# R Markdown Output

Last run on: 2020-12-29 06:29:44

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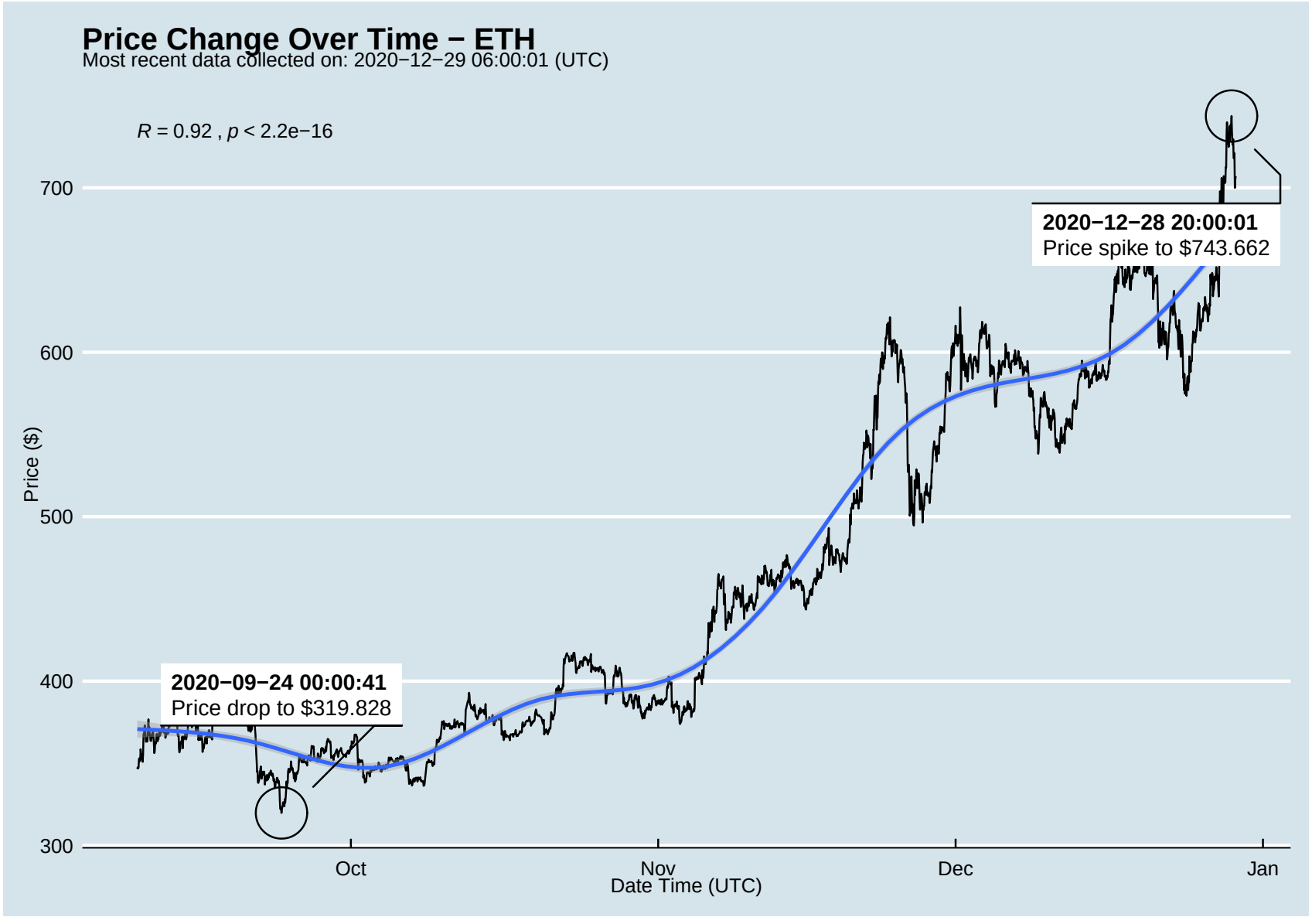
# Overview

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    26438.680 2020-12-29 06:00:01
## 1      ETHUSD    ETH      707.059 2020-12-29 06:00:01
## 2      BTCUSD    BTC    26479.250 2020-12-29 05:00:01
## 3      ETHUSD    ETH      704.794 2020-12-29 05:00:01
## 4      ETHUSD    ETH      699.948 2020-12-29 04:00:01
## ...       ...    ...          ...                 ...
## 5889   BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 5890   BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 5891   BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 5892   BTCUSD    BTC    10686.880                 NaT
## 5893   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_p
                                 '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_percentil
## 0        BTC    26438.680  upper 50th percentile of price
## 1        ETH      707.059  lower 50th percentile of price
## 2        BTC    26479.250  upper 50th percentile of price
## 3        ETH      704.794  lower 50th percentile of price
## 4        ETH      699.948  lower 50th percentile of price
```