

# Untitled2

February 28, 2024

```
[1]: !pip install yfinance==0.2.4  
      #!pip install pandas==1.3.3
```

Collecting yfinance==0.2.4

Downloading yfinance-0.2.4-py2.py3-none-any.whl (51 kB)

51.4/51.4 kB

9.4 MB/s eta 0:00:00

Requirement already satisfied: pandas>=1.3.0 in  
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from  
yfinance==0.2.4) (1.3.5)

Requirement already satisfied: numpy>=1.16.5 in  
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from  
yfinance==0.2.4) (1.21.6)

Requirement already satisfied: requests>=2.26 in  
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from  
yfinance==0.2.4) (2.29.0)

Collecting multitasking>=0.0.7 (from yfinance==0.2.4)

Downloading multitasking-0.0.11-py3-none-any.whl (8.5 kB)

Requirement already satisfied: lxml>=4.9.1 in  
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from  
yfinance==0.2.4) (4.9.2)

Collecting appdirs>=1.4.4 (from yfinance==0.2.4)

Downloading appdirs-1.4.4-py2.py3-none-any.whl (9.6 kB)

Requirement already satisfied: pytz>=2022.5 in  
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from  
yfinance==0.2.4) (2023.3)

Collecting frozendict>=2.3.4 (from yfinance==0.2.4)

Downloading

frozendict-2.4.0-cp37-cp37m-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (103  
kB)

103.1/103.1 kB

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Requirement already satisfied: cryptography>=3.3.2 in  
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from  
yfinance==0.2.4) (38.0.2)

Requirement already satisfied: beautifulsoup4>=4.11.1 in  
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from  
yfinance==0.2.4) (4.11.1)

```

Collecting html5lib>=1.1 (from yfinance==0.2.4)
  Downloading html5lib-1.1-py2.py3-none-any.whl (112 kB)
    112.2/112.2 kB
20.0 MB/s eta 0:00:00
Requirement already satisfied: soupsieve>1.2 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
beautifulsoup4>=4.11.1->yfinance==0.2.4) (2.3.2.post1)
Requirement already satisfied: cffi>=1.12 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
cryptography>=3.3.2->yfinance==0.2.4) (1.15.1)
Requirement already satisfied: six>=1.9 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
html5lib>=1.1->yfinance==0.2.4) (1.16.0)
Requirement already satisfied: webencodings in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
html5lib>=1.1->yfinance==0.2.4) (0.5.1)
Requirement already satisfied: python-dateutil>=2.7.3 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
pandas>=1.3.0->yfinance==0.2.4) (2.8.2)
Requirement already satisfied: charset-normalizer<4,>=2 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.26->yfinance==0.2.4) (3.1.0)
Requirement already satisfied: idna<4,>=2.5 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.26->yfinance==0.2.4) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.26->yfinance==0.2.4) (1.26.15)
Requirement already satisfied: certifi>=2017.4.17 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
requests>=2.26->yfinance==0.2.4) (2023.5.7)
Requirement already satisfied: pycparser in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from
cffi>=1.12->cryptography>=3.3.2->yfinance==0.2.4) (2.21)
Installing collected packages: multitasking, appdirs, html5lib, frozendict,
yfinance
Successfully installed appdirs-1.4.4 frozendict-2.4.0 html5lib-1.1
multitasking-0.0.11 yfinance-0.2.4

```

```

[1]: !pip install yfinance==0.2.4
      #!pip install pandas==1.3.3

```

```

Collecting yfinance==0.2.4
  Downloading yfinance-0.2.4-py2.py3-none-any.whl (51 kB)
    51.4/51.4 kB
9.4 MB/s eta 0:00:00
Requirement already satisfied: pandas>=1.3.0 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (from

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yfinance==0.2.4) (1.3.5)  
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Requirement already satisfied: soupsieve>1.2 in  
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Installing collected packages: multitasking, appdirs, html5lib, frozendict,  
yfinance  
Successfully installed appdirs-1.4.4 frozendict-2.4.0 html5lib-1.1  
multitasking-0.0.11 yfinance-0.2.4

