

R Markdown Output

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

Price Change Over Time – ETH

Most recent data collected on: 2020-12-15 06:00:01 (UTC)

$R = 0.89$, $p < 2.2e-16$



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        582.553 2020-12-15 06:00:01
## 1      BTCUSD    BTC       19134.060 2020-12-15 06:00:00
## 2      ETHUSD    ETH        582.881 2020-12-15 05:00:01
## 3      BTCUSD    BTC       19173.700 2020-12-15 05:00:00
## 4      ETHUSD    ETH        592.628 2020-12-15 04:00:01
## ...      ...      ...           ...           ...
## 5217 BTCUSD    BTC       11972.900 2020-08-10 06:03:50
## 5218 BTCUSD    BTC       11985.890 2020-08-10 05:03:48
## 5219 BTCUSD    BTC       11997.470 2020-08-10 04:32:55
## 5220 BTCUSD    BTC       10686.880                NaT
## 5221 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 | 582.553 | lower 50th percentile of price |
| ## 1 | BTC | 19134.060 | upper 50th percentile of price |
| ## 2 | ETH | 582.881 | lower 50th percentile of price |
| ## 3 | BTC | 19173.700 | upper 50th percentile of price |
| ## 4 | ETH | 582.628 | lower 50th percentile of price |

Back to Gallery

```
include_url("https://r-markdown-gallery.org")
```