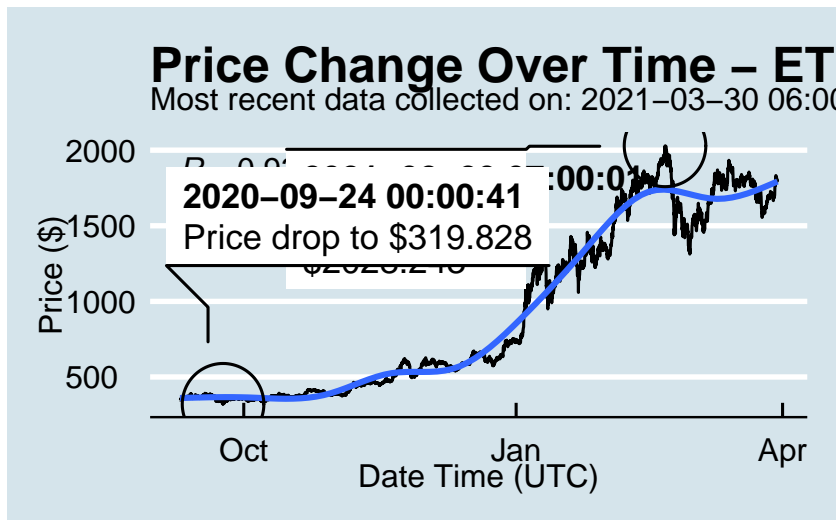
R Markdown Output

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	57679.650	2021-03-30 06:00:01
## 1	ETHUSD	ETH	1807.085	2021-03-30 06:00:01
## 2	BTCUSD	BTC	57586.000	2021-03-30 05:00:01
## 3	ETHUSD	ETH	1802.569	2021-03-30 05:00:01
## 4	BTCUSD	BTC	57182.030	2021-03-30 04:00:01
##
## 10253	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
## 10254	BTCUSD	BTC	11985.890	2020-08-10 05:03:48
## 10255	BTCUSD	BTC	11997.470	2020-08-10 04:32:55
## 10256	BTCUSD	BTC	10686.880	NaT

```
## 10257 ETHUSD ETH 357.844 NaT
##
## [10258 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    57679.650  upper 50th percentile of prices
## 1      ETH     1807.085  lower 50th percentile of prices
## 2      BTC    57586.000  upper 50th percentile of prices
## 3      ETH     1802.569  lower 50th percentile of prices
## 4      BTC    57182.030  upper 50th percentile of prices
## ...      ...          ...                ...
## 10253    BTC    11972.900  upper 50th percentile of prices
## 10254    BTC    11985.890  upper 50th percentile of prices
## 10255    BTC    11997.470  upper 50th percentile of prices
## 10256    BTC    10686.880  upper 50th percentile of prices
## 10257    ETH      357.844  lower 50th percentile of prices
##
## [10258 rows x 3 columns]
```