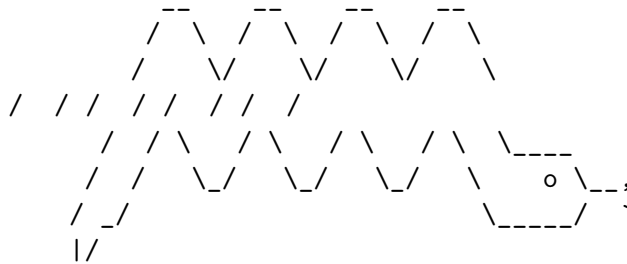


Python_Libraries_HTML_Webscapping

March 1, 2023

```
[1]: !mamba install bs4==4.10.0 -y
!mamba install html5lib==1.1 -y
!pip install lxml==4.6.4
!pip install yfinance==0.1.67
!pip install nbformat==4.2.0
```



mamba (0.15.3) supported by @QuantStack

GitHub: <https://github.com/mamba-org/mamba>

Twitter: <https://twitter.com/QuantStack>

Looking for: ['bs4==4.10.0']

pkgs/main/linux-64	[<=>] (00m:00s)
pkgs/main/linux-64	[=>] (00m:00s) 732 KB / ?? (2.35 MB/s)
pkgs/main/linux-64	[=>] (00m:00s) 732 KB / ?? (2.35 MB/s)
pkgs/main/noarch	[<=>] (00m:00s)
pkgs/main/linux-64	[=>] (00m:00s) 732 KB / ?? (2.35 MB/s)
pkgs/main/noarch	[=>] (00m:00s) 776 KB / ?? (2.48 MB/s)

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pkgs/main/linux-64      [=>          ] (00m:00s) 732 KB / ?? (2.35 MB/s)
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pkgs/main/noarch        [=>          ] (00m:00s) 776 KB / ?? (2.48 MB/s)
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pkgs/r/linux-64         [=>          ] (00m:00s) 772 KB / ?? (2.46 MB/s)
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pkgs/r/linux-64         [=>          ] (00m:00s) 772 KB / ?? (2.46 MB/s)
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pkgs/r/noarch           [<=>          ] (00m:00s) Done
pkgs/r/noarch           [=====] (00m:00s) Done
pkgs/main/linux-64      [=>          ] (00m:00s) 732 KB / ?? (2.35 MB/s)
pkgs/r/linux-64         [=>          ] (00m:00s) 772 KB / ?? (2.46 MB/s)
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pkgs/r/linux-64         [<=>          ] (00m:00s) Finalizing...
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pkgs/main/linux-64      [<=>          ] (00m:00s) 732 KB / ?? (2.35 MB/s)
pkgs/main/linux-64      [ <=>          ] (00m:00s) 1 MB / ?? (2.84 MB/s)
pkgs/main/linux-64      [ <=>          ] (00m:00s) 1 MB / ?? (2.84 MB/s)
pkgs/main/linux-64      [ <=>          ] (00m:00s) 2 MB / ?? (3.74 MB/s)
pkgs/main/linux-64      [ <=>          ] (00m:00s) 2 MB / ?? (3.74 MB/s)
pkgs/main/linux-64      [ <=>          ] (00m:00s) 3 MB / ?? (4.00 MB/s)
pkgs/main/linux-64      [ <=>          ] (00m:00s) 3 MB / ?? (4.00 MB/s)

```

```

pkgs/main/linux-64      [      <=>          ] (00m:00s) 4 MB / ?? (4.22 MB/s)
pkgs/main/linux-64      [      <=>          ] (00m:00s) 4 MB / ?? (4.22 MB/s)
pkgs/main/linux-64      [      <=>          ] (00m:00s) 5 MB / ?? (4.39 MB/s)
pkgs/main/linux-64      [      <=>          ] (00m:00s) Finalizing...
pkgs/main/linux-64      [      <=>          ] (00m:00s) Done
pkgs/main/linux-64      [=====] (00m:00s) Done

```

Pinned packages:

- python 3.7.*

Transaction

Prefix: /home/jupyterlab/conda/envs/python

Updating specs:

- bs4==4.10.0
- ca-certificates
- certifi
- openssl

Package	Version	Build	Channel	Size
---------	---------	-------	---------	------

Install:

+ bs4	4.10.0	hd3eb1b0_0	pkgs/main/noarch	10 KB
-------	--------	------------	------------------	-------

Upgrade:

- ca-certificates	2022.9.24	ha878542_0	installed	
+ ca-certificates	2023.01.10	h06a4308_0	pkgs/main/linux-64	120 KB
- certifi	2022.9.24	pyhd8ed1ab_0	installed	
+ certifi	2022.12.7	py37h06a4308_0	pkgs/main/linux-64	150 KB
- openssl	1.1.1s	h0b41bf4_1	installed	
+ openssl	1.1.1t	h7f8727e_0	pkgs/main/linux-64	4 MB

Downgrade:

- beautifulsoup4	4.11.1	pyha770c72_0	installed	
------------------	--------	--------------	-----------	--

+ beautifulsoup4 4.10.0 pyh06a4308_0 pkgs/main/noarch
85 KB

Summary:

Install: 1 packages
Upgrade: 3 packages
Downgrade: 1 packages

Total download: 4 MB

