R Markdown Output

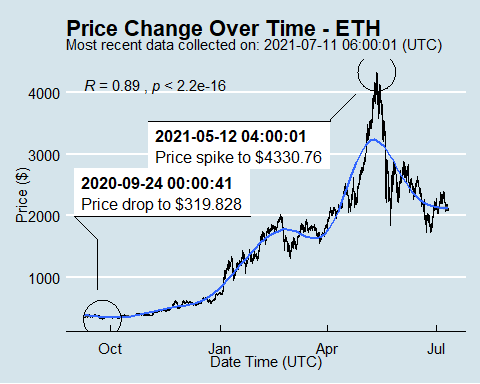
Last run on: 2021-07-11 06:17:55

# 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 2099.617 2021-07-11 06:00:01  
## 1 BTCUSD BTC 33579.600 2021-07-11 06:00:00  
## 2 ETHUSD ETH 2094.423 2021-07-11 05:00:01  
## 3 BTCUSD BTC 33463.920 2021-07-11 05:00:00  
## 4 ETHUSD ETH 2091.950 2021-07-11 04:00:01  
## ... ... ... ... ...  
## 15125 BTCUSD BTC 11573.270 2020-08-13 00:03:52  
## 15126 BTCUSD BTC 11266.550 2020-08-12 03:03:52  
## 15127 BTCUSD BTC 11331.140 2020-08-12 02:03:56  
## 15128 BTCUSD BTC 11346.560 2020-08-12 01:03:56  
## 15129 BTCUSD BTC 11372.920 2020-08-12 00:03:55  
##   
## [15130 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 2099.617 lower 50th percentile of prices  
## 1 BTC 33579.600 upper 50th percentile of prices  
## 2 ETH 2094.423 lower 50th percentile of prices  
## 3 BTC 33463.920 upper 50th percentile of prices  
## 4 ETH 2091.950 lower 50th percentile of prices  
## ... ... ... ...  
## 15125 BTC 11573.270 upper 50th percentile of prices  
## 15126 BTC 11266.550 upper 50th percentile of prices  
## 15127 BTC 11331.140 upper 50th percentile of prices  
## 15128 BTC 11346.560 upper 50th percentile of prices  
## 15129 BTC 11372.920 upper 50th percentile of prices  
##   
## [15130 rows x 3 columns]