R Markdown Output

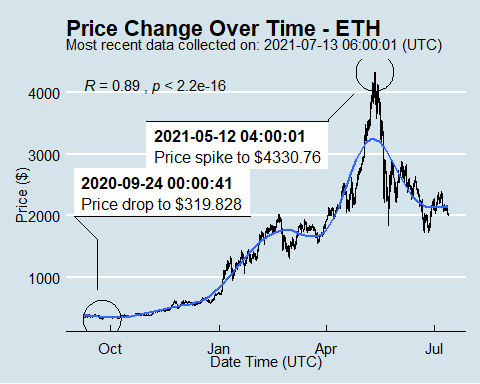
Last run on: 2021-07-13 06:15:24

# 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 1982.230 2021-07-13 06:00:01  
## 1 BTCUSD BTC 32825.540 2021-07-13 06:00:00  
## 2 ETHUSD ETH 2024.858 2021-07-13 05:00:01  
## 3 BTCUSD BTC 33140.010 2021-07-13 05:00:00  
## 4 ETHUSD ETH 2030.624 2021-07-13 04:00:01  
## ... ... ... ... ...  
## 15172 BTCUSD BTC 11747.010 2020-08-14 04:03:56  
## 15173 BTCUSD BTC 11722.060 2020-08-14 03:03:55  
## 15174 BTCUSD BTC 11761.120 2020-08-14 02:04:04  
## 15175 BTCUSD BTC 11719.280 2020-08-14 01:03:54  
## 15176 BTCUSD BTC 11827.080 2020-08-14 00:03:56  
##   
## [15177 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 1982.230 lower 50th percentile of prices  
## 1 BTC 32825.540 upper 50th percentile of prices  
## 2 ETH 2024.858 lower 50th percentile of prices  
## 3 BTC 33140.010 upper 50th percentile of prices  
## 4 ETH 2030.624 lower 50th percentile of prices  
## ... ... ... ...  
## 15172 BTC 11747.010 upper 50th percentile of prices  
## 15173 BTC 11722.060 upper 50th percentile of prices  
## 15174 BTC 11761.120 upper 50th percentile of prices  
## 15175 BTC 11719.280 upper 50th percentile of prices  
## 15176 BTC 11827.080 upper 50th percentile of prices  
##   
## [15177 rows x 3 columns]