```
Downloading [> ] (00m:00s) 125.08 KB/s
Extracting [> ] (--:--)
```

Finished bs4 (00m:00s) 10 KB 125 KB/s

```
Downloading [> ] (00m:00s) 125.08 KB/s
Extracting [> ] (--:--)
```

```
Downloading [> ] (00m:00s) 125.08 KB/s
Extracting [> ] (--:--)
```

```
Downloading [> ] (00m:00s) 125.08 KB/s
Extracting [> ] (--:--)
```

```
Downloading [=> ] (00m:00s) 1.88 MB/s
Extracting [> ] (--:--)
```

```
Downloading [==> ] (00m:00s) 2.81 MB/s
Extracting [> ] (--:--)
```

Finished certifi (00m:00s) 150 KB 2 MB/s

```
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Extracting [> ] (--:--)
```

```
Downloading [==> ] (00m:00s) 2.81 MB/s
Extracting [> ] (--:--)
```

Finished beautifulsoup4 (00m:00s) 85 KB 991 KB/s

```
Downloading [===> ] (00m:00s) 3.95 MB/s
Extracting [> ] (--:--)
```

```
Downloading [===> ] (00m:00s) 3.95 MB/s
Extracting [=====> ] (00m:00s) 1 / 5
```

```
Downloading [===> ] (00m:00s) 3.95 MB/s
Extracting [=====> ] (00m:00s) 1 / 5
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```
Downloading [===> ] (00m:00s) 3.95 MB/s
Extracting [=====> ] (00m:00s) 1 / 5
```

```
Downloading [===> ] (00m:00s) 3.95 MB/s
Extracting [=====> ] (00m:00s) 1 / 5
```

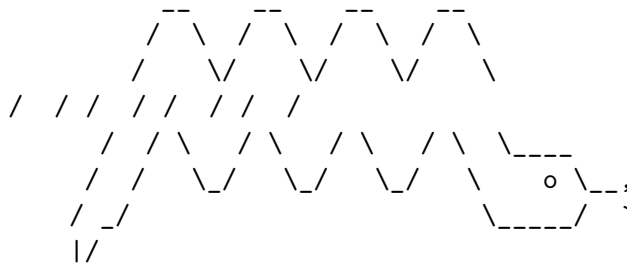
Finished ca-certificates (00m:00s) 120 KB 1 MB/s

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Downloading [===> ] (00m:00s) 3.95 MB/s
```

```

Extracting [=====>] (00m:00s) 1 / 5
Downloading [===>] (00m:00s) 3.95 MB/s
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Downloading [=====] (00m:00s) 29.03 MB/s
Extracting [=====>] (00m:00s) 4 / 5
Finished openssl (00m:00s) 4
MB 27 MB/s
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Extracting [=====>] (00m:00s) 4 / 5
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Extracting [=====>] (00m:00s) 4 / 5
Downloading [=====] (00m:00s) 29.03 MB/s
Extracting [=====] (00m:00s) 5 / 5
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

```



mamba (0.15.3) supported by @QuantStack

GitHub: <https://github.com/mamba-org/mamba>

Twitter: <https://twitter.com/QuantStack>

Looking for: ['html5lib==1.1']

pkgs/main/linux-64	Using cache
pkgs/main/noarch	Using cache
pkgs/r/linux-64	Using cache
pkgs/r/noarch	Using cache

Pinned packages:

- python 3.7.*

Transaction

Prefix: /home/jupyterlab/conda/envs/python

Updating specs:

- html5lib==1.1
- ca-certificates
- certifi
- openssl

Package	Version	Build	Channel	Size
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Install:

+ html5lib	1.1	pyhd3eb1b0_0	pkgs/main/noarch	91 KB
+ webencodings	0.5.1	py37_1	pkgs/main/linux-64	19 KB

Summary:

