

# R Markdown Output

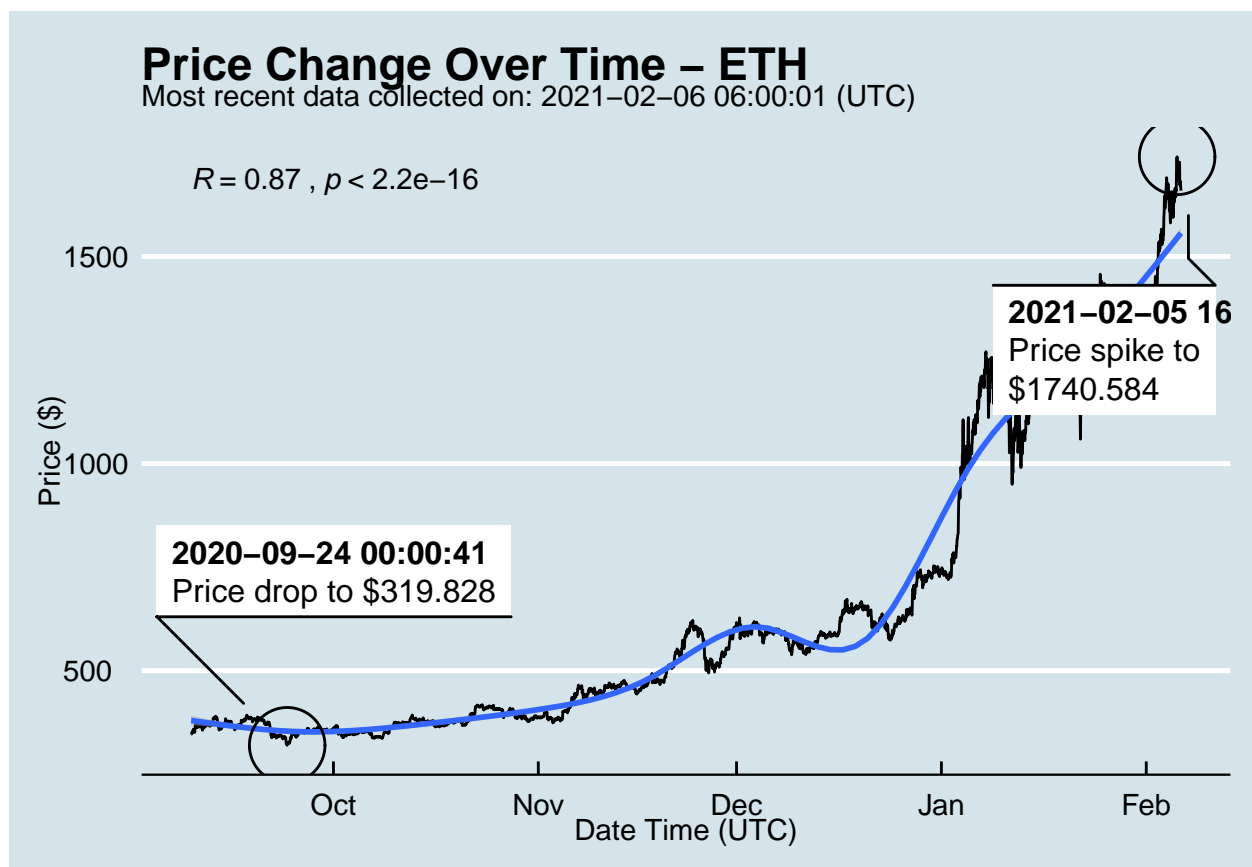
Last run on: 2021-02-06 06:29:17

## 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      1658.848 2021-02-06 06:00:01
## 1    BTCUSD    BTC      39019.140 2021-02-06 06:00:00
## 2    ETHUSD    ETH      1669.399 2021-02-06 05:00:01
## 3    BTCUSD    BTC      39182.540 2021-02-06 05:00:00
## 4    ETHUSD    ETH      1681.316 2021-02-06 04:00:01
## ...      ...      ...          ...
## 7761   BTCUSD    BTC      11972.900 2020-08-10 06:03:50
## 7762   BTCUSD    BTC      11985.890 2020-08-10 05:03:48
## 7763   BTCUSD    BTC      11997.470 2020-08-10 04:32:55
## 7764   BTCUSD    BTC      10686.880                NaT
## 7765   ETHUSD    ETH        357.844                NaT
##
## [7766 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      1658.848  lower 50th percentile of prices
## 1          BTC     39019.140  upper 50th percentile of prices
## 2          ETH      1669.399  lower 50th percentile of prices
## 3          BTC     39182.540  upper 50th percentile of prices
## 4          ETH      1681.316  lower 50th percentile of prices
## ...      ...      ...
## 7761         BTC     11972.900  upper 50th percentile of prices
## 7762         BTC     11985.890  upper 50th percentile of prices
## 7763         BTC     11997.470  upper 50th percentile of prices
## 7764         BTC     10686.880  upper 50th percentile of prices
## 7765         ETH        357.844  lower 50th percentile of prices
##
## [7766 rows x 3 columns]
```