

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)
```

Show entries Search:

	pair	symbol	ask_1_price	date_time_utc
1	ETHUSD	ETH	553.184	2020-12-12T17:00:01Z
2	ETHUSD	ETH	554.487	2020-12-12T16:00:01Z
3	ETHUSD	ETH	553.77	2020-12-12T15:00:01Z
4	ETHUSD	ETH	555.539	2020-12-12T14:00:01Z
5	ETHUSD	ETH	557.14	2020-12-12T13:00:01Z
6	ETHUSD	ETH	559.517	2020-12-12T12:00:01Z
7	ETHUSD	ETH	554.736	2020-12-12T11:00:01Z
8	ETHUSD	ETH	556.452	2020-12-12T10:00:01Z
9	ETHUSD	ETH	557.268	2020-12-12T09:00:01Z
10	ETHUSD	ETH	558.965	2020-12-12T08:00:01Z

Showing 1 to 10 of 2,112 entries Previous 1 2 3 4 5 ... 212 Next

Price Chart - Ethereum

Price Change Over Time – ETH

Most recent data collected on: 2020-12-12 10:00:01 (UTC)

$R = 0.88, p < 2.2e-16$



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         553.184 2020-12-12 17:00:01
## 1      BTCUSD   BTC        18394.400 2020-12-12 17:00:00
## 2      BTCUSD   BTC        18402.110 2020-12-12 16:00:01
## 3      ETHUSD   ETH         554.487 2020-12-12 16:00:01
## 4      BTCUSD   BTC        18371.130 2020-12-12 15:00:01
## ...      ...      ...           ...           ...
## 5095  BTCUSD   BTC        11972.900 2020-08-10 06:03:50
## 5096  BTCUSD   BTC        11985.890 2020-08-10 05:03:48
## 5097  BTCUSD   BTC        11997.470 2020-08-10 04:32:55
## 5098  BTCUSD   BTC         10686.880                NaT
## 5099  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'],
                                                  50,
                                                  '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	553.184	lower 50th percentile of price
## 1	BTC	18394.400	upper 50th percentile of price
## 2	BTC	18402.110	upper 50th percentile of price
## 3	ETH	554.487	lower 50th percentile of price
## 4	BTC	18371.130	upper 50th percentile of price

Back to Gallery

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



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This website showcases the many different kinds of output this
product using [r-markdown](#), and refreshes all outputs daily with
the latest open source R packages.

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