Install: 2 packages

Total download: 110 KB

Downloading	[=====>] (00m:00s)	142.50 KB/s
Extracting	[>] (--:--)	
Finished webencodings		(00m:00s)		19
KB	142 KB/s			
Downloading	[=====>] (00m:00s)	142.50 KB/s

```

Extracting    [>                                     ] (---:---)
Downloading  [=====>                             ] (00m:00s) 142.50 KB/s
Extracting    [>                                     ] (---:---)
Downloading  [=====>                             ] (00m:00s) 142.50 KB/s
Extracting    [>                                     ] (---:---)
Downloading  [=====>                             ] (00m:00s) 785.12 KB/s
Extracting    [>                                     ] (---:---)
Finished lxml5lib                                (00m:00s)          91
KB      647 KB/s
Downloading  [=====>                             ] (00m:00s) 785.12 KB/s
Extracting    [>                                     ] (---:---)
Downloading  [=====>                             ] (00m:00s) 785.12 KB/s
Extracting    [>                                     ] (---:---)
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Extracting    [=====>                             ] (00m:00s)      1 / 2
Downloading  [=====>                             ] (00m:00s) 785.12 KB/s
Extracting    [=====>                             ] (00m:00s)      1 / 2
Downloading  [=====>                             ] (00m:00s) 785.12 KB/s
Extracting    [=====>                             ] (00m:00s)      2 / 2
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
Collecting lxml==4.6.4
  Downloading lxml-4.6.4-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.m
anylinux_2_24_x86_64.whl (6.3 MB)
                                6.3/6.3 MB
66.2 MB/s eta 0:00:00:00:0100:01
Installing collected packages: lxml
  Attempting uninstall: lxml
    Found existing installation: lxml 4.9.1
    Uninstalling lxml-4.9.1:
      Successfully uninstalled lxml-4.9.1
Successfully installed lxml-4.6.4
Collecting yfinance==0.1.67
  Downloading yfinance-0.1.67-py2.py3-none-any.whl (25 kB)
Requirement already satisfied: pandas>=0.24 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
yfinance==0.1.67) (1.3.5)
Requirement already satisfied: requests>=2.20 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
yfinance==0.1.67) (2.28.1)
Requirement already satisfied: lxml>=4.5.1 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
yfinance==0.1.67) (4.6.4)
Collecting multitasking>=0.0.7
  Downloading multitasking-0.0.11-py3-none-any.whl (8.5 kB)
Requirement already satisfied: numpy>=1.15 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from

```

```

yfinance==0.1.67) (1.21.6)
Requirement already satisfied: python-dateutil>=2.7.3 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
pandas>=0.24->yfinance==0.1.67) (2.8.2)
Requirement already satisfied: pytz>=2017.3 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
pandas>=0.24->yfinance==0.1.67) (2022.6)
Requirement already satisfied: charset-normalizer<3,>=2 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.20->yfinance==0.1.67) (2.1.1)
Requirement already satisfied: certifi>=2017.4.17 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.20->yfinance==0.1.67) (2022.12.7)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.20->yfinance==0.1.67) (1.26.13)
Requirement already satisfied: idna<4,>=2.5 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.20->yfinance==0.1.67) (3.4)
Requirement already satisfied: six>=1.5 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from python-
dateutil>=2.7.3->pandas>=0.24->yfinance==0.1.67) (1.16.0)
Installing collected packages: multitasking, yfinance
Successfully installed multitasking-0.0.11 yfinance-0.1.67
Collecting nbformat==4.2.0
  Downloading nbformat-4.2.0-py2.py3-none-any.whl (153 kB)
                                153.3/153.3 kB
19.2 MB/s eta 0:00:00
Requirement already satisfied: jupyter-core in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
nbformat==4.2.0) (4.12.0)
Requirement already satisfied: traitlets>=4.1 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
nbformat==4.2.0) (5.6.0)
Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
nbformat==4.2.0) (4.17.3)
Requirement already satisfied: ipython-genutils in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
nbformat==4.2.0) (0.2.0)
Requirement already satisfied: importlib-resources>=1.4.0 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
jsonschema!=2.5.0,>=2.4->nbformat==4.2.0) (5.10.1)
Requirement already satisfied: attrs>=17.4.0 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
jsonschema!=2.5.0,>=2.4->nbformat==4.2.0) (22.1.0)
Requirement already satisfied: typing-extensions in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from

