

# R Markdown Output

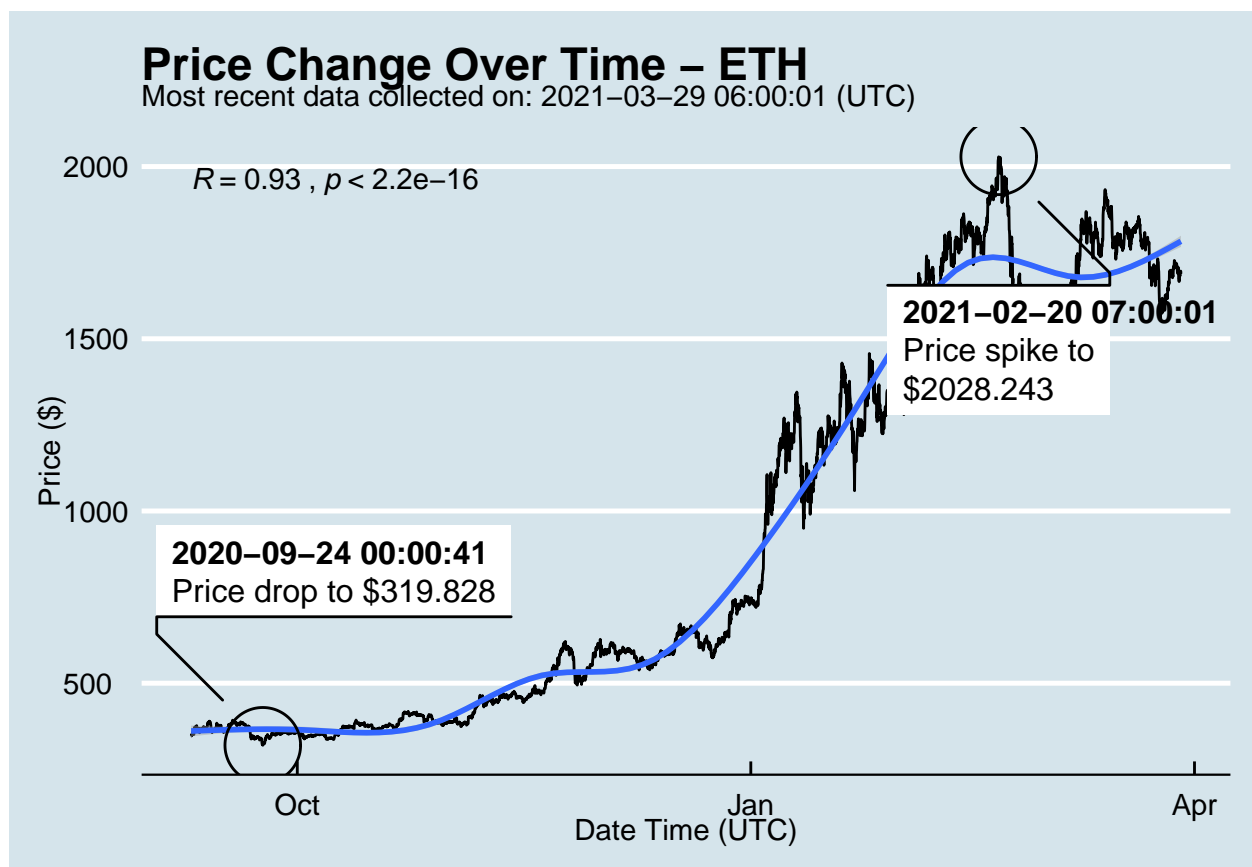
Last run on: 2021-03-29 06:18:06

## 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    55040.290 2021-03-29 06:00:01
## 1      ETHUSD   ETH     1688.805 2021-03-29 06:00:01
## 2      ETHUSD   ETH     1696.581 2021-03-29 05:00:01
## 3      BTCUSD   BTC    55311.120 2021-03-29 05:00:00
## 4      BTCUSD   BTC    55360.000 2021-03-29 04:00:01
## ...      ...    ...          ...
## 10205 BTCUSD   BTC    11972.900 2020-08-10 06:03:50
## 10206 BTCUSD   BTC    11985.890 2020-08-10 05:03:48
## 10207 BTCUSD   BTC    11997.470 2020-08-10 04:32:55
## 10208 BTCUSD   BTC     10686.880                NaT
## 10209 ETHUSD   ETH       357.844                NaT
##
## [10210 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    55040.290  upper 50th percentile of prices
## 1           ETH     1688.805  lower 50th percentile of prices
## 2           ETH     1696.581  lower 50th percentile of prices
## 3           BTC    55311.120  upper 50th percentile of prices
## 4           BTC    55360.000  upper 50th percentile of prices
## ...      ...    ...
## 10205        BTC    11972.900  upper 50th percentile of prices
## 10206        BTC    11985.890  upper 50th percentile of prices
## 10207        BTC    11997.470  upper 50th percentile of prices
## 10208        BTC     10686.880  upper 50th percentile of prices
## 10209        ETH       357.844  lower 50th percentile of prices
##
## [10210 rows x 3 columns]
```