```
[2]: import yfinance as yf
import pandas as pd
```

```
[3]: Tesla_stock = yf.Ticker('TSLA')
```

```
[4]: tesla_data = Tesla_stock.history(period = 'max')
```

```
[5]: tesla_data.reset_index(inplace=True)
```

```
[6]: tesla_data.head(5)
```

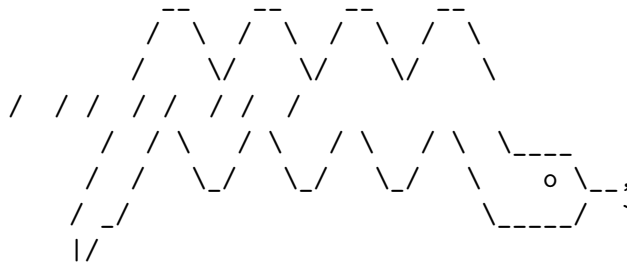
```
[6]:
```

	Date	Open	High	Low	Close	\
0	2010-06-29 00:00:00-04:00	1.266667	1.666667	1.169333	1.592667	
1	2010-06-30 00:00:00-04:00	1.719333	2.028000	1.553333	1.588667	
2	2010-07-01 00:00:00-04:00	1.666667	1.728000	1.351333	1.464000	
3	2010-07-02 00:00:00-04:00	1.533333	1.540000	1.247333	1.280000	
4	2010-07-06 00:00:00-04:00	1.333333	1.333333	1.055333	1.074000	

	Volume	Dividends	Stock Splits
0	281494500	0.0	0.0
1	257806500	0.0	0.0
2	123282000	0.0	0.0
3	77097000	0.0	0.0
4	103003500	0.0	0.0

```
[9]: !mamba install bs4==4.11.1 -y
```



mamba (1.4.2) supported by @QuantStack

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

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

Looking for: ['bs4==4.11.1']

```
[+] 0.0s
[+] 0.1s
pkgs/main/linux-64          0.0 B /  ???.?MB
@ ???.?MB/s 0.1s
pkgs/main/noarch           0.0 B /  ???.?MB
@ ???.?MB/s 0.1s
pkgs/r/linux-64            0.0 B /  ???.?MB
@ ???.?MB/s 0.1s
pkgs/r/noarch              0.0 B
/ ???.?MB @ ???.?MB/s 0.1s[+] 0.2s
pkgs/main/linux-64        45.1kB /  ???.?MB
@ 292.8kB/s 0.2s
pkgs/main/noarch          12.3kB
/ ???.?MB @ 80.0kB/s 0.2s
pkgs/r/linux-64           0.0 B /  ???.?MB
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pkgs/main/linux-64        499.7kB
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pkgs/main/noarch          495.6kB
/ ???.?MB @ 1.9MB/s 0.3s
pkgs/r/linux-64           344.1kB /  ???.?MB
```

```

@ 1.3MB/s 0.3s
pkgs/r/noarch 311.3kB / ???.?MB
@ 1.2MB/s 0.3spkgs/main/noarch
860.5kB @ 2.5MB/s 0.4s
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2.3MB @ 2.9MB/s 0.9s
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/ ???.?MB @ 4.3MB/s 1.4s[+] 1.5s
pkgs/main/linux-64 6.4MB

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/ ???.?MB @ 4.3MB/s 1.5s[+] 1.6s
pkgs/main/linux-64 6.7MB @ 4.4MB/s Finalizing
1.6s[+] 1.7s
pkgs/main/linux-64 @ 4.4MB/s
1.7s
```

Pinned packages:

- python 3.7.\*

Transaction

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

Updating specs:

- bs4==4.11.1
- ca-certificates
- certifi
- openssl

Package	Version	Build	Channel	Size
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Install:

+ bs4	4.11.1	hd3eb1b0_0	pkgs/main/noarch	5kB
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Upgrade:

- ca-certificates	2023.5.7	hbcca054_0	conda-forge	
+ ca-certificates	2023.12.12	h06a4308_0	pkgs/main/linux-64	129kB
- openssl	1.1.1t	h0b41bf4_0	conda-forge	
+ openssl	1.1.1w	h7f8727e_0	pkgs/main/linux-64	4MB

Summary:

Install: 1 packages

Upgrade: 2 packages

Total download: 4MB

