

# R Markdown Output

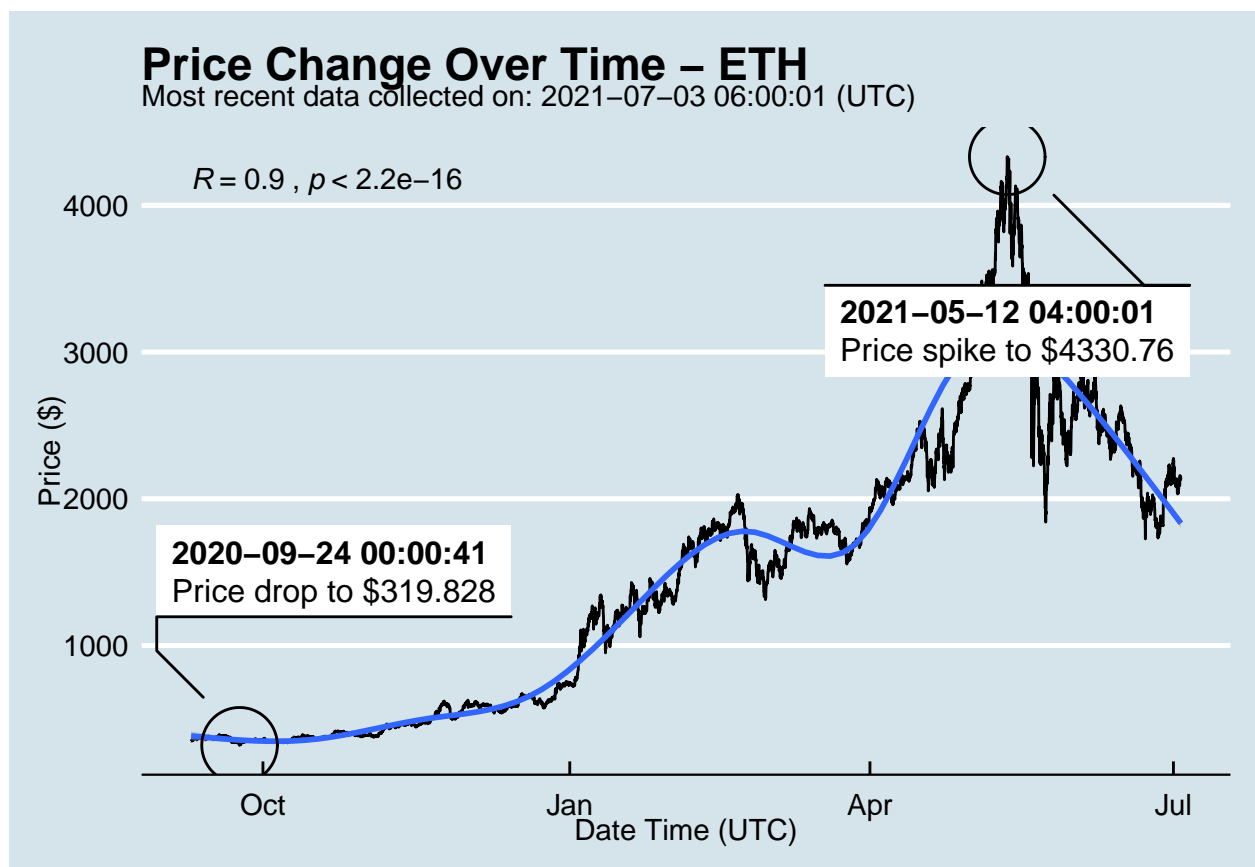
Last run on: 2021-07-03 06:12:12

## 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    2147.049 2021-07-03 06:00:01
## 1      BTCUSD   BTC   33712.780 2021-07-03 06:00:00
## 2      ETHUSD   ETH    2139.500 2021-07-03 05:00:01
## 3      BTCUSD   BTC   33674.690 2021-07-03 05:00:00
## 4      ETHUSD   ETH    2131.294 2021-07-03 04:00:01
## ...      ...    ...      ...      ...
## 14807 BTCUSD   BTC   11972.900 2020-08-10 06:03:50
## 14808 BTCUSD   BTC   11985.890 2020-08-10 05:03:48
## 14809 BTCUSD   BTC   11997.470 2020-08-10 04:32:55
## 14810 BTCUSD   BTC   10686.880          NaT
## 14811 ETHUSD   ETH     357.844          NaT
##
## [14812 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    2147.049  lower 50th percentile of prices
## 1           BTC   33712.780  upper 50th percentile of prices
## 2           ETH    2139.500  lower 50th percentile of prices
## 3           BTC   33674.690  upper 50th percentile of prices
## 4           ETH    2131.294  lower 50th percentile of prices
## ...      ...    ...      ...
## 14807        BTC   11972.900  upper 50th percentile of prices
## 14808        BTC   11985.890  upper 50th percentile of prices
## 14809        BTC   11997.470  upper 50th percentile of prices
## 14810        BTC   10686.880  upper 50th percentile of prices
## 14811        ETH     357.844  lower 50th percentile of prices
##
## [14812 rows x 3 columns]
```