```



```

jsonschema!=2.5.0,>=2.4->nbformat==4.2.0) (4.4.0)
Requirement already satisfied: pkgutil-resolve-name>=1.3.10 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
jsonschema!=2.5.0,>=2.4->nbformat==4.2.0) (1.3.10)
Requirement already satisfied: importlib-metadata in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
jsonschema!=2.5.0,>=2.4->nbformat==4.2.0) (4.11.4)
Requirement already satisfied: pyparsing!=0.17.0,!0.17.1,!0.17.2,>=0.14.0 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
jsonschema!=2.5.0,>=2.4->nbformat==4.2.0) (0.19.2)
Requirement already satisfied: zipp>=3.1.0 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from importlib-
resources>=1.4.0->jsonschema!=2.5.0,>=2.4->nbformat==4.2.0) (3.11.0)
Installing collected packages: nbformat
  Attempting uninstall: nbformat
    Found existing installation: nbformat 5.7.0
    Uninstalling nbformat-5.7.0:
      Successfully uninstalled nbformat-5.7.0
ERROR: pip's dependency resolver does not currently take into account all
the packages that are installed. This behaviour is the source of the following
dependency conflicts.

nbconvert 7.2.6 requires nbformat>=5.1, but you have nbformat 4.2.0 which is
incompatible.

nbclient 0.7.2 requires nbformat>=5.1, but you have nbformat 4.2.0 which is
incompatible.

jupyter-server 1.23.3 requires nbformat>=5.2.0, but you have nbformat 4.2.0
which is incompatible.

Successfully installed nbformat-4.2.0

```

```

[2]: import pandas as pd
import requests
from bs4 import BeautifulSoup
import yfinance as yf
import plotly.graph_objects as go
from plotly.subplots import make_subplots

```

```

[3]: def make_graph(stock_data, revenue_data, stock):
    fig = make_subplots(rows=2, cols=1, shared_xaxes=True,
↳ subplot_titles=("Historical Share Price", "Historical Revenue"),
↳ vertical_spacing = .3)
    stock_data_specific = stock_data[stock_data.Date <= '2021-06-14']
    revenue_data_specific = revenue_data[revenue_data.Date <= '2021-04-30']

```

```

fig.add_trace(go.Scatter(x=pd.to_datetime(stock_data_specific.Date,
↪infer_datetime_format=True), y=stock_data_specific.Close.astype("float"),
↪name="Share Price"), row=1, col=1)
fig.add_trace(go.Scatter(x=pd.to_datetime(revenue_data_specific.Date,
↪infer_datetime_format=True), y=revenue_data_specific.Revenue.
↪astype("float"), name="Revenue"), row=2, col=1)
fig.update_xaxes(title_text="Date", row=1, col=1)
fig.update_xaxes(title_text="Date", row=2, col=1)
fig.update_yaxes(title_text="Price ($US)", row=1, col=1)
fig.update_yaxes(title_text="Revenue ($US Millions)", row=2, col=1)
fig.update_layout(showlegend=False,
height=900,
title=stock,
xaxis_rangeflider_visible=True)
fig.show()

```

```
[4]: tsla = yf.Ticker("TSLA")
```

```
[5]: tsla_data = tsla.history(period="max")
```

```
[6]: tsla_data.reset_index(inplace=True)
tsla_data.head()
```

```
[6]:
```

	Date	Open	High	Low	Close	Volume	Dividends	\
0	2010-06-29	1.266667	1.666667	1.169333	1.592667	281494500	0	
1	2010-06-30	1.719333	2.028000	1.553333	1.588667	257806500	0	
2	2010-07-01	1.666667	1.728000	1.351333	1.464000	123282000	0	
3	2010-07-02	1.533333	1.540000	1.247333	1.280000	77097000	0	
4	2010-07-06	1.333333	1.333333	1.055333	1.074000	103003500	0	

```

Stock Splits
0      0.0
1      0.0
2      0.0
3      0.0
4      0.0

```

```
[33]: url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/
↪IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/revenue.htm"

html_data = requests.get(url).text
```

```
[34]: soup = BeautifulSoup(html_data, 'html5lib')
```

```
[39]: tesla_revenue = pd.DataFrame(columns = ["Date", "Revenue"])

for table in soup.find_all('table'):
```

```

if table.find('th').getText().startswith("Tesla Quarterly Revenue"):
    for row in table.find("tbody").find_all("tr"):
        col = row.find_all("td")
        if len(col) != 2: continue
        Date = col[0].text
        Revenue = col[1].text.replace("$", "").replace(",", "")

        tesla_revenue = tesla_revenue.append({"Date":Date, "Revenue":
↪Revenue}, ignore_index=True)

```

```

[41]: tesla_revenue.dropna(axis=0, how='all', subset=['Revenue']) #drop NaN values
tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]

```

```

[42]: tesla_revenue.tail(5)

```

```

[42]:
      Date Revenue
48 2010-09-30      31
49 2010-06-30      28
50 2010-03-31      21
52 2009-09-30      46
53 2009-06-30      27

