### R Markdown Output

Last run on: 2020-12-21 06:26:44

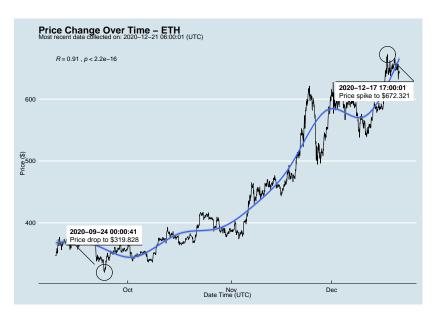
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#### Overview

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	BTCUSD	BTC	23904.010	2020-12-21	06:00:01
##	1	ETHUSD	ETH	641.740	2020-12-21	06:00:01
##	2	ETHUSD	ETH	643.657	2020-12-21	05:00:01
##	3	BTCUSD	BTC	23894.390	2020-12-21	05:00:00
##	4	BTCUSD	BTC	23950.580	2020-12-21	04:00:01
##						
##	5505	BTCUSD	BTC	11972.900	2020-08-10	06:03:50
##	5506	BTCUSD	BTC	11985.890	2020-08-10	05:03:48
##	5507	BTCUSD	BTC	11997.470	2020-08-10	04:32:55
##	5508	BTCUSD	BTC	10686.880		NaT
##	5509	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']] price\_percenti ## symbol ask\_1\_price BTC 23904.010 upper 50th percentile of price ## 0

641.740 lower 50th percentile of price ## 1 ETH ETH 643.657 lower 50th percentile of price ## 2 ## 3 BTC 23894.390 upper 50th percentile of price ## / DTC 220EV E0V unner EO+h nergen+ile of nuice