

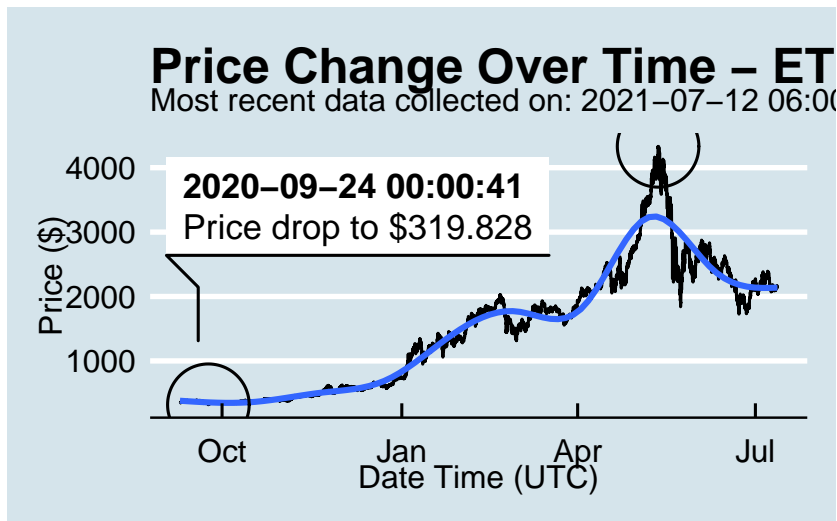
R Markdown Output

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	2151.045	2021-07-12 06:00:01
## 1	BTCUSD	BTC	34344.240	2021-07-12 06:00:00
## 2	ETHUSD	ETH	2149.095	2021-07-12 05:00:01
## 3	BTCUSD	BTC	34301.190	2021-07-12 05:00:00
## 4	ETHUSD	ETH	2164.946	2021-07-12 04:00:01
##
## 15149	BTCUSD	BTC	11827.080	2020-08-14 00:03:56
## 15150	BTCUSD	BTC	11551.860	2020-08-13 03:03:54

```
## 15151 BTCUSD BTC 11605.670 2020-08-13 02:04:01
## 15152 BTCUSD BTC 11633.600 2020-08-13 01:03:53
## 15153 BTCUSD BTC 11573.270 2020-08-13 00:03:52
##
## [15154 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    2151.045  lower 50th percentile of prices
## 1      BTC   34344.240  upper 50th percentile of prices
## 2      ETH    2149.095  lower 50th percentile of prices
## 3      BTC   34301.190  upper 50th percentile of prices
## 4      ETH    2164.946  lower 50th percentile of prices
## ...      ...         ...                ...
## 15149    BTC   11827.080  upper 50th percentile of prices
## 15150    BTC   11551.860  upper 50th percentile of prices
## 15151    BTC   11605.670  upper 50th percentile of prices
## 15152    BTC   11633.600  upper 50th percentile of prices
## 15153    BTC   11573.270  upper 50th percentile of prices
##
## [15154 rows x 3 columns]
```