

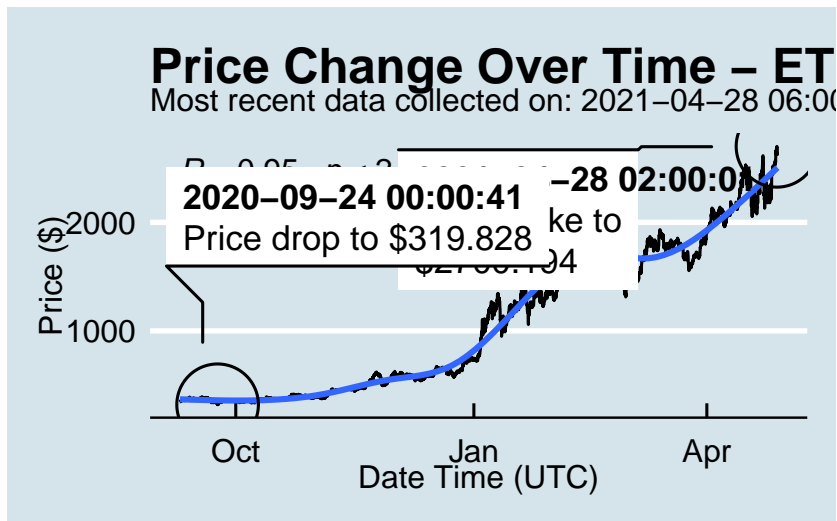
## R Markdown Output

### 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	ETHUSD	ETH	2616.581	2021-04-28 06:00:01
## 1	BTCUSD	BTC	54594.920	2021-04-28 06:00:00
## 2	ETHUSD	ETH	2630.857	2021-04-28 05:00:01
## 3	BTCUSD	BTC	54826.250	2021-04-28 05:00:00
## 4	ETHUSD	ETH	2628.248	2021-04-28 04:00:01
## ...	...	...	...	...
## 11643	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
## 11644	BTCUSD	BTC	11985.890	2020-08-10 05:03:48

```
## 11645 BTCUSD BTC 11997.470 2020-08-10 04:32:55
## 11646 BTCUSD BTC 10686.880 NaT
## 11647 ETHUSD ETH 357.844 NaT
##
## [11648 rows x 4 columns]
```

### *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 prices',
                                'lower 50th percentile of prices')
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]

##      symbol  ask_1_price  price_percentile
## 0      ETH    2616.581  lower 50th percentile of prices
## 1      BTC   54594.920  upper 50th percentile of prices
## 2      ETH    2630.857  lower 50th percentile of prices
## 3      BTC   54826.250  upper 50th percentile of prices
## 4      ETH    2628.248  lower 50th percentile of prices
## ...      ...          ...
## 11643    BTC   11972.900  upper 50th percentile of prices
## 11644    BTC   11985.890  upper 50th percentile of prices
## 11645    BTC   11997.470  upper 50th percentile of prices
## 11646    BTC   10686.880  upper 50th percentile of prices
## 11647    ETH     357.844  lower 50th percentile of prices
##
## [11648 rows x 3 columns]
```