

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      BTCUSD   BTC      54132.210 2021-03-24 06:00:01
## 1      ETHUSD   ETH       1673.218 2021-03-24 06:00:01
## 2      BTCUSD   BTC      54135.300 2021-03-24 05:00:01
## 3      ETHUSD   ETH       1678.196 2021-03-24 05:00:01
## 4      ETHUSD   ETH       1679.560 2021-03-24 04:00:01
## ...      ...      ...           ...           ...
## 9965 BTCUSD   BTC      11972.900 2020-08-10 06:03:50
## 9966 BTCUSD   BTC      11985.890 2020-08-10 05:03:48
## 9967 BTCUSD   BTC      11997.470 2020-08-10 04:32:55
## 9968 BTCUSD   BTC      10686.880                NaT
## 9969 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	0	BTC	54132.210	upper 50th percentile of price
## 1	1	ETH	1673.218	lower 50th percentile of price
## 2	2	BTC	54135.300	upper 50th percentile of price
## 3	3	ETH	1678.196	lower 50th percentile of price
## 4	4	ETH	1679.560	lower 50th percentile of price