```

[+] 0.0s
Downloading                0.0 B
0.0s
Extracting                  0
0.0sbs4
5.0kB @ 66.2kB/s 0.1s
ca-certificates            128.7kB @ 1.4MB/s 0.1s
[+] 0.1s
Downloading (1)            181.8kB openssl
0.0s
Extracting (2)              0 bs4
0.0sopenssl
3.9MB @ 36.7MB/s 0.1s
[+] 0.2s
Downloading                4.0MB                0.1s
Extracting (3)              0 bs4
0.1s[+] 0.3s
Downloading                4.0MB                0.1s
Extracting (3)              0 bs4
0.2s[+] 0.4s
Downloading                4.0MB                0.1s
Extracting (3)              0 bs4
0.3s[+] 0.5s
Downloading                4.0MB                0.1s
Extracting (3)              0 ca-
certificates                0.4s[+] 0.6s
Downloading                4.0MB                0.1s
Extracting (3)              0 ca-
certificates                0.5s[+] 0.7s
Downloading                4.0MB                0.1s
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certificates                0.6s[+] 0.8s
Downloading                4.0MB                0.1s
Extracting (3)              0 ca-
certificates                0.7s[+] 0.9s
Downloading                4.0MB                0.1s
Extracting (3)              0 openssl
0.8s[+] 1.0s
Downloading                4.0MB                0.1s
Extracting (3)              0 openssl
0.9s[+] 1.1s
Downloading                4.0MB                0.1s
Extracting (3)              0 openssl
1.0s[+] 1.2s
Downloading                4.0MB                0.1s
Extracting (2)              1 openssl

```



```

1.1s[+] 1.3s
Downloading          4.0MB          0.1s
Extracting           3
1.2s
Downloading and Extracting Packages

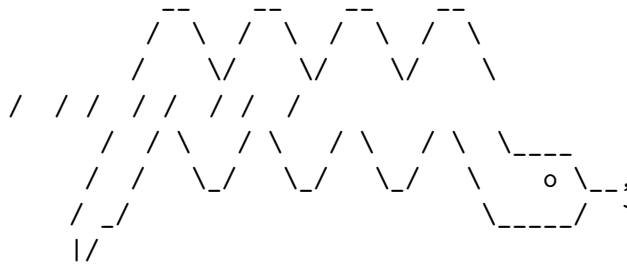
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

```

```

[12]: import yfinance as yf
import pandas as pd
import requests
from bs4 import BeautifulSoup
import plotly.graph_objects as go
from plotly.subplots import make_subplots
!mamba install html5lib==1.1 -y

```



mamba (1.4.2) supported by @QuantStack

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

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

Looking for: ['html5lib==1.1']

```

[+] 0.0s
pkgs/main/linux-64          0.0 B
/  ???.?MB @  ???.?MB/s  0.0s[+] 0.1s
pkgs/main/linux-64          0.0 B

```

```

/   ???.?MB @   ???.?MB/s   0.1s
pkgs/main/noarch                0.0 B /   ???.?MB
@   ???.?MB/s   0.1s
pkgs/r/linux-64                 0.0 B /   ???.?MB
@   ???.?MB/s   0.1s
pkgs/r/noarch                   0.0 B /   ???.?MB
@   ???.?MB/s   0.1s
pkgs/r/noarch
No change
pkgs/main/noarch                No change
pkgs/r/linux-64                 No change
pkgs/main/linux-64              No change

```

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
---------	---------	-------	---------	------

Install:

+ <a href="#">html5lib</a>	1.1	pyhd3eb1b0_0	pkgs/main/noarch	93kB
+ <a href="#">webencodings</a>	0.5.1	py37_1	pkgs/main/linux-64	20kB

Summary:

Install: 2 packages

Total download: 113kB

```

[+] 0.0s
Downloading                0.0 B
0.0s

```

```

Extracting                                0
0.0s[+] 0.1s
Downloading (2)                          0.0 B html5lib
0.0s
Extracting                                0
0.0swebencodings
19.6kB @ 137.4kB/s 0.1s
html5lib                                93.0kB @ 613.6kB/s 0.2s
[+] 0.2s
Downloading                          112.6kB          0.1s
Extracting (2)                        0
html5lib                          0.0s[+] 0.3s
Downloading                          112.6kB          0.1s
Extracting (2)                        0
html5lib                          0.1s[+] 0.4s
Downloading                          112.6kB          0.1s
Extracting (2)                        0
html5lib                          0.2s[+] 0.5s
Downloading                          112.6kB          0.1s
Extracting (2)                        0 html5lib
0.3s[+] 0.6s
Downloading                          112.6kB          0.1s
Extracting (2)                        0 webencodings
0.4s[+] 0.7s
Downloading                          112.6kB          0.1s
Extracting (2)                        0 webencodings
0.5s[+] 0.8s
Downloading                          112.6kB          0.1s
Extracting (2)                        0 webencodings
0.6s
Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Executing transaction: done

```

