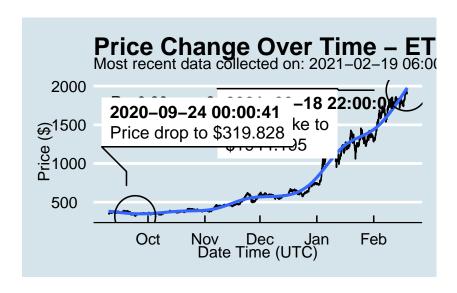
# R Markdown Output

## 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_pric
```

##		pair	symbol	ask_1_price	date_time_utc	
##	0	BTCUSD	BTC	51522.570	2021-02-19 06:00:01	
##	1	ETHUSD	ETH	1914.510	2021-02-19 06:00:01	
##	2	ETHUSD	ETH	1903.281	2021-02-19 05:00:01	
##	3	BTCUSD	BTC	51167.070	2021-02-19 05:00:00	
##	4	BTCUSD	BTC	51256.210	2021-02-19 04:00:01	
##						
##	8385	BTCUSD	BTC	11972.900	2020-08-10 06:03:50	
##	8386	BTCUSD	BTC	11985.890	2020-08-10 05:03:48	
##	8387	BTCUSD	BTC	11997.470	2020-08-10 04:32:55	
##	8388	BTCUSD	BTC	10686.880	NaT	

```
## 8389 ETHUSD
                    ETH
                             357.844
                                                      NaT
##
## [8390 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
                  51522.570 upper 50th percentile of prices
                   1914.510 lower 50th percentile of prices
## 1
           ETH
## 2
           ETH
                   1903.281 lower 50th percentile of prices
                  51167.070 upper 50th percentile of prices
## 3
           BTC
## 4
           BTC
                  51256.210 upper 50th percentile of prices
## ...
           . . .
                  11972.900 upper 50th percentile of prices
## 8385
           BTC
## 8386
                  11985.890 upper 50th percentile of prices
           BTC
## 8387
           BTC
                  11997.470 upper 50th percentile of prices
                  10686.880 upper 50th percentile of prices
## 8388
           BTC
## 8389
           ETH
                    357.844 lower 50th percentile of prices
##
## [8390 rows x 3 columns]
```