

R Markdown Output

Last run on: 2021-02-19 06:26:57

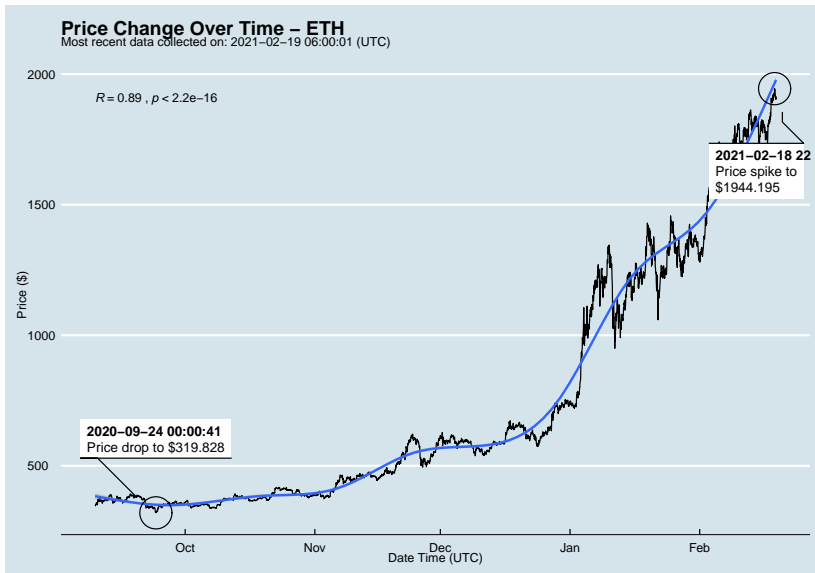
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Overview

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      51522.570 2021-02-19 06:00:01
## 1      ETHUSD   ETH       1914.510 2021-02-19 06:00:01
## 2      ETHUSD   ETH       1903.281 2021-02-19 05:00:01
## 3      BTCUSD   BTC      51167.070 2021-02-19 05:00:00
## 4      BTCUSD   BTC      51256.210 2021-02-19 04:00:01
## ...      ...      ...           ...           ...
## 8385 BTCUSD   BTC      11972.900 2020-08-10 06:03:50
## 8386 BTCUSD   BTC      11985.890 2020-08-10 05:03:48
## 8387 BTCUSD   BTC      11997.470 2020-08-10 04:32:55
## 8388 BTCUSD   BTC      10686.880                NaT
## 8389 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'],
                                                  'upper 50th percentile of price'),
                                  '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 | 51522.570 | upper 50th percentile of price |
| | ## 1 | ETH | 1914.510 | lower 50th percentile of price |
| | ## 2 | ETH | 1903.281 | lower 50th percentile of price |
| | ## 3 | BTC | 51167.070 | upper 50th percentile of price |
| | ## 4 | BTC | 51256.210 | upper 50th percentile of price |