

R Markdown Output

Last run on: 2021-03-09 06:28:22

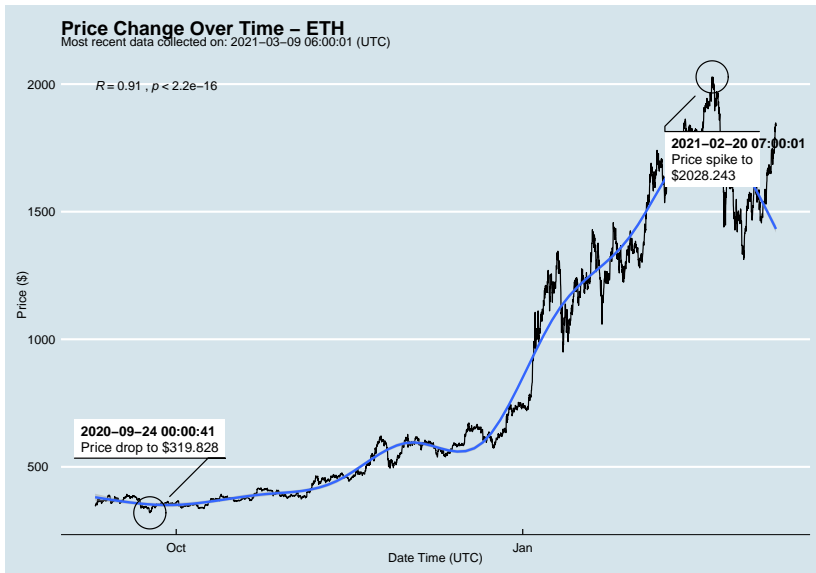
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Overview

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    54245.940 2021-03-09 06:00:01
## 1      ETHUSD   ETH     1840.860 2021-03-09 06:00:01
## 2      BTCUSD   BTC    53678.290 2021-03-09 05:00:01
## 3      ETHUSD   ETH     1836.104 2021-03-09 05:00:01
## 4      ETHUSD   ETH     1847.999 2021-03-09 04:00:01
## ...      ...    ...           ...           ...
## 9249 BTCUSD   BTC    11972.900 2020-08-10 06:03:50
## 9250 BTCUSD   BTC    11985.890 2020-08-10 05:03:48
## 9251 BTCUSD   BTC    11997.470 2020-08-10 04:32:55
## 9252 BTCUSD   BTC     10686.880                NaT
## 9253 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_price'],
                                                  50,
                                                  '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 | 54245.940 | upper 50th percentile of price |
| | ## 1 | ETH | 1840.860 | lower 50th percentile of price |
| | ## 2 | BTC | 53678.290 | upper 50th percentile of price |
| | ## 3 | ETH | 1836.104 | lower 50th percentile of price |
| | ## 4 | ETH | 1847.899 | lower 50th percentile of price |