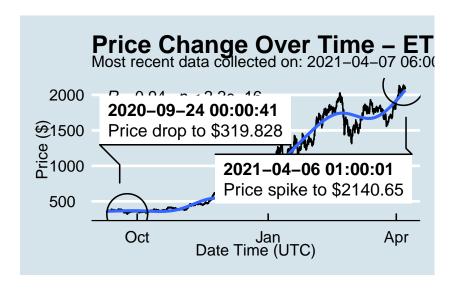
R Markdown Output

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
## 0 ETHUSD ETH 2102.043
## 1 BTCUSD BTC 58280.490
```

##		pair	symbol	ask_1_price	date_t	ime_utc
##	0	ETHUSD	ETH	2102.043	2021-04-07 0	6:00:01
##	1	BTCUSD	BTC	58280.490	2021-04-07 0	6:00:00
##	2	ETHUSD	ETH	2087.308	2021-04-07 0	5:00:01
##	3	BTCUSD	BTC	57620.900	2021-04-07 0	5:00:00
##	4	BTCUSD	BTC	57899.190	2021-04-07 0	4:00:01
##						
##	10637	BTCUSD	BTC	11972.900	2020-08-10 0	6:03:50
##	10638	BTCUSD	BTC	11985.890	2020-08-10 0	5:03:48
##	10639	BTCUSD	BTC	11997.470	2020-08-10 0	4:32:55
##	10640	BTCUSD	BTC	10686.880		NaT

```
## 10641 ETHUSD
                    ETH
                              357.844
                                                       NaT
##
## [10642 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
## O
            ETH
                    2102.043
                              lower 50th percentile of prices
                              upper 50th percentile of prices
## 1
            {\tt BTC}
                   58280.490
                              lower 50th percentile of prices
## 2
            ETH
                    2087.308
                              upper 50th percentile of prices
## 3
            BTC
                   57620.900
## 4
            BTC
                   57899.190
                              upper 50th percentile of prices
## ...
## 10637
                              upper 50th percentile of prices
            BTC
                   11972.900
## 10638
                              upper 50th percentile of prices
            BTC
                   11985.890
## 10639
            BTC
                   11997.470
                              upper 50th percentile of prices
                   10686.880
                              upper 50th percentile of prices
## 10640
            BTC
## 10641
            ETH
                     357.844 lower 50th percentile of prices
##
## [10642 rows x 3 columns]
```