R Markdown Output

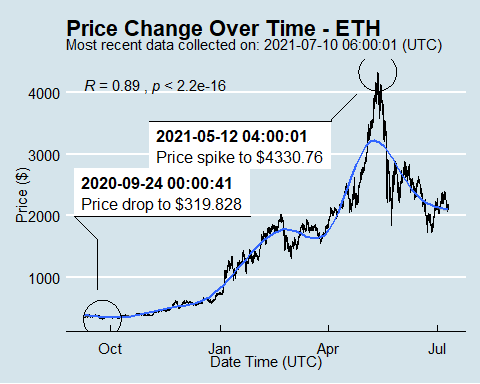
Last run on: 2021-07-10 06:16:20

# 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 2114.555 2021-07-10 06:00:01  
## 1 BTCUSD BTC 33653.860 2021-07-10 06:00:00  
## 2 BTCUSD BTC 33651.580 2021-07-10 05:00:01  
## 3 ETHUSD ETH 2107.891 2021-07-10 05:00:01  
## 4 ETHUSD ETH 2132.825 2021-07-10 04:00:01  
## ... ... ... ... ...  
## 15101 BTCUSD BTC 11372.920 2020-08-12 00:03:55  
## 15102 BTCUSD BTC 11868.320 2020-08-11 03:03:52  
## 15103 BTCUSD BTC 11900.900 2020-08-11 02:03:53  
## 15104 BTCUSD BTC 11863.170 2020-08-11 01:03:53  
## 15105 BTCUSD BTC 11906.130 2020-08-11 00:03:49  
##   
## [15106 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 2114.555 lower 50th percentile of prices  
## 1 BTC 33653.860 upper 50th percentile of prices  
## 2 BTC 33651.580 upper 50th percentile of prices  
## 3 ETH 2107.891 lower 50th percentile of prices  
## 4 ETH 2132.825 lower 50th percentile of prices  
## ... ... ... ...  
## 15101 BTC 11372.920 upper 50th percentile of prices  
## 15102 BTC 11868.320 upper 50th percentile of prices  
## 15103 BTC 11900.900 upper 50th percentile of prices  
## 15104 BTC 11863.170 upper 50th percentile of prices  
## 15105 BTC 11906.130 upper 50th percentile of prices  
##   
## [15106 rows x 3 columns]