R Markdown Output

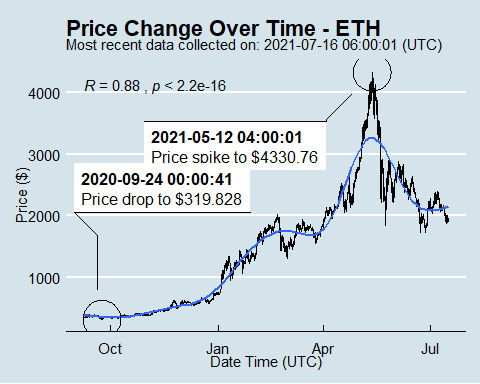
Last run on: 2021-07-16 06:18:00

# 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 1928.872 2021-07-16 06:00:01  
## 1 BTCUSD BTC 31804.460 2021-07-16 06:00:00  
## 2 ETHUSD ETH 1947.025 2021-07-16 05:00:01  
## 3 BTCUSD BTC 31916.240 2021-07-16 05:00:00  
## 4 ETHUSD ETH 1949.451 2021-07-16 04:00:01  
## ... ... ... ... ...  
## 15244 BTCUSD BTC 11844.000 2020-08-17 04:03:55  
## 15245 BTCUSD BTC 11855.070 2020-08-17 03:03:54  
## 15246 BTCUSD BTC 11838.670 2020-08-17 02:04:02  
## 15247 BTCUSD BTC 11825.050 2020-08-17 01:03:53  
## 15248 BTCUSD BTC 11925.450 2020-08-17 00:03:56  
##   
## [15249 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 1928.872 lower 50th percentile of prices  
## 1 BTC 31804.460 upper 50th percentile of prices  
## 2 ETH 1947.025 lower 50th percentile of prices  
## 3 BTC 31916.240 upper 50th percentile of prices  
## 4 ETH 1949.451 lower 50th percentile of prices  
## ... ... ... ...  
## 15244 BTC 11844.000 upper 50th percentile of prices  
## 15245 BTC 11855.070 upper 50th percentile of prices  
## 15246 BTC 11838.670 upper 50th percentile of prices  
## 15247 BTC 11825.050 upper 50th percentile of prices  
## 15248 BTC 11925.450 upper 50th percentile of prices  
##   
## [15249 rows x 3 columns]