

## R Markdown Output

Last run on: 2021-03-11 06:27:52

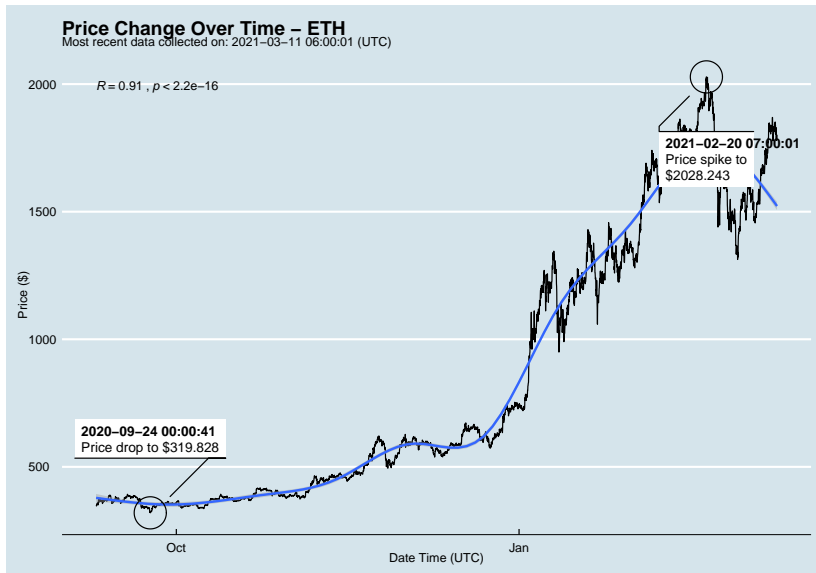
2021-03-11 06:27:52

# 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      55270.010 2021-03-11 06:00:01
## 1      ETHUSD   ETH       1778.837 2021-03-11 06:00:01
## 2      ETHUSD   ETH       1800.497 2021-03-11 05:00:01
## 3      BTCUSD   BTC      55828.000 2021-03-11 05:00:00
## 4      BTCUSD   BTC      55972.000 2021-03-11 04:00:01
## ...      ...      ...           ...           ...
## 9345 BTCUSD   BTC      11972.900 2020-08-10 06:03:50
## 9346 BTCUSD   BTC      11985.890 2020-08-10 05:03:48
## 9347 BTCUSD   BTC      11997.470 2020-08-10 04:32:55
## 9348 BTCUSD   BTC      10686.880                NaT
## 9349 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	0	BTC	55270.010	upper 50th percentile of price
## 1	1	ETH	1778.837	lower 50th percentile of price
## 2	2	ETH	1800.497	lower 50th percentile of price
## 3	3	BTC	55828.000	upper 50th percentile of price
## 4	4	BTC	55972.000	upper 50th percentile of price