```
[38]: 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
```

```
[39]: beautiful_soup = BeautifulSoup(html_data, 'html5lib')
```

```
[42]: tesla_revenue = pd.read_html(str(beautiful_soup))
tesla_revenue_df = pd.DataFrame(columns = ['Date', 'Revenue'])

for row in beautiful_soup.find("tbody").find_all("tr"):
    col = row.find_all("td")
```

```

    Date = col[0].text
    Revenue = col[1].text
    tesla_revenue_df = tesla_revenue_df.append({"Date":Date, "Revenue":
↪Revenue}, ignore_index=True)

```

```
[43]: tesla_revenue_df.tail(5)
```

```

[43]:      Date Revenue
8   2013   $2,013
9   2012    $413
10  2011    $204
11  2010    $117
12  2009    $112

```

```
[19]: Gameshop_data = yf.Ticker('GME')
```

```
[24]: gme_data = Gameshop_data.history(period = 'max')
```

```

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

```

```

[25]:      Date      Open      High      Low      Close      Volume \
0 2002-02-13 00:00:00-05:00  1.620128  1.693350  1.603296  1.691666  76216000
1 2002-02-14 00:00:00-05:00  1.712707  1.716073  1.670626  1.683250  11021600
2 2002-02-15 00:00:00-05:00  1.683250  1.687458  1.658002  1.674834   8389600
3 2002-02-19 00:00:00-05:00  1.666418  1.666418  1.578047  1.607504   7410400
4 2002-02-20 00:00:00-05:00  1.615921  1.662210  1.603296  1.662210   6892800

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

```

```

[51]: 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

```

```
[52]: beautiful_soup = BeautifulSoup(html_data, 'html5lib')
```

```

[55]: GameStop_revenue=pd.read_html(str(beautiful_soup))
      gme_revenue=pd.DataFrame(columns = ['Date', 'Revenue'])
      for row in beautiful_soup.find("tbody").find_all("tr"):
          col = row.find_all("td")
          Date = col[0].text
          Revenue = col[1].text

```

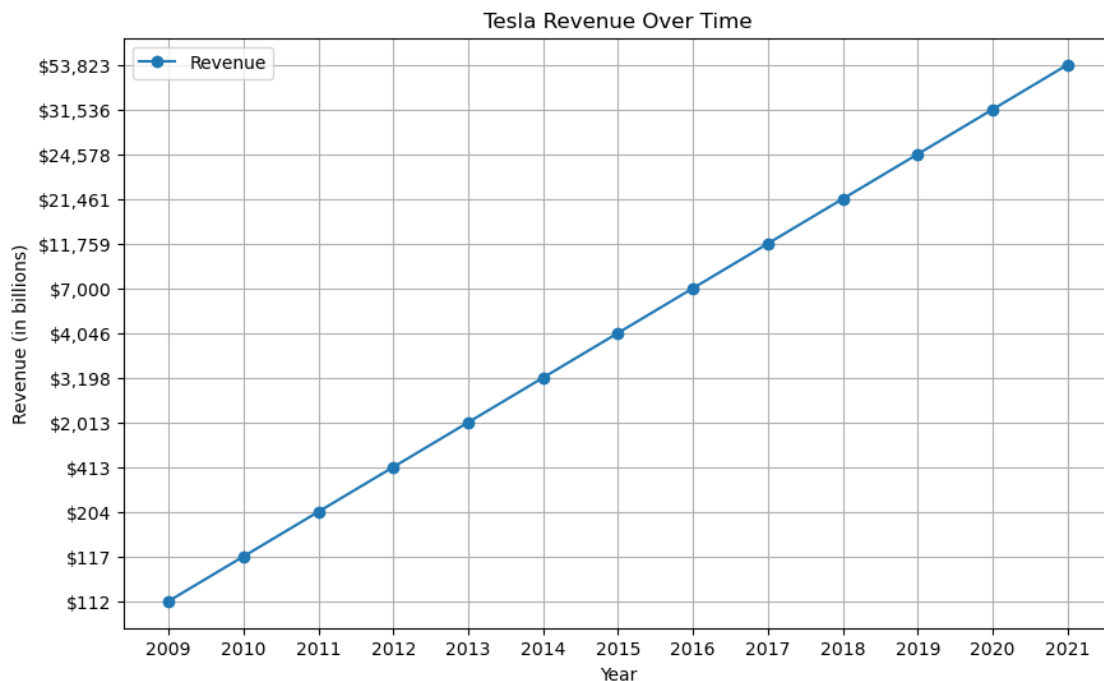
```
gme_revenue = gme_revenue.append({"Date":Date, "Revenue":Revenue},  
↳ignore_index=True)
```

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

