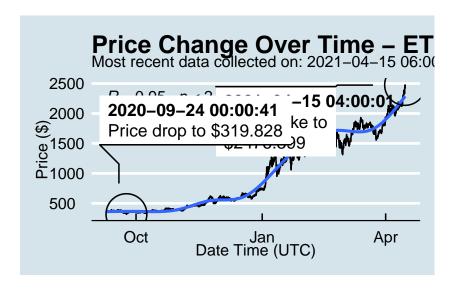
R Markdown Output

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_pri
## 0 BTCUSD BTC 63100.0
## 1 ETHUSD ETH 2470.4
```

##		pair	symbol	ask_1_price	date_time_	utc
##	0	BTCUSD	BTC	63100.000	2021-04-15 06:00	0:01
##	1	ETHUSD	ETH	2470.446	2021-04-15 06:00	0:01
##	2	BTCUSD	BTC	62960.010	2021-04-15 05:00	0:01
##	3	ETHUSD	ETH	2450.361	2021-04-15 05:00	0:01
##	4	BTCUSD	BTC	63050.000	2021-04-15 04:00	0:01
##						
##	11021	BTCUSD	BTC	11972.900	2020-08-10 06:03	3:50
##	11022	BTCUSD	BTC	11985.890	2020-08-10 05:03	3:48
##	11023	BTCUSD	BTC	11997.470	2020-08-10 04:32	2:55
##	11024	BTCUSD	BTC	10686.880		NaT

```
## 11025 ETHUSD
                    ETH
                              357.844
                                                      NaT
##
## [11026 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
           BTC
                   63100.000
                              upper 50th percentile of prices
                              lower 50th percentile of prices
## 1
            ETH
                    2470.446
                              upper 50th percentile of prices
## 2
            BTC
                   62960.010
                              lower 50th percentile of prices
## 3
            ETH
                    2450.361
## 4
            BTC
                   63050.000
                              upper 50th percentile of prices
## ...
## 11021
                              upper 50th percentile of prices
           BTC
                   11972.900
## 11022
                              upper 50th percentile of prices
            BTC
                   11985.890
## 11023
           BTC
                   11997.470
                              upper 50th percentile of prices
## 11024
                   10686.880
                              upper 50th percentile of prices
            BTC
## 11025
            ETH
                     357.844 lower 50th percentile of prices
##
## [11026 rows x 3 columns]
```