R Markdown Output

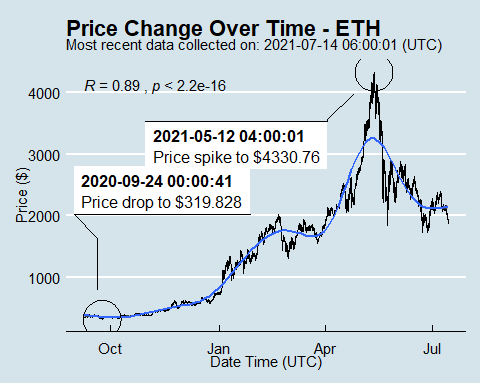
Last run on: 2021-07-14 06:15:09

# 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 1873.179 2021-07-14 06:00:01  
## 1 BTCUSD BTC 31812.290 2021-07-14 06:00:00  
## 2 ETHUSD ETH 1891.046 2021-07-14 05:00:01  
## 3 BTCUSD BTC 31939.360 2021-07-14 05:00:00  
## 4 ETHUSD ETH 1883.044 2021-07-14 04:00:01  
## ... ... ... ... ...  
## 15196 BTCUSD BTC 11893.640 2020-08-15 04:03:56  
## 15197 BTCUSD BTC 11898.730 2020-08-15 03:03:55  
## 15198 BTCUSD BTC 11915.360 2020-08-15 02:03:56  
## 15199 BTCUSD BTC 11915.800 2020-08-15 01:03:55  
## 15200 BTCUSD BTC 11782.580 2020-08-15 00:03:56  
##   
## [15201 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 1873.179 lower 50th percentile of prices  
## 1 BTC 31812.290 upper 50th percentile of prices  
## 2 ETH 1891.046 lower 50th percentile of prices  
## 3 BTC 31939.360 upper 50th percentile of prices  
## 4 ETH 1883.044 lower 50th percentile of prices  
## ... ... ... ...  
## 15196 BTC 11893.640 upper 50th percentile of prices  
## 15197 BTC 11898.730 upper 50th percentile of prices  
## 15198 BTC 11915.360 upper 50th percentile of prices  
## 15199 BTC 11915.800 upper 50th percentile of prices  
## 15200 BTC 11782.580 upper 50th percentile of prices  
##   
## [15201 rows x 3 columns]