R Markdown Output

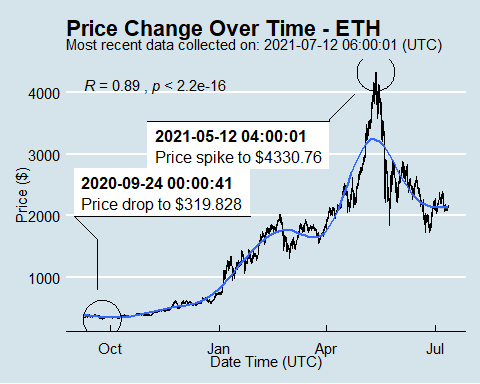
Last run on: 2021-07-12 06:15:26

# 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]