```
[59]:      Date Revenue  
11  2009  $8,806  
12  2008  $7,094  
13  2007  $5,319  
14  2006  $3,092  
15  2005  $1,843
```

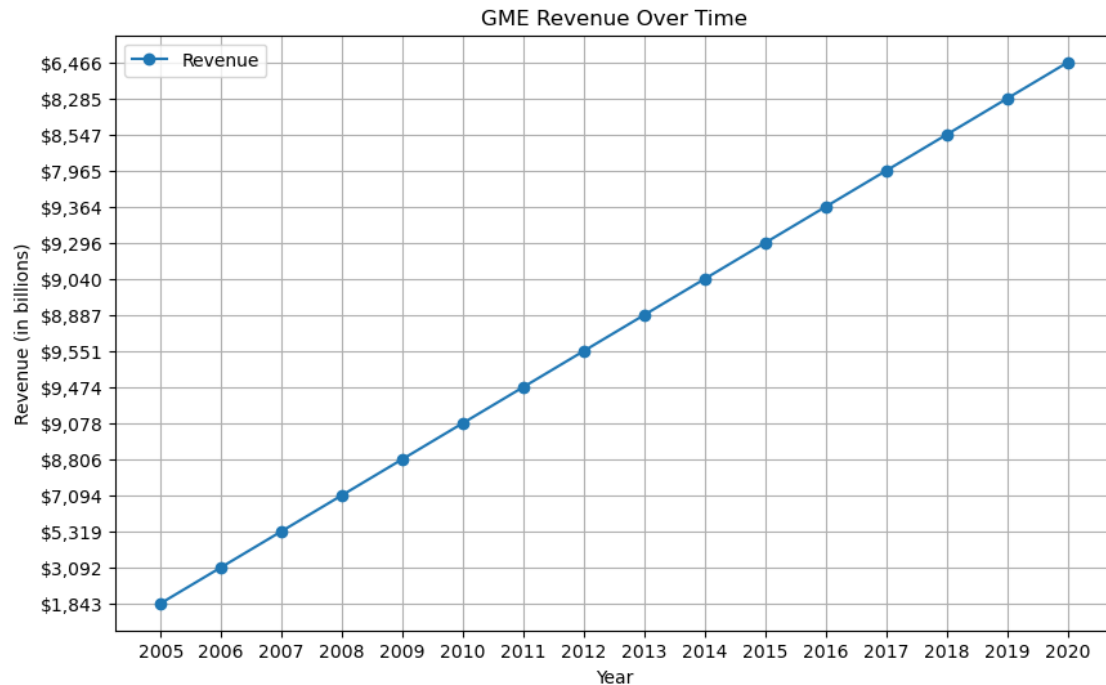
```
[63]: import matplotlib.pyplot as plt  
  
def make_graph(tesla_data, tesla_revenue_df, Tesla):  
    tesla_revenue_df = tesla_revenue_df.sort_values(by='Date')  
    plt.figure(figsize=(10, 6))  
    plt.plot(tesla_revenue_df['Date'], tesla_revenue_df['Revenue'], marker='o',  
↳label='Revenue')  
    plt.title(f'{Tesla} Revenue Over Time')  
    plt.xlabel('Year')  
    plt.ylabel('Revenue (in billions)')  
    plt.legend()  
    plt.grid(True)  
    plt.show()
```

```
[64]: make_graph(tesla_data, tesla_revenue_df, 'Tesla')
```



```
[70]: def make_graph(gme_data, gme_revenue, GME):
    gme_revenue = gme_revenue.sort_values(by='Date')
    plt.figure(figsize=(10, 6))
    plt.plot(gme_revenue['Date'], gme_revenue['Revenue'], marker='o',
    ↪label='Revenue')
    plt.title(f'{GME} Revenue Over Time')
    plt.xlabel('Year')
    plt.ylabel('Revenue (in billions)')
    plt.legend()
    plt.grid(True)
    plt.show()
```

```
[72]: make_graph(gme_data, gme_revenue, 'GME')
```



```
[ ]:
```