

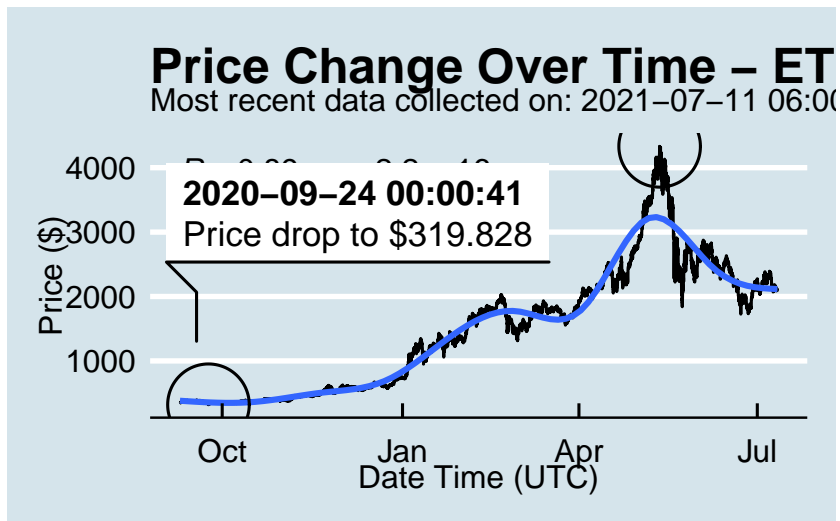
R Markdown Output

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	2099.617	2021-07-11 06:00:01
## 1	BTCUSD	BTC	33579.600	2021-07-11 06:00:00
## 2	ETHUSD	ETH	2094.423	2021-07-11 05:00:01
## 3	BTCUSD	BTC	33463.920	2021-07-11 05:00:00
## 4	ETHUSD	ETH	2091.950	2021-07-11 04:00:01
##
## 15125	BTCUSD	BTC	11573.270	2020-08-13 00:03:52
## 15126	BTCUSD	BTC	11266.550	2020-08-12 03:03:52

```
## 15127 BTCUSD BTC 11331.140 2020-08-12 02:03:56
## 15128 BTCUSD BTC 11346.560 2020-08-12 01:03:56
## 15129 BTCUSD BTC 11372.920 2020-08-12 00:03:55
##
## [15130 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    2099.617  lower 50th percentile of prices
## 1      BTC   33579.600  upper 50th percentile of prices
## 2      ETH    2094.423  lower 50th percentile of prices
## 3      BTC   33463.920  upper 50th percentile of prices
## 4      ETH    2091.950  lower 50th percentile of prices
## ...      ...         ...                ...
## 15125    BTC   11573.270  upper 50th percentile of prices
## 15126    BTC   11266.550  upper 50th percentile of prices
## 15127    BTC   11331.140  upper 50th percentile of prices
## 15128    BTC   11346.560  upper 50th percentile of prices
## 15129    BTC   11372.920  upper 50th percentile of prices
##
## [15130 rows x 3 columns]
```