

## R Markdown Output

Last run on: 2021-07-01 06:12:32

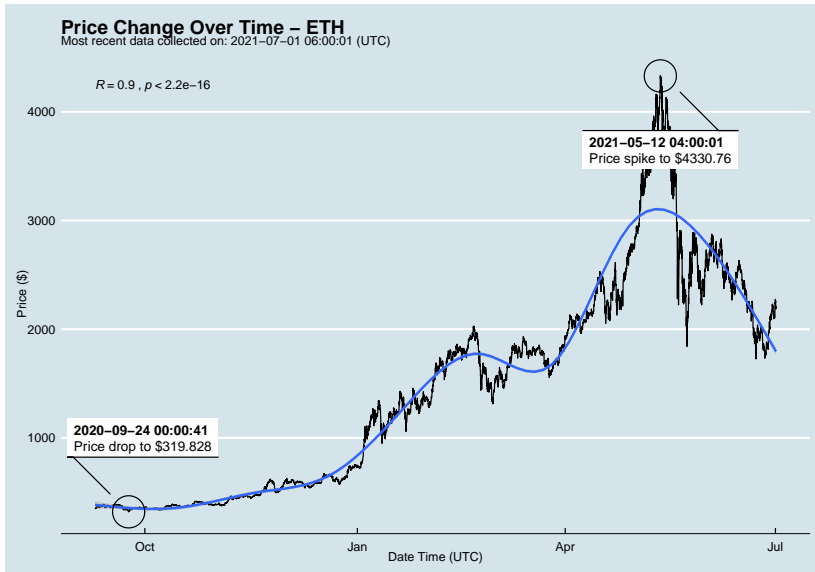
2021-07-01 06:12:32

# 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	2216.146	2021-07-01 06:00:01
## 1	BTCUSD	BTC	34335.630	2021-07-01 06:00:00
## 2	ETHUSD	ETH	2209.507	2021-07-01 05:00:01
## 3	BTCUSD	BTC	34337.530	2021-07-01 05:00:00
## 4	ETHUSD	ETH	2185.553	2021-07-01 04:00:01
## ...	...	...	...	...
## 14711	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
## 14712	BTCUSD	BTC	11985.890	2020-08-10 05:03:48
## 14713	BTCUSD	BTC	11997.470	2020-08-10 04:32:55
## 14714	BTCUSD	BTC	10686.880	NaT
## 14715	ETHUSD	ETH	357.844	NaT

## 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 price'),
                                  'lower 50th percentile of price')
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]
```

	##	symbol	ask_1_price	price_percentile
## 0	0	ETH	2216.146	lower 50th percentile of price
## 1	1	BTC	34335.630	upper 50th percentile of price
## 2	2	ETH	2209.507	lower 50th percentile of price
## 3	3	BTC	34337.530	upper 50th percentile of price
## 4	4	ETH	2185.553	lower 50th percentile of price