

R Markdown Output

Last run on: 2021-03-14 06:27:24

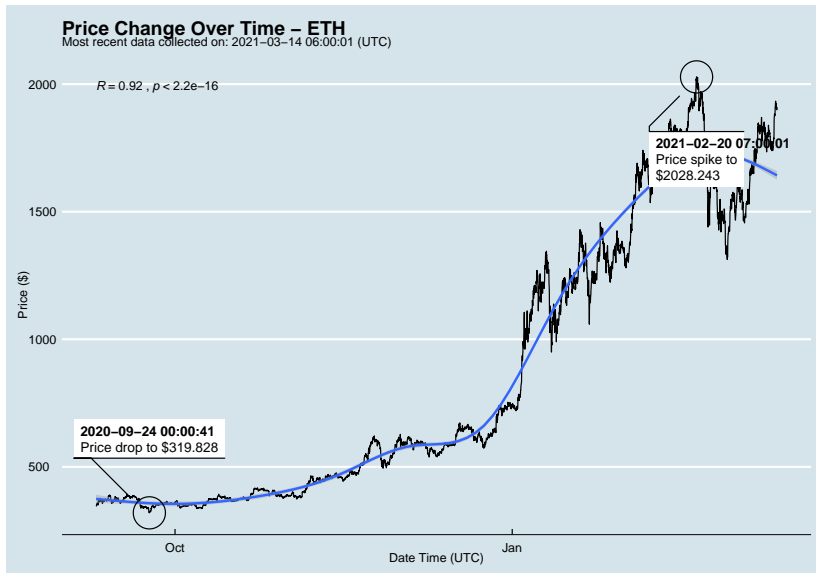
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Overview

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      61012.580 2021-03-14 06:00:01
## 1      ETHUSD   ETH       1897.343 2021-03-14 06:00:01
## 2      ETHUSD   ETH       1902.552 2021-03-14 05:00:01
## 3      BTCUSD   BTC      61226.850 2021-03-14 05:00:00
## 4      ETHUSD   ETH       1909.832 2021-03-14 04:00:01
## ...      ...      ...           ...           ...
## 9487 BTCUSD   BTC      11972.900 2020-08-10 06:03:50
## 9488 BTCUSD   BTC      11985.890 2020-08-10 05:03:48
## 9489 BTCUSD   BTC      11997.470 2020-08-10 04:32:55
## 9490 BTCUSD   BTC      10686.880                NaT
## 9491 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	61012.580	upper 50th percentile of price
	## 1	ETH	1897.343	lower 50th percentile of price
	## 2	ETH	1902.552	lower 50th percentile of price
	## 3	BTC	61226.850	upper 50th percentile of price
	## 4	ETH	1909.832	lower 50th percentile of price