R Markdown Output

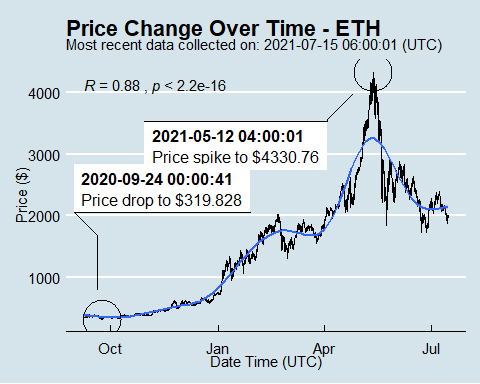
Last run on: 2021-07-15 06:15:13

# 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 1964.267 2021-07-15 06:00:01  
## 1 BTCUSD BTC 32583.050 2021-07-15 06:00:00  
## 2 BTCUSD BTC 32673.000 2021-07-15 05:00:01  
## 3 ETHUSD ETH 1973.606 2021-07-15 05:00:01  
## 4 BTCUSD BTC 32651.650 2021-07-15 04:00:01  
## ... ... ... ... ...  
## 15220 BTCUSD BTC 11921.180 2020-08-16 04:03:55  
## 15221 BTCUSD BTC 11877.910 2020-08-16 03:03:52  
## 15222 BTCUSD BTC 11875.600 2020-08-16 02:04:00  
## 15223 BTCUSD BTC 11822.170 2020-08-16 01:04:00  
## 15224 BTCUSD BTC 11860.060 2020-08-16 00:03:57  
##   
## [15225 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 1964.267 lower 50th percentile of prices  
## 1 BTC 32583.050 upper 50th percentile of prices  
## 2 BTC 32673.000 upper 50th percentile of prices  
## 3 ETH 1973.606 lower 50th percentile of prices  
## 4 BTC 32651.650 upper 50th percentile of prices  
## ... ... ... ...  
## 15220 BTC 11921.180 upper 50th percentile of prices  
## 15221 BTC 11877.910 upper 50th percentile of prices  
## 15222 BTC 11875.600 upper 50th percentile of prices  
## 15223 BTC 11822.170 upper 50th percentile of prices  
## 15224 BTC 11860.060 upper 50th percentile of prices  
##   
## [15225 rows x 3 columns]