

## R Markdown Output

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# 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      1658.848 2021-02-06 06:00:01
## 1      BTCUSD    BTC     39019.140 2021-02-06 06:00:00
## 2      ETHUSD    ETH      1669.399 2021-02-06 05:00:01
## 3      BTCUSD    BTC     39182.540 2021-02-06 05:00:00
## 4      ETHUSD    ETH      1681.316 2021-02-06 04:00:01
## ...      ...      ...           ...           ...
## 7761    BTCUSD    BTC     11972.900 2020-08-10 06:03:50
## 7762    BTCUSD    BTC     11985.890 2020-08-10 05:03:48
## 7763    BTCUSD    BTC     11997.470 2020-08-10 04:32:55
## 7764    BTCUSD    BTC      10686.880                NaT
## 7765    ETHUSD    ETH       357.844                NaT
```

## 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'],
                                                  'upper 50th percentile of price'),
                                  'upper 50th percentile of price',
                                  'lower 50th percentile of price')
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]
```

##	symbol	ask_1_price	price_percentile
## 0	ETH	1658.848	lower 50th percentile of price
## 1	BTC	39019.140	upper 50th percentile of price
## 2	ETH	1669.399	lower 50th percentile of price
## 3	BTC	39182.540	upper 50th percentile of price
## 4	ETH	1681.316	lower 50th percentile of price