

## R Markdown Output

Last run on: 2021-01-02 06:31:05

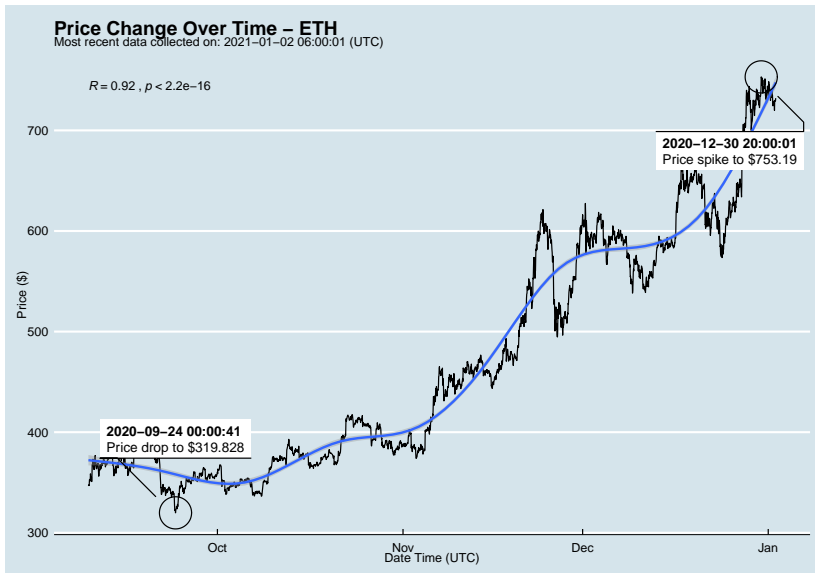
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# Overview

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      ETHUSD    ETH        732.083 2021-01-02 06:00:01
## 1      BTCUSD    BTC       29600.000 2021-01-02 06:00:00
## 2      ETHUSD    ETH        729.259 2021-01-02 05:00:01
## 3      BTCUSD    BTC       29348.950 2021-01-02 05:00:00
## 4      ETHUSD    ETH        730.164 2021-01-02 04:00:01
## ...      ...      ...           ...           ...
## 6081  BTCUSD    BTC       11972.900 2020-08-10 06:03:50
## 6082  BTCUSD    BTC       11985.890 2020-08-10 05:03:48
## 6083  BTCUSD    BTC       11997.470 2020-08-10 04:32:55
## 6084  BTCUSD    BTC        10686.880                NaT
## 6085  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_percentile
## 0	ETH	732.083	lower 50th percentile of price
## 1	BTC	29600.000	upper 50th percentile of price
## 2	ETH	729.259	lower 50th percentile of price
## 3	BTC	29348.950	upper 50th percentile of price
## 4	ETH	730.164	lower 50th percentile of price