### R Markdown Output

Last run on: 2020-12-19 06:27:51

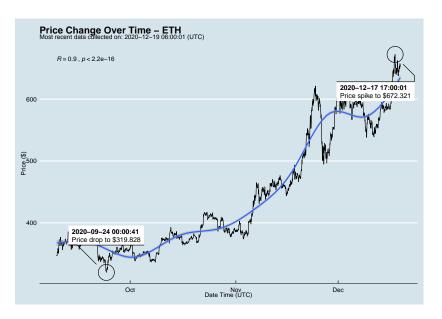
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#### Overview

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 <sub>.</sub>	_time_utc
##	0	ETHUSD	ETH	652.539	2020-12-19	06:00:01
##	1	BTCUSD	BTC	22963.370	2020-12-19	06:00:00
##	2	ETHUSD	ETH	654.543	2020-12-19	05:00:01
##	3	BTCUSD	BTC	23048.690	2020-12-19	05:00:00
##	4	ETHUSD	ETH	654.966	2020-12-19	04:00:01
##						
##	5409	BTCUSD	BTC	11972.900	2020-08-10	06:03:50
##	5410	BTCUSD	BTC	11985.890	2020-08-10	05:03:48
##	5411	BTCUSD	BTC	11997.470	2020-08-10	04:32:55
##	5412	BTCUSD	BTC	10686.880		NaT
##	5413	ETHUSD	ETH	357.844		NaT

# 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\_] 'upper 50th percentile of price 'lower 50th percentile of price # Show modified dataframe:

df[['symbol', 'ask\_1\_price', 'price\_percentile']] ask\_1\_price price\_percenti ## symbol ETH 652.539 lower 50th percentile of price ## 0

22963.370 upper 50th percentile of price ## 1 BTC ETH654.543 lower 50th percentile of price ## 2 ## 3 BTC 23048.690 upper 50th percentile of price ## / ETI 6E1 066 larram EO+h namaan+ila af nmia