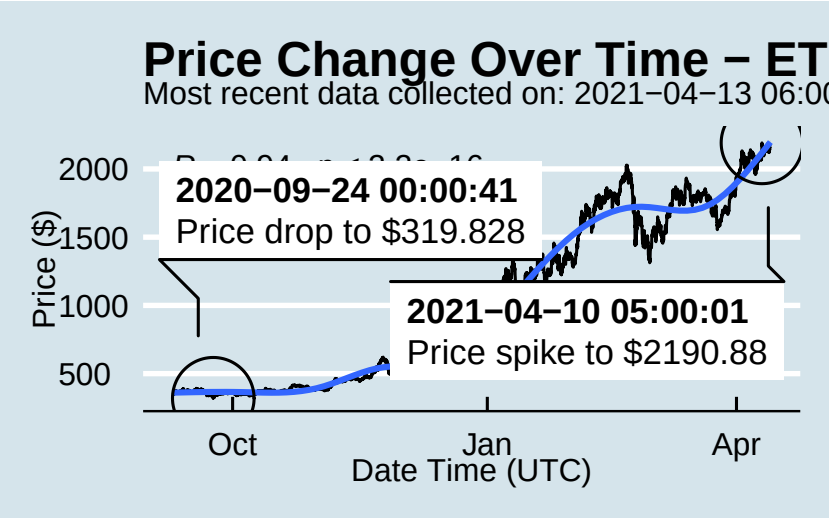
R Markdown Output

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     2163.333 2021-04-13 06:00:01
## 1      BTCUSD    BTC    60664.150 2021-04-13 06:00:00
## 2      ETHUSD    ETH     2164.155 2021-04-13 05:00:01
## 3      BTCUSD    BTC    60589.980 2021-04-13 05:00:00
## 4      BTCUSD    BTC    60473.660 2021-04-13 04:00:01
## ...       ...    ...          ...                 ...
## 10925  BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 10926  BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 10927  BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 10928  BTCUSD    BTC    10686.880                 NaT
```

```
## 10929  ETHUSD    ETH      357.844                 NaT
##
## [10930 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     2163.333  lower 50th percentile of prices
## 1        BTC    60664.150  upper 50th percentile of prices
## 2        ETH     2164.155  lower 50th percentile of prices
## 3        BTC    60589.980  upper 50th percentile of prices
## 4        BTC    60473.660  upper 50th percentile of prices
## ...      ...          ...                              ...
## 10925    BTC    11972.900  upper 50th percentile of prices
## 10926    BTC    11985.890  upper 50th percentile of prices
## 10927    BTC    11997.470  upper 50th percentile of prices
## 10928    BTC    10686.880  upper 50th percentile of prices
## 10929    ETH      357.844  lower 50th percentile of prices
##
## [10930 rows x 3 columns]
```