

R Markdown Output

Last run on: 2021-03-03 06:27:45

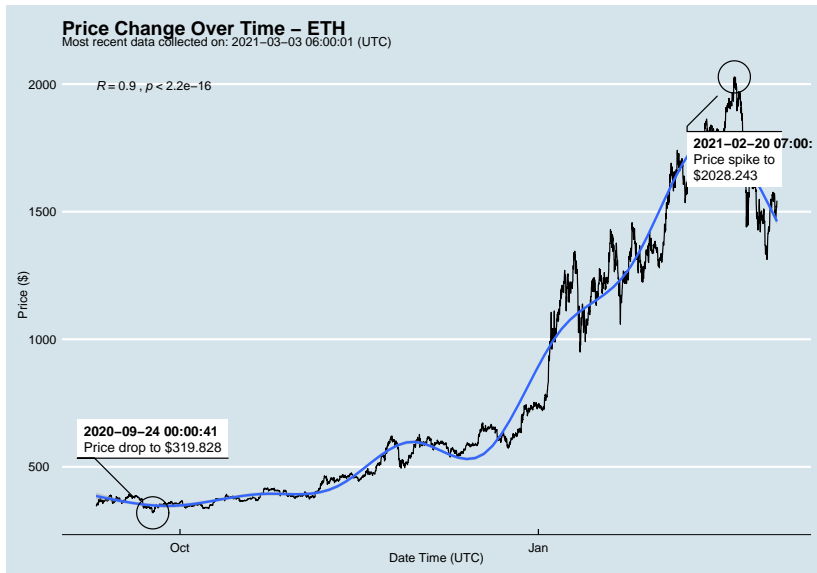
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Overview

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    49080.000 2021-03-03 06:00:01
## 1      ETHUSD    ETH     1543.154 2021-03-03 06:00:01
## 2      BTCUSD    BTC    49104.600 2021-03-03 05:00:01
## 3      ETHUSD    ETH     1539.917 2021-03-03 05:00:01
## 4      BTCUSD    BTC    48703.070 2021-03-03 04:00:01
## ...      ...      ...      ...      ...
## 8961 BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 8962 BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 8963 BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 8964 BTCUSD    BTC    10686.880                NaT
## 8965 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 | BTC | 49080.000 | upper 50th percentile of price |
| ## 1 | ETH | 1543.154 | lower 50th percentile of price |
| ## 2 | BTC | 49104.600 | upper 50th percentile of price |
| ## 3 | ETH | 1539.917 | lower 50th percentile of price |
| ## 4 | BTC | 48703.070 | upper 50th percentile of price |