Example Presentation

Overview

This document has code embedded throughout. In the next section we will create a visualization using the already loaded dataset `cryptodata`:

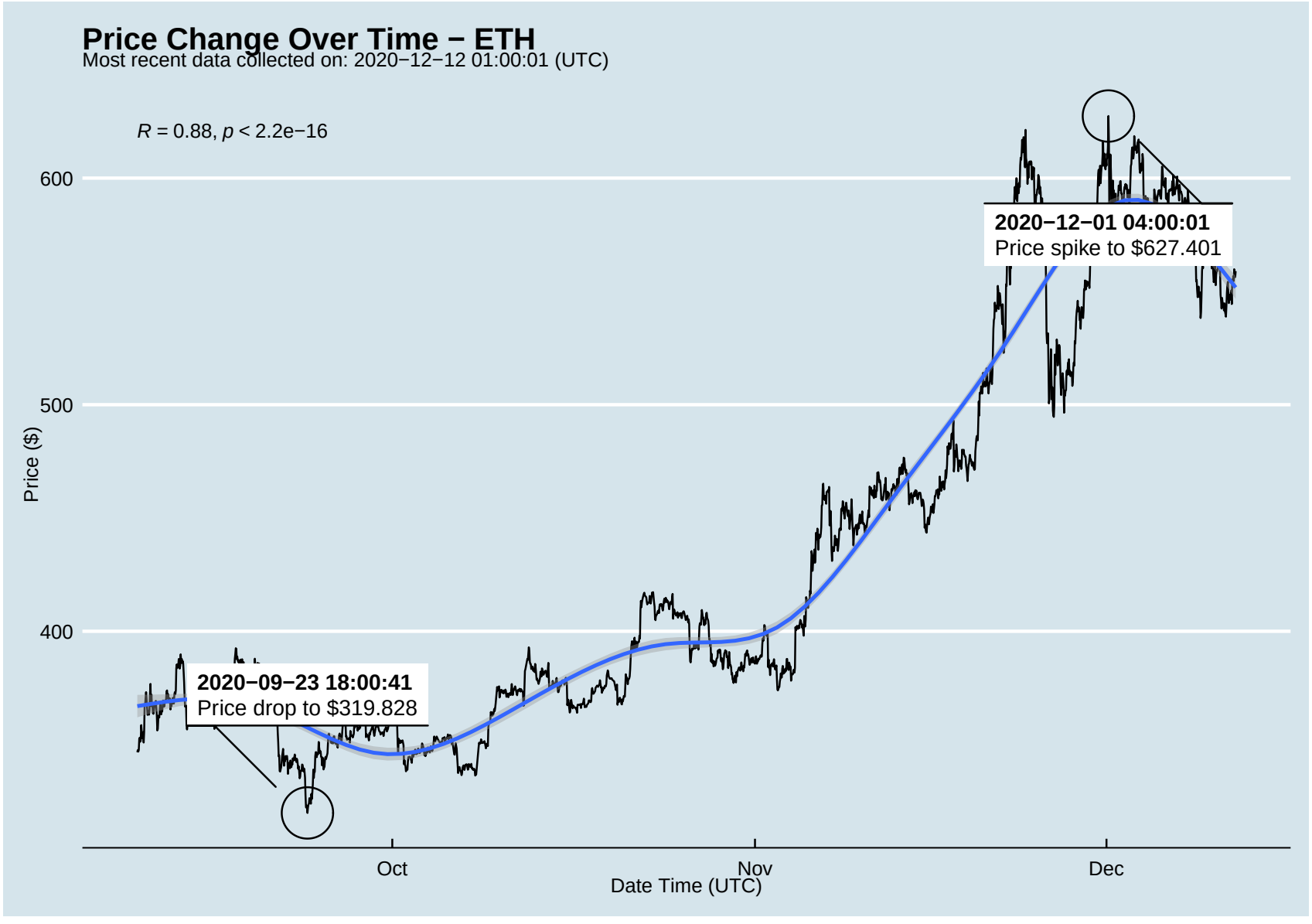
```
datatable(eth_data, rownames = FALSE,
          options(list(lengthMenu = c(4, 5, 6))))
```

Show 10 entries Search:

pair	symbol	ask_1_price	date_time_utc
ETHUSD	ETH	558.965	2020-12-12T08:00:01Z
ETHUSD	ETH	556.336	2020-12-12T07:00:01Z
ETHUSD	ETH	556.357	2020-12-12T06:00:01Z
ETHUSD	ETH	559.788	2020-12-12T05:00:01Z
ETHUSD	ETH	554.608	2020-12-12T04:00:01Z
ETHUSD	ETH	556.665	2020-12-12T03:00:01Z
ETHUSD	ETH	552.726	2020-12-12T02:00:01Z
ETHUSD	ETH	555.184	2020-12-12T01:00:01Z
ETHUSD	ETH	544.422	2020-12-12T00:00:01Z
ETHUSD	ETH	550.443	2020-12-11T23:00:01Z

Showing 1 to 10 of 2,103 entries Previous 1 2 3 4 5 … 211 Next

Price Chart


Price Change Over Time – ETH
Most recent data collected on: 2020−12−12 01:00:01 (UTC)
R = 0.88, p < 2.2e−16
600
500
400
Price ($)
2020−12−01 04:00:01
Price spike to $627.401
2020−09−23 18:00:41
Price drop to $319.828
Oct
Nov
Dec
Date Time (UTC)

Interactive Chart

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    18037.560 2020-12-12 00:00:00
## 1      ETHUSD    ETH      544.422 2020-12-12 00:00:01
## 2      BTCUSD    BTC    18338.710 2020-12-12 01:00:00
## 3      ETHUSD    ETH      555.184 2020-12-12 01:00:01
## 4      BTCUSD    BTC    18283.790 2020-12-12 02:00:00
## ...       ...    ...          ...                 ...
## 5077   BTCUSD    BTC    11847.080 2020-08-10 21:03:49
## 5078   BTCUSD    BTC    11819.920 2020-08-10 22:03:49
## 5079   BTCUSD    BTC    11804.900 2020-08-10 23:03:54
## 5080   BTCUSD    BTC    10686.880                 NaT
## 5081   ETHUSD    ETH      357.844                 NaT
```

One more Python example

Press on `w` on your keyboard to make the presentation wider. Press `f` to fullscreen.

```
import numpy as np
# Create a new field based on the ask_1_price value:
df['price_percentile'] = np.where(df['ask_1_price'] > np.pe
                                  '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_percentil
## 0        BTC    18037.560  upper 50th percentile of price
## 1        ETH      544.422  lower 50th percentile of price
## 2        BTC    18338.710  upper 50th percentile of price
## 3        ETH      555.184  lower 50th percentile of price
## 4        BTC    18283.790  upper 50th percentile of price
## ...      ...          ...                                .
## 5077     BTC    11847.080  upper 50th percentile of price
```

Back to Gallery

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