```

```

[43]: gme = yf.Ticker('GME')

```

```

[44]: gme_data = gme.history(period='max')

```

```

[45]: gme_data.reset_index(inplace=True)
gme_data.head(5)

```

```

[45]:
      Date      Open      High      Low      Close      Volume  Dividends  \
0 2002-02-13  1.620129  1.693350  1.603296  1.691667   76216000      0.0
1 2002-02-14  1.712707  1.716074  1.670626  1.683250   11021600      0.0
2 2002-02-15  1.683250  1.687458  1.658002  1.674834    8389600      0.0
3 2002-02-19  1.666418  1.666418  1.578047  1.607504    7410400      0.0
4 2002-02-20  1.615921  1.662210  1.603296  1.662210    6892800      0.0

      Stock Splits
0              0.0
1              0.0
2              0.0
3              0.0
4              0.0

```

```

[46]: url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/
↪IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/stock.html"
html_data = requests.get(url).text

```

```
[47]: soup = BeautifulSoup(html_data, "html5lib")
```

```
[48]: gme_revenue = pd.DataFrame(columns = ["Date", "Revenue"])

for table in soup.find_all('table'):
    if table.find('th').getText().startswith("GameStop Quarterly Revenue"):
        for row in table.find("tbody").find_all("tr"):
            col = row.find_all("td")
            if len(col) != 2: continue
            Date = col[0].text
            Revenue = col[1].text.replace("$", "").replace(",", "")

            gme_revenue = gme_revenue.append({"Date":Date, "Revenue":Revenue},
↪ ignore_index=True)
```

```
[49]: gme_revenue.tail(5)
```

```
[49]:
```

	Date	Revenue
57	2006-01-31	1667
58	2005-10-31	534
59	2005-07-31	416
60	2005-04-30	475
61	2005-01-31	709

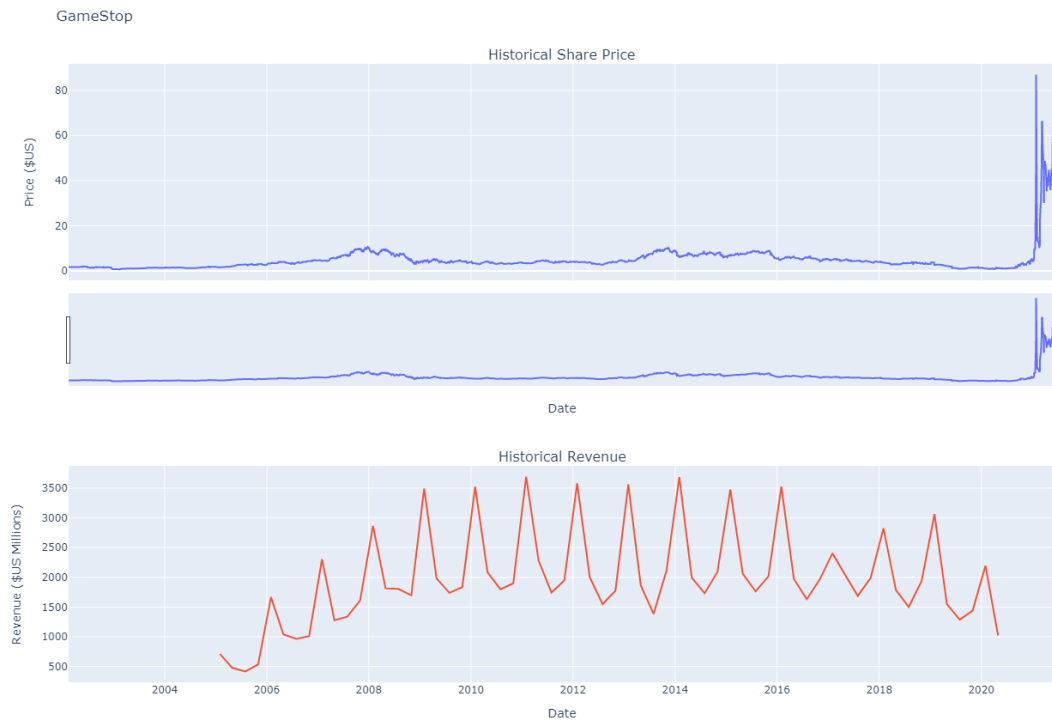
```
[51]: tesla = yf.Ticker('TSLA')
```

```
[52]: tesla_data = tesla.history(period="max")
tesla_data.reset_index(inplace=True)
```

```
[53]: make_graph(tesla_data, tesla_revenue, 'Tesla')
```



```
[54]: make_graph(gme_data, gme_revenue, 'GameStop')
```



[]: