

Tesla and GameStop Assignment

March 31, 2025

Extracting and Visualizing Stock Data

Description

Extracting essential data from a dataset and displaying it is a necessary part of data science; therefore individuals can make correct decisions based on the data. In this assignment, you will extract some stock data, you will then display this data in a graph.

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Estimated Time Needed: 30 min

Note:- If you are working Locally using anaconda, please uncomment the following code and execute it. Use the version as per your python version.

```
[1]: !pip install yfinance
      !pip install bs4
      !pip install nbformat
      !pip install --upgrade plotly
```

Collecting yfinance

Downloading yfinance-0.2.55-py2.py3-none-any.whl.metadata (5.8 kB)

Collecting pandas>=1.3.0 (from yfinance)

Downloading

pandas-2.2.3-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (89 kB)

Collecting numpy>=1.16.5 (from yfinance)

Downloading

numpy-2.2.4-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (62 kB)

Requirement already satisfied: requests>=2.31 in /opt/conda/lib/python3.12/site-packages (from yfinance) (2.32.3)

```

Collecting multitasking>=0.0.7 (from yfinance)
  Downloading multitasking-0.0.11-py3-none-any.whl.metadata (5.5 kB)
Requirement already satisfied: platformdirs>=2.0.0 in
/opt/conda/lib/python3.12/site-packages (from yfinance) (4.3.6)
Requirement already satisfied: pytz>=2022.5 in /opt/conda/lib/python3.12/site-
packages (from yfinance) (2024.2)
Requirement already satisfied: frozendict>=2.3.4 in
/opt/conda/lib/python3.12/site-packages (from yfinance) (2.4.6)
Collecting peewee>=3.16.2 (from yfinance)
  Downloading peewee-3.17.9.tar.gz (3.0 MB)
      3.0/3.0 MB
139.1 MB/s eta 0:00:00
  Installing build dependencies ... one
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Requirement already satisfied: beautifulsoup4>=4.11.1 in
/opt/conda/lib/python3.12/site-packages (from yfinance) (4.12.3)
Requirement already satisfied: soupsieve>1.2 in /opt/conda/lib/python3.12/site-
packages (from beautifulsoup4>=4.11.1->yfinance) (2.5)
Requirement already satisfied: python-dateutil>=2.8.2 in
/opt/conda/lib/python3.12/site-packages (from pandas>=1.3.0->yfinance)
(2.9.0.post0)
Collecting tzdata>=2022.7 (from pandas>=1.3.0->yfinance)
  Downloading tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: charset_normalizer<4,>=2 in
/opt/conda/lib/python3.12/site-packages (from requests>=2.31->yfinance) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.12/site-
packages (from requests>=2.31->yfinance) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/opt/conda/lib/python3.12/site-packages (from requests>=2.31->yfinance) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in
/opt/conda/lib/python3.12/site-packages (from requests>=2.31->yfinance)
(2024.12.14)
Requirement already satisfied: six>=1.5 in /opt/conda/lib/python3.12/site-
packages (from python-dateutil>=2.8.2->pandas>=1.3.0->yfinance) (1.17.0)
Downloading yfinance-0.2.55-py2.py3-none-any.whl (109 kB)
Downloading multitasking-0.0.11-py3-none-any.whl (8.5 kB)
Downloading
numpy-2.2.4-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (16.1 MB)
      16.1/16.1 MB
127.0 MB/s eta 0:00:00
Downloading
pandas-2.2.3-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (12.7
MB)
      12.7/12.7 MB
155.1 MB/s eta 0:00:00
Downloading tzdata-2025.2-py2.py3-none-any.whl (347 kB)
Building wheels for collected packages: peewee

```

```

Building wheel for peewee (pyproject.toml) ... one
Created wheel for peewee:
filename=peewee-3.17.9-cp312-cp312-linux_x86_64.whl size=303832
sha256=beb27f93c1ae0f9cfaacf593d7ec9f9bf2171bdac5eb873a158cffc2cc3580f7
Stored in directory: /home/jupyterlab/.cache/pip/wheels/43/ef/2d/2c51d496bf084
945ffdf838b4cc8767b8ba1cc20eb41588831
Successfully built peewee
Installing collected packages: peewee, multitasking, tzdata, numpy, pandas,
yfinance
Successfully installed multitasking-0.0.11 numpy-2.2.4 pandas-2.2.3
peewee-3.17.9 tzdata-2025.2 yfinance-0.2.55
Collecting bs4
  Downloading bs4-0.0.2-py2.py3-none-any.whl.metadata (411 bytes)
Requirement already satisfied: beautifulsoup4 in /opt/conda/lib/python3.12/site-
packages (from bs4) (4.12.3)
Requirement already satisfied: soupsieve>1.2 in /opt/conda/lib/python3.12/site-
packages (from beautifulsoup4->bs4) (2.5)
  Downloading bs4-0.0.2-py2.py3-none-any.whl (1.2 kB)
Installing collected packages: bs4
Successfully installed bs4-0.0.2
Requirement already satisfied: nbformat in /opt/conda/lib/python3.12/site-
packages (5.10.4)
Requirement already satisfied: fastjsonschema>=2.15 in
/opt/conda/lib/python3.12/site-packages (from nbformat) (2.21.1)
Requirement already satisfied: jsonschema>=2.6 in
/opt/conda/lib/python3.12/site-packages (from nbformat) (4.23.0)
Requirement already satisfied: jupyter-core!=5.0.*,>=4.12 in
/opt/conda/lib/python3.12/site-packages (from nbformat) (5.7.2)
Requirement already satisfied: traitlets>=5.1 in /opt/conda/lib/python3.12/site-
packages (from nbformat) (5.14.3)
Requirement already satisfied: attrs>=22.2.0 in /opt/conda/lib/python3.12/site-
packages (from jsonschema>=2.6->nbformat) (25.1.0)
Requirement already satisfied: jsonschema-specifications>=2023.03.6 in
/opt/conda/lib/python3.12/site-packages (from jsonschema>=2.6->nbformat)
(2024.10.1)
Requirement already satisfied: referencing>=0.28.4 in
/opt/conda/lib/python3.12/site-packages (from jsonschema>=2.6->nbformat)
(0.36.2)
Requirement already satisfied: rpds-py>=0.7.1 in /opt/conda/lib/python3.12/site-
packages (from jsonschema>=2.6->nbformat) (0.22.3)
Requirement already satisfied: platformdirs>=2.5 in
/opt/conda/lib/python3.12/site-packages (from jupyter-
core!=5.0.*,>=4.12->nbformat) (4.3.6)
Requirement already satisfied: typing-extensions>=4.4.0 in
/opt/conda/lib/python3.12/site-packages (from
referencing>=0.28.4->jsonschema>=2.6->nbformat) (4.12.2)
Requirement already satisfied: plotly in /opt/conda/lib/python3.12/site-packages
(5.24.1)

```

```

Collecting plotly
  Downloading plotly-6.0.1-py3-none-any.whl.metadata (6.7 kB)
Collecting narwhals>=1.15.1 (from plotly)
  Downloading narwhals-1.32.0-py3-none-any.whl.metadata (9.2 kB)
Requirement already satisfied: packaging in /opt/conda/lib/python3.12/site-packages (from plotly) (24.2)
Downloading plotly-6.0.1-py3-none-any.whl (14.8 MB)
      14.8/14.8 MB
150.1 MB/s eta 0:00:00
Downloading narwhals-1.32.0-py3-none-any.whl (320 kB)
Installing collected packages: narwhals, plotly
  Attempting uninstall: plotly
    Found existing installation: plotly 5.24.1
    Uninstalling plotly-5.24.1:
      Successfully uninstalled plotly-5.24.1
Successfully installed narwhals-1.32.0 plotly-6.0.1

```

```

[2]: 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

```

```

[3]: import plotly.io as pio
pio.renderers.default = "iframe"

```

In Python, you can ignore warnings using the warnings module. You can use the filterwarnings function to filter or ignore specific warning messages or categories.

```

[4]: import warnings
# Ignore all warnings
warnings.filterwarnings("ignore", category=FutureWarning)

```

0.1 Define Graphing Function

In this section, we define the function `make_graph`. You don't have to know how the function works, you should only care about the inputs. It takes a dataframe with stock data (dataframe must contain Date and Close columns), a dataframe with revenue data (dataframe must contain Date and Revenue columns), and the name of the stock.

```

[5]: 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_rangeslider_visible=True)
fig.show()
from IPython.display import display, HTML
fig_html = fig.to_html()
display(HTML(fig_html))

```

Use the `make_graph` function that we've already defined. You'll need to invoke it in questions 5 and 6 to display the graphs and create the dashboard. > **Note: You don't need to redefine the function for plotting graphs anywhere else in this notebook; just use the existing function.**

0.2 Question 1: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is Tesla and its ticker symbol is `TSLA`.

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

[11]: yfinance.Ticker object <TSLA>

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `tesla_data`. Set the `period` parameter to `"max"` so we get information for the maximum amount of time.

```
[13]: tesla_data = tesla.history(period="max")
tesla_data
```

```
[13]:
```

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

```

...
2025-03-24 00:00:00-04:00 258.079987 278.640015 256.329987 278.390015
2025-03-25 00:00:00-04:00 283.600006 288.200012 271.279999 288.140015
2025-03-26 00:00:00-04:00 282.660004 284.899994 266.510010 272.059998
2025-03-27 00:00:00-04:00 272.480011 291.850006 271.820007 273.130005
2025-03-28 00:00:00-04:00 275.579987 276.100006 260.570007 263.549988

```

```

                                Volume  Dividends  Stock Splits
Date
2010-06-29 00:00:00-04:00 281494500          0.0          0.0
2010-06-30 00:00:00-04:00 257806500          0.0          0.0
2010-07-01 00:00:00-04:00 123282000          0.0          0.0
2010-07-02 00:00:00-04:00  77097000          0.0          0.0
2010-07-06 00:00:00-04:00 103003500          0.0          0.0
...
2025-03-24 00:00:00-04:00 169079900          0.0          0.0
2025-03-25 00:00:00-04:00 150361500          0.0          0.0
2025-03-26 00:00:00-04:00 153629800          0.0          0.0
2025-03-27 00:00:00-04:00 162572100          0.0          0.0
2025-03-28 00:00:00-04:00 123226900          0.0          0.0

```

[3711 rows x 7 columns]

Reset the index using the `reset_index(inplace=True)` function on the `tesla_data` DataFrame and display the first five rows of the `tesla_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 1 to the results below.

```

[16]: tesla_new = tesla_data.reset_index(inplace=True)
      tesla_head = tesla_data.head()
      tesla_head

```

```

[16]:   level_0  index          Date    Open    High    Low \
0        0      0 2010-06-29 00:00:00-04:00  1.266667  1.666667  1.169333
1        1      1 2010-06-30 00:00:00-04:00  1.719333  2.028000  1.553333
2        2      2 2010-07-01 00:00:00-04:00  1.666667  1.728000  1.351333
3        3      3 2010-07-02 00:00:00-04:00  1.533333  1.540000  1.247333
4        4      4 2010-07-06 00:00:00-04:00  1.333333  1.333333  1.055333

      Close    Volume  Dividends  Stock Splits
0  1.592667 281494500          0.0          0.0
1  1.588667 257806500          0.0          0.0
2  1.464000 123282000          0.0          0.0
3  1.280000  77097000          0.0          0.0
4  1.074000 103003500          0.0          0.0

```

0.3 Question 2: Use Webscraping to Extract Tesla Revenue Data

Use the `requests` library to download the webpage `https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/revenue.htm`. Save the text of the response as a variable named `html_data`.

```
[17]: url = 'https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/
↳ IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/revenue.htm'
html_url = requests.get(url)
html_data = html_url.text
```

Parse the html data using `beautiful_soup` using parser i.e `html5lib` or `html.parser`.

```
[18]: soup = BeautifulSoup(html_data, "html.parser")
```

Using `BeautifulSoup` or the `read_html` function extract the table with Tesla Revenue and store it into a dataframe named `tesla_revenue`. The dataframe should have columns `Date` and `Revenue`.

Step-by-step instructions

Here are the step-by-step instructions:

1. Create an Empty DataFrame
2. Find the Relevant Table
3. Check for the Tesla Quarterly Revenue Table
4. Iterate Through Rows in the Table Body
5. Extract Data from Columns
6. Append Data to the DataFrame

[Click here](#) if you need help locating the table

Below is the code to isolate the table, you will now need to loop through the rows and columns

```
soup.find_all("tbody")[1]
```

If you want to use the `read_html` function the table is located at index 1

We are focusing on quarterly revenue in the lab.

```
[26]: tesla_revenue
tesla_revenue = pd.DataFrame(columns=['Date' , 'Revenue'])
for row in soup.find("tbody").find_all('tr'):
    col = row.find_all("td")
    date = col[0].text
    revenue = col[1].text

    tesla_revenue = pd.concat([tesla_revenue, pd.DataFrame({'Date': [date],
↳ 'Revenue': [revenue]})], ignore_index=True)
```

```
print(tesla_revenue.head())
```

```
   Date  Revenue
0  2021  $53,823
1  2020  $31,536
2  2019  $24,578
3  2018  $21,461
4  2017  $11,759
```

Execute the following line to remove the comma and dollar sign from the `Revenue` column.

```
[27]: tesla_revenue["Revenue"] = tesla_revenue['Revenue'].str.replace(',|\$', "")
```

Execute the following lines to remove an null or empty strings in the `Revenue` column.

```
[28]: tesla_revenue.dropna(inplace=True)

tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
```

Display the last 5 row of the `tesla_revenue` dataframe using the `tail` function. Take a screenshot of the results.

```
[60]: tesla_revenue.tail()
```

```
[60]:   Date  Revenue
8   2013   2013.0
9   2012    413.0
10  2011    204.0
11  2010    117.0
12  2009    112.0
```

0.4 Question 3: Use `yfinance` to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is GameStop and its ticker symbol is `GME`.

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

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `gme_data`. Set the `period` parameter to `"max"` so we get information for the maximum amount of time.

```
[37]: gme_data = GME.history(period = "max")
gme_data
```

```
[37]:
```

	Open	High	Low	Close \
Date				
2002-02-13 00:00:00-05:00	1.620128	1.693350	1.603296	1.691667
2002-02-14 00:00:00-05:00	1.712707	1.716074	1.670626	1.683250
2002-02-15 00:00:00-05:00	1.683250	1.687458	1.658001	1.674834

2002-02-19 00:00:00-05:00	1.666417	1.666417	1.578047	1.607504
2002-02-20 00:00:00-05:00	1.615921	1.662210	1.603296	1.662210
...
2025-03-24 00:00:00-04:00	25.350000	25.830000	25.150000	25.610001
2025-03-25 00:00:00-04:00	25.700001	25.770000	24.990000	25.400000
2025-03-26 00:00:00-04:00	28.840000	29.799999	27.320000	28.360001
2025-03-27 00:00:00-04:00	25.870001	26.280001	21.160000	22.090000
2025-03-28 00:00:00-04:00	21.889999	22.790001	21.700001	21.730000

Date	Volume	Dividends	Stock Splits
2002-02-13 00:00:00-05:00	76216000	0.0	0.0
2002-02-14 00:00:00-05:00	11021600	0.0	0.0
2002-02-15 00:00:00-05:00	8389600	0.0	0.0
2002-02-19 00:00:00-05:00	7410400	0.0	0.0
2002-02-20 00:00:00-05:00	6892800	0.0	0.0
...
2025-03-24 00:00:00-04:00	5036000	0.0	0.0
2025-03-25 00:00:00-04:00	10106800	0.0	0.0
2025-03-26 00:00:00-04:00	52930500	0.0	0.0
2025-03-27 00:00:00-04:00	96733100	0.0	0.0
2025-03-28 00:00:00-04:00	44700000	0.0	0.0

[5819 rows x 7 columns]

Reset the index using the `reset_index(inplace=True)` function on the `gme_data` DataFrame and display the first five rows of the `gme_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 3 to the results below.

```
[39]: gme_data.reset_index(inplace=True)
      print(gme_data.head())
```

	index	Date	Open	High	Low	Close	\
0	0	2002-02-13 00:00:00-05:00	1.620128	1.693350	1.603296	1.691667	
1	1	2002-02-14 00:00:00-05:00	1.712707	1.716074	1.670626	1.683250	
2	2	2002-02-15 00:00:00-05:00	1.683250	1.687458	1.658001	1.674834	
3	3	2002-02-19 00:00:00-05:00	1.666417	1.666417	1.578047	1.607504	
4	4	2002-02-20 00:00:00-05:00	1.615921	1.662210	1.603296	1.662210	

	Volume	Dividends	Stock Splits
0	76216000	0.0	0.0
1	11021600	0.0	0.0
2	8389600	0.0	0.0
3	7410400	0.0	0.0
4	6892800	0.0	0.0

0.5 Question 4: Use Webscraping to Extract GME Revenue Data

Use the `requests` library to download the webpage `https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/stock.html`. Save the text of the response as a variable named `html_data_2`.

```
[48]: url = 'https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/
↳IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/stock.html'
html_data_2_url = requests.get(url)
html_data_2 = html_data_2_url.text
html_data_2

[48]: '<!DOCTYPE html>\n<!-- saved from url=(0105)https://web.archive.org/web/20200814
131437/https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue -->\n<html
class=" js flexbox canvas canvastext webgl no-touch geolocation postmessage
websqldatabase indexeddb hashchange history draganddrop websockets rgba hsla
multiplebgs backgroundsize borderimage borderradius boxshadow textshadow opacity
cssanimations csscolumns cssgradients cssreflections csstransforms
csstransforms3d csstransitions fontface generatedcontent video audio
localstorage sessionstorage webworkers no-applicationcache svg inlinesvg smil
svgclippaths" style=""><!--<![endif]--><head><meta http-equiv="Content-Type"
content="text/html; charset=UTF-8"><script type="text/javascript" async=""
src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/analytics.js.download"></script><script async=""
type="text/javascript" src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/gpt.js.download"></script><script async="" src="./GameStop
Revenue 2006-2020 _ GME _
MacroTrends_files/analytics.js(1).download"></script><script async=""
src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/analytics.js(1).download"></script><script src="./GameStop
Revenue 2006-2020 _ GME _ MacroTrends_files/analytics.js(2).download"
type="text/javascript"></script>\n<script type="text/javascript">window.addEvent
Listener(\'DOMContentLoaded\',function(){var
v=archive_analytics.values;v.service=\'wb\';v.server_name=\'wwwb-app201.us.archi
ve.org\';v.server_ms=286;archive_analytics.send_pageview({});});</script>\n<scri
pt type="text/javascript" src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/bundle-playback.js.download"
charset="utf-8"></script>\n<script type="text/javascript" src="./GameStop
Revenue 2006-2020 _ GME _ MacroTrends_files/wombat.js.download"
charset="utf-8"></script>\n<script type="text/javascript">\n
__wm.init("https://web.archive.org/web");\n __wm.wombat("https://www.macrotrend
s.net/stocks/charts/GME/gamestop/revenue","20200814131437","https://web.archive.
org/","web","/_static/","\n\t      "1597410877");\n</script>\n<link
rel="stylesheet" type="text/css" href="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/banner-styles.css">\n<link rel="stylesheet" type="text/css"
href="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/iconochive.css">\n<!-- End Wayback Rewrite JS Include -->\n\n
```



```

2006-2020 | GME">\n\t\t <meta property="og:description" content="GameStop
revenue from 2006 to 2020. Revenue can be defined as the amount of money a
company receives from its customers in exchange for the sales of goods or
services. Revenue is the top line item on an income statement from which all
costs and expenses are subtracted to arrive at net income.">\n\n\t\t<!-- JQXGRID
STYLES AND JAVASCRIPT -->\n\t\t<link rel="stylesheet" href="/GameStop Revenue
2006-2020 _ GME _ MacroTrends_files/jqx.base.css" type="text/css">\n\t\t<link
rel="stylesheet" href="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqx.bootstrap.css" type="text/css">\n\n\t\t<!-- LOAD THESE
SCRIPTS EARLY SO THE TICKER INPUT FIELD IS STYLED INSTANTLY -->\n\t\t<script
type="text/javascript" src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqxc.js.download"></script>\n\t\t<script
type="text/javascript" src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqxd.js.download"></script> \n\t\t<script
type="text/javascript" src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqxinput.js.download"></script> \n\n\t\t<!-- Styling for
search box -->\t\n\t\t<link rel="stylesheet" type="text/css" href="/GameStop
Revenue 2006-2020 _ GME _
MacroTrends_files/jquery.typeahead_pages.css">\n\n\t\t<!-- Search box javascript
-->\n\t\t<script src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jquery.typeahead.min.js.download"></script>\n\t\t\n\t\t<link
href="/GameStop Revenue 2006-2020 _ GME _ MacroTrends_files/select2.min.css"
rel="stylesheet">\n\t\t<script src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/select2.min.js.download"></script>\n\t\t\n\t\t<!-- ToolTips
-->\t\n\t\t<script src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/tipped.js.download"></script>\n\t\t<link rel="stylesheet"
href="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/tipped.css">\n\t\t\n\t\t\n\t\t\n\t\t<script async=""
src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/uat.js.download"></script>\n\t\t<script
type="text/javascript">\n\t\t\tInvestingChannelQueue =
window.InvestingChannelQueue || [];\n\t\t\t\tvar
ic_page;\n\t\t\t\tInvestingChannelQueue.push(function() {ic_page = InvestingChanne
l.UAT.Run("df17ac1e-cc7f-11e8-82a5-
0abbb61c4a6a");});\n\t\t</script>\t\n\n\t\t<!-- Global site tag (gtag.js) -
Google Analytics -->\n\t\t<script async="" src="/GameStop Revenue 2006-2020 _
GME _ MacroTrends_files/js"></script>\n\t\t<script>\n\t\t\twindow.dataLayer =
window.dataLayer || [];\n\t\t\tfunction gtag(){dataLayer.push(arguments);}
\n\t\t\tgtag(\\"js\\", new Date());\n\n\t\t\tgtag(\\"config\\",
\\\"UA-62099500-1\\");\n\t\t</script>\t\t\n\t\t\n\t\t<!-- Amcharts Files
-->\t\t\n\t\t<script src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/amcharts.js.download" type="text/javascript"></script>\n
<script src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/serial.js.download" type="text/javascript"></script>\n
<script src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/light.js.download" type="text/javascript"></script>\n
<script src="/GameStop Revenue 2006-2020 _ GME _

```



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\n\t\n\twidth:20px 0px 0px;\n\twidth:826px;\nfloat:left;\n\t\n}\n\n#right_sidebar {\n\t\n width: 300px;\n float:left;\n height:3080px;\n\t\n}\n\n#sticky_ad_left {\n\t\n position: -webkit-sticky;\n position: sticky;\n top: 30px;\n\t\n}\n\n#sticky_ad_right {\n\t\n position: -webkit-sticky;\n position: sticky;\n top: 30px;\n\t\n}\n\n\n\n\n\n\n.footer {\n position: absolute;\n bottom: 0;\n width: 100%;\n /* Set the fixed height of the footer here */\n height: 100px;\n margin-top: 10px;\t\n padding: 30px 20px 20px 20px;\n color:#fff !important;\n background-color:#444;\n text-align: center;\n font-size:16px;\n}\n\n\n.footer a {\n color:#fff !important;\n}\n\n\n.ticker_search_box {\n\t\n\tbackground-color:#F5F5F5;\n\tborder: 1px solid #E0E0E0;\n\tborder-bottom:none;\n\tpadding:10px 30px 10px 10px;\n\tmargin:0px 0px 0px 0px;\n\ttext-align:center;\n\t\n}\n\n\n.related_tickers {\n\t\n\twidth:100%;\n\tbackground-color:#F5F5F5;\n\tborder: 1px solid #E0E0E0;\n\tborder-top: 0px;\n\tpadding:3px 30px 3px 10px;\n\tmargin:0px 0px 0px 0px;\n\ttext-align:center;\n\t\n}\n\n\n.statement_type_select {\n\t\n\twidth:100%;\n\theight:28px;\n\t\n}\n\n\n.frequency_select {\n\t\n\twidth:100%;\n\theight:28px;\n\tfont-weight:600;\n\t\n}\n\n\n.select2 {\n\t\n\ttext-align:left;\n\tfont-weight:600;\n\t\n}\n\n\n.jqxInput {\n\t\n\twidth:100%;\n\theight:28px;\n\t\n}\n\n\n.header__parent_container {\n\t\n\twidth:100%;\n\theight:50px;\n\tpadding:15px 0px 10px -20px;\n\tmargin:0px 0px 0px 0px;\n\tbackground-color:#444;\n}\n\n\n.header_container {\n\t\n\twidth:100%;\n\theight:50px;\n\tpadding:15px 0px 10px -20px;\n\tmargin:0px 0px 0px 0px;\n\tbackground-color:#444;\n}\n\n\n.header_logo {\n\t\n\tpadding-top:10px;\n\tmargin-left:50px;\n\t\n}\n\n\n.menu_parent_container {\n\t\n\twidth:100%;\n\theight:34px;\n\tfont-size:16px;\n\tpadding:15px 0px 10px -20px;\n\tmargin:0px 0px 0px 0px;\n\tbackground-color:#0089de;\n}\n\n\n.menu_container {\n\t\n\twidth:1280px;\n\theight:34px;\n\tfont-size:16px;\n\tpadding:11px 0px 0px -20px;\n\tmargin: 0 auto;\n\tbackground-color:#0089de;\n\ttz-index:1000;\n}\n\n\n.menu_item {\n\t\n\theight:34px;\n\tfloat:left;\n\tfont-size:14px;\n\tfont-weight:bold;\n\tcolor:#fff;\n\ttext-align:center;\n\tpadding:7px 16px 0px 16px;\t\n}\n\n\n.menu_item:hover{\n\t\n\tbackground-color:#32a0e4;\n\tcursor:pointer;\n}\n\n\n.menu_item a{\n\t\n\tcolor:#fff;\n\tcursor:pointer;\n}\n\n\n.menu_item a:hover{\n\t\n\ttext-decoration:none;\n\tcursor:pointer;\n}\n\n\n\n.leaderboard_ad {\n\t\n\tmargin-top:20px;\n\tmargin-bottom:20px;\n\ttext-align:center;\n\tmin-height:100px;\n}\n\n\n#filter_result_count {\n\t\n\twidth:100%;\n\ttext-align:center;\n\tfont-size:24px;\n\tfont-weight:bold;\n\tpadding:10px 15px;\n\tbackground-color:#efefef;\n\tborder: 1px solid #dfdfdfe;\n\tmargin:20px;\n\t\n}\n\n\n\n.nselect {\n color: #444;\n background-color: #FFF;\n border: 1px solid #AAA;\n border-radius: 4px;\n box-sizing: border-box;\n cursor: pointer;\n display: block;\n height:40px;\n line-height: 40px;\n}\n\n\n.historical_data_table {\n table-layout: fixed;\n\tmargin:20px;\n}\n\n\n.historical_data_table tbody tr td {\n\t\n\tpadding:6px;\n\tvertical-align: middle
```

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!important;\n\n}\n\n\n.n.descriptors {\n\t\n\t\ttext-align:center;\n\t\tfont-
size:14px;\n\t\tpadding:15px;\n\t\n\n}\n\n\n.n.td_metric_name
{\n\t\n\t\twidth:110px;\n\t\tpadding-top:17px;\n\t\n\n}\n\n\n.n.metric_link {\n\t\n\t\tfont-
size:14px;\n\t\tfont-weight:bold;\n\n\n}\n\n\n.n.help_icon
{\n\t\n\t\twidth:15px;\n\t\theight:18px;\n\t\tpadding-
bottom:3px;\n\t\n\n}\n\n\n.n.td_min_value {\n\t\n\t\twidth:75px;\n\t\ttext-
align:center;\n\t\tfont-size:13px;\n\t\n\n}\n\n\n.n.td_max_value
{\n\t\n\t\twidth:75px;\n\t\ttext-align:center;\n\t\tfont-
size:13px;\n\t\n\n}\n\n\n#myCombobox .form-control {\n\t\n\t\tbackground-color:
#99d5ff;\n\t\n\n}\n\n\n.n.dropdown-toggle {\n\t\n\t\theight:24px;\n\t\tpadding-
top:0px;\n\t\tpadding-left:7px;\n\t\twidth:24px;\n\t\n\n}\n\n\n.n.dropdown-menu-right
{\n\t\n\t\tmin-width:75px;\n\t\tfont-size:13px;\n\t\n\n}\n\n\n.n.form-control
{\n\t\n\t\tfont-size:12px;\n\t\tpadding:5px
10px;\n\t\theight:24px;\n\t\n\n}\n\n\n#myPills1 {\n\t\n\t\tmargin:0px 15px 10px
0px;\n\t\n\n}\n\n\n#jqxgrid {\n\t\n\t\tborder-radius:0px;\n\t\n\n}\n\n\n.jqx-widget-header
{\n\t\n\t\n\tfont-family: \'Roboto\', sans-serif;\n\t\tfont-
size:13px;\n\t\n\n}\n\n\n.jqx-item {\n\t\n\t\n\tfont-family: \'Roboto\', sans-
serif;\n\t\tfont-size: 13px;\n\t\n\n}\n\n\n.jqx-widget-content {\n\t\n\t\n\tborder-color:
#E0E0E0;\n\t\n\n}\n\n\n#jqxgrid .jqx-grid-cell {\n\t\n\t\n\tborder-color:
#E0E0E0;\n\t\n\n}\n\n\n#jqxgrid .jqx-grid-cell-pinned {\n\t\n\t\n\tborder-color:
#E0E0E0;\n\t\tbackground-color: #F5F5F5;\n\t\n\n}\n\n\n#jqxgrid .jqx-grid-column-
header {\n\t\n\t\n\tborder-color: #E0E0E0;\n\t\tbackground-color:
#F5F5F5;\n\t\n\n}\n\n\n.n.clear_zero {\n\t\n\n\t\theight:0px;\n\t\n\n}\n\n\n\n\n\n/* Styles for
Popup Charts */\n\n\n.n.tpd-size-large {\n\t\n\t\n\tmargin:0px;\n\t\n\t\tpadding:
0px;\n\n\n}\n\n\n.n.popup_window_wrapper
{\n\t\n\t\n\tmargin:15px;\n\t\n\n}\n\n\n.n.popup_stock_name {\n\t\n\n\t\tfont-
size:16px;\n\t\tfont-weight:bold;\n\t\tmargin:5px;\n\t\n\n}\n\n\n.n.popup_stock_attributes
{\n\t\n\n\t\tfont-size:13px;\n\t\tfont-
weight:bold;\n\t\tmargin:5px;\n\t\n\n}\n\n\n.n.popup_stock_description {\n\t\n\n\t\tfont-
size:12px;\n\t\tmargin:5px;\n\t\n\n}\n\n\n.jqx-input {\n\t\n\t\n\tfont-size:14px;\n\t\n\n}
\n\n\n.jqx-menu-item {\n\t\n\t\n\tfont-size:14px;\n\t\n\n}\n\n\n.jqx-input
{\n\t\n\t\n\tpadding:5px 10px;\n\t\n\n}\n\n\n.n.nav-tabs {\n\t\n\tborder: 1px solid
#E0E0E0;\n\t\tbackground-color:#F5F5F5;\n\t\tpadding: 3px 5px 0px 5px;\n\t\tmargin:
0px 0px 10px 0px;\n\n\n}\n\n\n.n.nav-tabs>li>a {\n\t\tfont-size:13px;\n\t\tpadding:7px
12px;\n\t\tfont-weight:600;\n\t\tmargin-right: 0px;\n\t\tline-height:
1.42857143;\n\t\tborder: 0px;\n\t\tborder-radius: 0px 0px 0 0;\n\t\tbackground-
color:#F5F5F5;\n\t\n\n}\n\n\n.n.nav-tabs>li>a .active {\n\t\tmargin-right: 0px;\n\t\tline-
height: 1.42857143;\n\t\tborder: 1px solid #E0E0E0;\n\t\tborder-radius: 0px
0px 0 0;\n\t\tbackground-color:#F5F5F5;\n\t\n\n}\n\n\n.n.nav-tabs>li>a: hover { \n\t\t
background-color: #F5F5F5;\n\t\ttext-decoration:
underline;\n\t\n\n}\n\n\n.n.donate_buttons {\n\t\n\n\t\tmargin-left:20px;\n\t\n\t\n\t}\n\n\n.n.modal-
body {\n\t\n\n\t\tmargin:10px 40px 20px 40px;\n\t\ttext-align:left;\n\t\tfont-
size:18px;\n\t\n\n}\n\n\n.n.modal-body li {\n\t\n\n\t\tmargin-top:20px;\n\t\tfont-
size:14px;\n\t\n\n}\n\n\n.n.modal_title {\n\t\n\n\n\t\ttext-align:center;\n\t\tmargin-
bottom:30px;\n\t\n\n}\n\n\n.n.modal-body th{\n\t\n\n\t\tmargin-left:10px;\n\t\tfont-
size:14px;\n\n\n}\n\n\n.n.modal-body td {\n\t\n\n\t\tcolor: #337ab7;\n\t\tmargin-
left:10px;\n\t\tfont-size:14px;\n\n\n}\n\n\n.n.modal_button {\n\t\n\n\t\tmargin-

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top:50px;\n\ttext-align:center;\n\tfont-
size:16px;\n\n}\t\n\n\n</style>\t\n\n\n<script type="text/javascript" async=""
src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/js(1)"></script><style type="text/css">@-webkit-keyframes
bounce{0%,20%,50%,80%,to{-webkit-
transform:translateY(0);transform:translateY(0)}40%{-webkit-
transform:translateY(-30px);transform:translateY(-30px)}60%{-webkit-
transform:translateY(-15px);transform:translateY(-15px)}}@keyframes
bounce{0%,20%,50%,80%,to{-webkit-
transform:translateY(0);transform:translateY(0)}40%{-webkit-
transform:translateY(-30px);transform:translateY(-30px)}60%{-webkit-
transform:translateY(-15px);transform:translateY(-15px)}}.om-animation-
bounce{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
fill-mode:both;animation-fill-mode:both;-webkit-animation-name:bounce;animation-
name:bounce}@-webkit-keyframes bounceIn{0%{opacity:0;-webkit-
transform:scale(.3);transform:scale(.3)}50%{opacity:1;-webkit-
transform:scale(1.05);transform:scale(1.05)}70%{-webkit-
transform:scale(.9);transform:scale(.9)}to{opacity:1;-webkit-
transform:scale(1);transform:scale(1)}}@keyframes bounceIn{0%{opacity:0;-webkit-
transform:scale(.3);transform:scale(.3)}50%{opacity:1;-webkit-
transform:scale(1.05);transform:scale(1.05)}70%{-webkit-
transform:scale(.9);transform:scale(.9)}to{opacity:1;-webkit-
transform:scale(1);transform:scale(1)}}.om-animation-bounce-in{-webkit-
animation-duration:1s;animation-duration:1s;-webkit-animation-
name:bounceIn;animation-name:bounceIn}@-webkit-keyframes
bounceInDown{0%{opacity:0;-webkit-transform:translateY(-
2000px);transform:translateY(-2000px)}60%{opacity:1;-webkit-
transform:translateY(30px);transform:translateY(30px)}80%{-webkit-
transform:translateY(-10px);transform:translateY(-10px)}to{-webkit-
transform:translateY(0);transform:translateY(0)}}@keyframes
bounceInDown{0%{opacity:0;-webkit-transform:translateY(-
2000px);transform:translateY(-2000px)}60%{opacity:1;-webkit-
transform:translateY(30px);transform:translateY(30px)}80%{-webkit-
transform:translateY(-10px);transform:translateY(-10px)}to{-webkit-
transform:translateY(0);transform:translateY(0)}}.om-animation-bounce-in-
down{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:bounceInDown;animation-name:bounceInDown}@-webkit-keyframes
bounceInLeft{0%{opacity:0;-webkit-transform:translateX(-
2000px);transform:translateX(-2000px)}60%{opacity:1;-webkit-
transform:translateX(30px);transform:translateX(30px)}80%{-webkit-
transform:translateX(-10px);transform:translateX(-10px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}@keyframes
bounceInLeft{0%{opacity:0;-webkit-transform:translateX(-
2000px);transform:translateX(-2000px)}60%{opacity:1;-webkit-
transform:translateX(30px);transform:translateX(30px)}80%{-webkit-
transform:translateX(-10px);transform:translateX(-10px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}.om-animation-bounce-in-

```



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left{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:bounceInLeft;animation-name:bounceInLeft}@-webkit-keyframes
bounceInRight{0%{opacity:0;-webkit-
transform:translateX(2000px);transform:translateX(2000px)}60%{opacity:1;-webkit-
transform:translateX(-30px);transform:translateX(-30px)}80%{-webkit-
transform:translateX(10px);transform:translateX(10px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}@keyframes
bounceInRight{0%{opacity:0;-webkit-
transform:translateX(2000px);transform:translateX(2000px)}60%{opacity:1;-webkit-
transform:translateX(-30px);transform:translateX(-30px)}80%{-webkit-
transform:translateX(10px);transform:translateX(10px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}.om-animation-bounce-in-
right{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:bounceInRight;animation-name:bounceInRight}@-webkit-keyframes
bounceInUp{0%{opacity:0;-webkit-
transform:translateY(2000px);transform:translateY(2000px)}60%{opacity:1;-webkit-
transform:translateY(-30px);transform:translateY(-30px)}80%{-webkit-
transform:translateY(10px);transform:translateY(10px)}to{-webkit-
transform:translateY(0);transform:translateY(0)}}@keyframes
bounceInUp{0%{opacity:0;-webkit-
transform:translateY(2000px);transform:translateY(2000px)}60%{opacity:1;-webkit-
transform:translateY(-30px);transform:translateY(-30px)}80%{-webkit-
transform:translateY(10px);transform:translateY(10px)}to{-webkit-
transform:translateY(0);transform:translateY(0)}}.om-animation-bounce-in-
up{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:bounceInUp;animation-name:bounceInUp}@-webkit-keyframes
flash{0%,50%,to{opacity:1}25%,75%{opacity:0}}@keyframes
flash{0%,50%,to{opacity:1}25%,75%{opacity:0}}.om-animation-flash{-webkit-
animation-duration:1s;animation-duration:1s;-webkit-animation-fill-
mode:both;animation-fill-mode:both;-webkit-animation-name:flash;animation-
name:flash}@-webkit-keyframes flip{0%{-webkit-transform:perspective(800px)
translateZ(0) rotateY(0) scale(1);transform:perspective(800px) translateZ(0)
rotateY(0) scale(1);-webkit-animation-timing-function:ease-out;animation-timing-
function:ease-out}40%{-webkit-transform:perspective(800px) translateZ(150px)
rotateY(170deg) scale(1);transform:perspective(800px) translateZ(150px)
rotateY(170deg) scale(1);-webkit-animation-timing-function:ease-out;animation-
timing-function:ease-out}50%{-webkit-transform:perspective(800px)
translateZ(150px) rotateY(190deg) scale(1);transform:perspective(800px)
translateZ(150px) rotateY(190deg) scale(1);-webkit-animation-timing-
function:ease-in;animation-timing-function:ease-in}80%{-webkit-
transform:perspective(800px) translateZ(0) rotateY(1turn)
scale(.95);transform:perspective(800px) translateZ(0) rotateY(1turn)
scale(.95);-webkit-animation-timing-function:ease-in;animation-timing-
function:ease-in}to{-webkit-transform:perspective(800px) translateZ(0)
rotateY(1turn) scale(1);transform:perspective(800px) translateZ(0)
rotateY(1turn) scale(1);-webkit-animation-timing-function:ease-in;animation-
timing-function:ease-in}}@keyframes flip{0%{-webkit-transform:perspective(800px)

```

```

translateZ(0) rotateY(0) scale(1);transform:perspective(800px) translateZ(0)
rotateY(0) scale(1);-webkit-animation-timing-function:ease-out;animation-timing-
function:ease-out}40%{-webkit-transform:perspective(800px) translateZ(150px)
rotateY(170deg) scale(1);transform:perspective(800px) translateZ(150px)
rotateY(170deg) scale(1);-webkit-animation-timing-function:ease-out;animation-
timing-function:ease-out}50%{-webkit-transform:perspective(800px)
translateZ(150px) rotateY(190deg) scale(1);transform:perspective(800px)
translateZ(150px) rotateY(190deg) scale(1);-webkit-animation-timing-
function:ease-in;animation-timing-function:ease-in}80%{-webkit-
transform:perspective(800px) translateZ(0) rotateY(1turn)
scale(.95);transform:perspective(800px) translateZ(0) rotateY(1turn)
scale(.95);-webkit-animation-timing-function:ease-in;animation-timing-
function:ease-in}to{-webkit-transform:perspective(800px) translateZ(0)
rotateY(1turn) scale(1);transform:perspective(800px) translateZ(0)
rotateY(1turn) scale(1);-webkit-animation-timing-function:ease-in;animation-
timing-function:ease-in}}.om-animation-flip{-webkit-animation-
duration:1s;animation-duration:1s;-webkit-backface-visibility:visible;backface-
visibility:visible;-webkit-animation-name:flip;animation-name:flip}@-webkit-
keyframes flipInX{0%{-webkit-transform:perspective(800px)
rotateX(90deg);transform:perspective(800px)
rotateX(90deg);opacity:0}40%{-webkit-transform:perspective(800px)
rotateX(-10deg);transform:perspective(800px) rotateX(-10deg)}70%{-webkit-
transform:perspective(800px) rotateX(10deg);transform:perspective(800px)
rotateX(10deg)}to{-webkit-transform:perspective(800px)
rotateX(0deg);transform:perspective(800px) rotateX(0deg);opacity:1}}@keyframes
flipInX{0%{-webkit-transform:perspective(800px)
rotateX(90deg);transform:perspective(800px)
rotateX(90deg);opacity:0}40%{-webkit-transform:perspective(800px)
rotateX(-10deg);transform:perspective(800px) rotateX(-10deg)}70%{-webkit-
transform:perspective(800px) rotateX(10deg);transform:perspective(800px)
rotateX(10deg)}to{-webkit-transform:perspective(800px)
rotateX(0deg);transform:perspective(800px) rotateX(0deg);opacity:1}}.om-
animation-flip-down{-webkit-animation-duration:1s;animation-duration:1s;-webkit-
backface-visibility:visible;backface-visibility:visible;-webkit-animation-
name:flipInX;animation-name:flipInX}@-webkit-keyframes flipInY{0%{-webkit-
transform:perspective(800px) rotateY(90deg);transform:perspective(800px)
rotateY(90deg);opacity:0}40%{-webkit-transform:perspective(800px)
rotateY(-10deg);transform:perspective(800px) rotateY(-10deg)}70%{-webkit-
transform:perspective(800px) rotateY(10deg);transform:perspective(800px)
rotateY(10deg)}to{-webkit-transform:perspective(800px)
rotateY(0deg);transform:perspective(800px) rotateY(0deg);opacity:1}}@keyframes
flipInY{0%{-webkit-transform:perspective(800px)
rotateY(90deg);transform:perspective(800px)
rotateY(90deg);opacity:0}40%{-webkit-transform:perspective(800px)
rotateY(-10deg);transform:perspective(800px) rotateY(-10deg)}70%{-webkit-
transform:perspective(800px) rotateY(10deg);transform:perspective(800px)
rotateY(10deg)}to{-webkit-transform:perspective(800px)

```

```

rotateY(0deg);transform:perspective(800px) rotateY(0deg);opacity:1}}.om-
animation-flip-side{-webkit-animation-duration:1s;animation-duration:1s;-webkit-
backface-visibility:visible;backface-visibility:visible;-webkit-animation-
name:flipInY;animation-name:flipInY}@-webkit-keyframes lightSpeedIn{0%{-webkit-
transform:translateX(100%) skewX(-30deg);transform:translateX(100%)
skewX(-30deg);opacity:0}60%{-webkit-transform:translateX(-20%)
skewX(30deg);transform:translateX(-20%) skewX(30deg);opacity:1}80%{-webkit-
transform:translateX(0) skewX(-15deg);transform:translateX(0)
skewX(-15deg);opacity:1}to{-webkit-transform:translateX(0)
skewX(0deg);transform:translateX(0) skewX(0deg);opacity:1}}@keyframes
lightSpeedIn{0%{-webkit-transform:translateX(100%)
skewX(-30deg);transform:translateX(100%) skewX(-30deg);opacity:0}60%{-webkit-
transform:translateX(-20%) skewX(30deg);transform:translateX(-20%)
skewX(30deg);opacity:1}80%{-webkit-transform:translateX(0)
skewX(-15deg);transform:translateX(0) skewX(-15deg);opacity:1}to{-webkit-
transform:translateX(0) skewX(0deg);transform:translateX(0)
skewX(0deg);opacity:1}}.om-animation-light-speed{-webkit-animation-
duration:1s;animation-duration:1s;-webkit-animation-name:lightSpeedIn;animation-
name:lightSpeedIn;-webkit-animation-timing-function:ease-out;animation-timing-
function:ease-out}@-webkit-keyframes pulse{0%{-webkit-
transform:scale(1);transform:scale(1)}50%{-webkit-
transform:scale(1.1);transform:scale(1.1)}to{-webkit-
transform:scale(1);transform:scale(1)}}@keyframes pulse{0%{-webkit-
transform:scale(1);transform:scale(1)}50%{-webkit-
transform:scale(1.1);transform:scale(1.1)}to{-webkit-
transform:scale(1);transform:scale(1)}}.om-animation-pulse{-webkit-animation-
duration:1s;animation-duration:1s;-webkit-animation-fill-mode:both;animation-
fill-mode:both;-webkit-animation-name:pulse;animation-name:pulse}@-webkit-
keyframes rollIn{0%{opacity:0;-webkit-transform:translateX(-100%)
rotate(-120deg);transform:translateX(-100%)
rotate(-120deg)}to{opacity:1;-webkit-transform:translateX(0)
rotate(0deg);transform:translateX(0) rotate(0deg)}}@keyframes
rollIn{0%{opacity:0;-webkit-transform:translateX(-100%)
rotate(-120deg);transform:translateX(-100%)
rotate(-120deg)}to{opacity:1;-webkit-transform:translateX(0)
rotate(0deg);transform:translateX(0) rotate(0deg)}}.om-animation-roll-
in{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:rollIn;animation-name:rollIn}@-webkit-keyframes rotateIn{0%{-webkit-
transform-origin:center center;transform-origin:center center;-webkit-
transform:rotate(-200deg);transform:rotate(-200deg);opacity:0}to{-webkit-
transform-origin:center center;transform-origin:center center;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}@keyframes
rotateIn{0%{-webkit-transform-origin:center center;transform-origin:center
center;-webkit-
transform:rotate(-200deg);transform:rotate(-200deg);opacity:0}to{-webkit-
transform-origin:center center;transform-origin:center center;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}.om-animation-rotate{-webkit-

```

```

animation-duration:1s;animation-duration:1s;-webkit-animation-
name:rotateIn;animation-name:rotateIn}@-webkit-keyframes
rotateInDownLeft{0%{-webkit-transform-origin:left bottom;transform-origin:left
bottom;-webkit-
transform:rotate(-90deg);transform:rotate(-90deg);opacity:0}to{-webkit-
transform-origin:left bottom;transform-origin:left bottom;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}@keyframes
rotateInDownLeft{0%{-webkit-transform-origin:left bottom;transform-origin:left
bottom;-webkit-
transform:rotate(-90deg);transform:rotate(-90deg);opacity:0}to{-webkit-
transform-origin:left bottom;transform-origin:left bottom;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}.om-animation-rotate-down-
left{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:rotateInDownLeft;animation-name:rotateInDownLeft}@-webkit-keyframes
rotateInDownRight{0%{-webkit-transform-origin:right bottom;transform-
origin:right bottom;-webkit-
transform:rotate(90deg);transform:rotate(90deg);opacity:0}to{-webkit-transform-
origin:right bottom;transform-origin:right bottom;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}@keyframes
rotateInDownRight{0%{-webkit-transform-origin:right bottom;transform-
origin:right bottom;-webkit-
transform:rotate(90deg);transform:rotate(90deg);opacity:0}to{-webkit-transform-
origin:right bottom;transform-origin:right bottom;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}.om-animation-rotate-down-
right{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:rotateInDownRight;animation-name:rotateInDownRight}@-webkit-keyframes
rotateInUpLeft{0%{-webkit-transform-origin:left bottom;transform-origin:left
bottom;-webkit-
transform:rotate(90deg);transform:rotate(90deg);opacity:0}to{-webkit-transform-
origin:left bottom;transform-origin:left bottom;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}@keyframes
rotateInUpLeft{0%{-webkit-transform-origin:left bottom;transform-origin:left
bottom;-webkit-
transform:rotate(90deg);transform:rotate(90deg);opacity:0}to{-webkit-transform-
origin:left bottom;transform-origin:left bottom;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}.om-animation-rotate-up-
left{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:rotateInUpLeft;animation-name:rotateInUpLeft}@-webkit-keyframes
rotateInUpRight{0%{-webkit-transform-origin:right bottom;transform-origin:right
bottom;-webkit-
transform:rotate(-90deg);transform:rotate(-90deg);opacity:0}to{-webkit-
transform-origin:right bottom;transform-origin:right bottom;-webkit-
transform:rotate(0);transform:rotate(0);opacity:1}}@keyframes
rotateInUpRight{0%{-webkit-transform-origin:right bottom;transform-origin:right
bottom;-webkit-
transform:rotate(-90deg);transform:rotate(-90deg);opacity:0}to{-webkit-
transform-origin:right bottom;transform-origin:right bottom;-webkit-

```

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transform:rotate(0);transform:rotate(0);opacity:1}}.om-animation-rotate-up-
right{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:rotateInUpRight;animation-name:rotateInUpRight}@-webkit-keyframes
rubberBand{0%{-webkit-transform:scale(1);transform:scale(1)}30%{-webkit-
transform:scaleX(1.25) scaleY(.75);transform:scaleX(1.25)
scaleY(.75)}40%{-webkit-transform:scaleX(.75) scaleY(1.25);transform:scaleX(.75)
scaleY(1.25)}60%{-webkit-transform:scaleX(1.15)
scaleY(.85);transform:scaleX(1.15) scaleY(.85)}to{-webkit-
transform:scale(1);transform:scale(1)}}@keyframes rubberBand{0%{-webkit-
transform:scale(1);transform:scale(1)}30%{-webkit-transform:scaleX(1.25)
scaleY(.75);transform:scaleX(1.25) scaleY(.75)}40%{-webkit-transform:scaleX(.75)
scaleY(1.25);transform:scaleX(.75) scaleY(1.25)}60%{-webkit-
transform:scaleX(1.15) scaleY(.85);transform:scaleX(1.15)
scaleY(.85)}to{-webkit-transform:scale(1);transform:scale(1)}}.om-animation-
rubber-band{-webkit-animation-duration:1s;animation-duration:1s;-webkit-
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name:rubberBand;animation-name:rubberBand}@-webkit-keyframes
shake{0%,to{-webkit-
transform:translateX(0);transform:translateX(0)}10%,30%,50%,70%,90%{-webkit-
transform:translateX(-10px);transform:translateX(-10px)}20%,40%,60%,80%{-webkit-
transform:translateX(10px);transform:translateX(10px)}}@keyframes
shake{0%,to{-webkit-
transform:translateX(0);transform:translateX(0)}10%,30%,50%,70%,90%{-webkit-
transform:translateX(-10px);transform:translateX(-10px)}20%,40%,60%,80%{-webkit-
transform:translateX(10px);transform:translateX(10px)}}.om-animation-
shake{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
fill-mode:both;animation-fill-mode:both;-webkit-animation-name:shake;animation-
name:shake}@-webkit-keyframes slideInDown{0%{opacity:0;-webkit-
transform:translateY(-2000px);transform:translateY(-2000px)}to{-webkit-
transform:translateY(0);transform:translateY(0)}}@keyframes
slideInDown{0%{opacity:0;-webkit-
transform:translateY(-2000px);transform:translateY(-2000px)}to{-webkit-
transform:translateY(0);transform:translateY(0)}}.om-animation-slide-in-
down{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:slideInDown;animation-name:slideInDown}@-webkit-keyframes
slideInLeft{0%{opacity:0;-webkit-
transform:translateX(-2000px);transform:translateX(-2000px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}@keyframes
slideInLeft{0%{opacity:0;-webkit-
transform:translateX(-2000px);transform:translateX(-2000px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}.om-animation-slide-in-
left{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:slideInLeft;animation-name:slideInLeft}@-webkit-keyframes
slideInRight{0%{opacity:0;-webkit-
transform:translateX(2000px);transform:translateX(2000px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}@keyframes
slideInRight{0%{opacity:0;-webkit-

```

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transform:translateX(2000px);transform:translateX(2000px)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}.om-animation-slide-in-
right{-webkit-animation-duration:1s;animation-duration:1s;-webkit-animation-
name:slideInRight;animation-name:slideInRight}@-webkit-keyframes
swing{20%{-webkit-transform:rotate(15deg);transform:rotate(15deg)}40%{-webkit-
transform:rotate(-10deg);transform:rotate(-10deg)}60%{-webkit-
transform:rotate(5deg);transform:rotate(5deg)}80%{-webkit-
transform:rotate(-5deg);transform:rotate(-5deg)}to{-webkit-
transform:rotate(0deg);transform:rotate(0deg)}}@keyframes swing{20%{-webkit-
transform:rotate(15deg);transform:rotate(15deg)}40%{-webkit-
transform:rotate(-10deg);transform:rotate(-10deg)}60%{-webkit-
transform:rotate(5deg);transform:rotate(5deg)}80%{-webkit-
transform:rotate(-5deg);transform:rotate(-5deg)}to{-webkit-
transform:rotate(0deg);transform:rotate(0deg)}}.om-animation-swing{-webkit-
animation-duration:1s;animation-duration:1s;-webkit-transform-origin:top
center;transform-origin:top center;-webkit-animation-name:swing;animation-
name:swing}@-webkit-keyframes tada{0%{-webkit-
transform:scale(1);transform:scale(1)}10%,20%{-webkit-transform:scale(.9)
rotate(-3deg);transform:scale(.9) rotate(-3deg)}30%,50%,70%,90%{-webkit-
transform:scale(1.1) rotate(3deg);transform:scale(1.1)
rotate(3deg)}40%,60%,80%{-webkit-transform:scale(1.1)
rotate(-3deg);transform:scale(1.1) rotate(-3deg)}to{-webkit-transform:scale(1)
rotate(0);transform:scale(1) rotate(0)}}@keyframes tada{0%{-webkit-
transform:scale(1);transform:scale(1)}10%,20%{-webkit-transform:scale(.9)
rotate(-3deg);transform:scale(.9) rotate(-3deg)}30%,50%,70%,90%{-webkit-
transform:scale(1.1) rotate(3deg);transform:scale(1.1)
rotate(3deg)}40%,60%,80%{-webkit-transform:scale(1.1)
rotate(-3deg);transform:scale(1.1) rotate(-3deg)}to{-webkit-transform:scale(1)
rotate(0);transform:scale(1) rotate(0)}}.om-animation-tada{-webkit-animation-
duration:1s;animation-duration:1s;-webkit-animation-name:tada;animation-
name:tada}@-webkit-keyframes wobble{0%{-webkit-
transform:translateX(0);transform:translateX(0)}15%{-webkit-
transform:translateX(-25%) rotate(-5deg);transform:translateX(-25%)
rotate(-5deg)}30%{-webkit-transform:translateX(20%)
rotate(3deg);transform:translateX(20%) rotate(3deg)}45%{-webkit-
transform:translateX(-15%) rotate(-3deg);transform:translateX(-15%)
rotate(-3deg)}60%{-webkit-transform:translateX(10%)
rotate(2deg);transform:translateX(10%) rotate(2deg)}75%{-webkit-
transform:translateX(-5%) rotate(-1deg);transform:translateX(-5%)
rotate(-1deg)}to{-webkit-
transform:translateX(0);transform:translateX(0)}}@keyframes wobble{0%{-webkit-
transform:translateX(0);transform:translateX(0)}15%{-webkit-
transform:translateX(-25%) rotate(-5deg);transform:translateX(-25%)
rotate(-5deg)}30%{-webkit-transform:translateX(20%)
rotate(3deg);transform:translateX(20%) rotate(3deg)}45%{-webkit-
transform:translateX(-15%) rotate(-3deg);transform:translateX(-15%)
rotate(-3deg)}60%{-webkit-transform:translateX(10%)

```

```

rotate(2deg);transform:translateX(10%) rotate(2deg)}75%{-webkit-
transform:translateX(-5%) rotate(-1deg);transform:translateX(-5%)
rotate(-1deg)}to{-webkit-transform:translateX(0);transform:translateX(0)}}.om-
animation-wobble{-webkit-animation-duration:1s;animation-duration:1s;-webkit-
animation-name:wobble;animation-name:wobble}.om-content-
lock{color:transparent!important;text-shadow:rgba(0,0,0,.5) 0 0 10px;-webkit-
user-select:none;-moz-user-select:none;-ms-user-select:none;user-
select:none;pointer-events:none;filter:url("data:image/svg+xml;utf9,<svg%20versi
on='1.1'%20xmlns='http://www.w3.org/2000/svg'><filter%20id='blur'><feGauss
ianBlur%20stdDeviation='10'%20/></filter></svg>#blur");-webkit-
filter:blur(10px);-ms-
filter:blur(10px);-o-filter:blur(10px);filter:blur(10px)}html.om-mobile-
position,html.om-mobile-position body{position:fixed!important}html.om-ios-
form,html.om-ios-form body{-webkit-
transform:translateZ(0)!important;transform:translateZ(0)!important;-webkit-
overflow-
scrolling:touch!important;height:100%!important;overflow:auto!important}html.om-
position-popup body{overflow:hidden!important}html.om-position-floating-
top{transition:padding-top .5s ease!important}html.om-position-floating-
bottom{transition:padding-bottom .5s ease!important}html.om-reset-
dimensions{height:100%!important;width:100%!important}.om-verification-
confirmation{font-family:Lato,Arial,Helvetica,sans-serif;position:fixed;border-
radius:10px;bottom:20px;left:20px;padding:10px 20px;opacity:0;transition:opacity
.3s ease-in;background:#85bf31;color:#fff;font-size:18px;font-
weight:700;z-index:9999}</style><link rel="preload" href="/GameStop Revenue
2006-2020 _ GME _ MacroTrends_files/f.txt" as="script"><script
type="text/javascript" src="/GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/f.txt"></script><script src="/GameStop Revenue 2006-2020 _
GME _ MacroTrends_files/pubads_impl_2020080501.js.download"
async=""></script></head>\n\t<body class="fuelux" data-new-gr-c-s-check-
loaded="14.1050.0" data-gr-ext-installed=""><!-- BEGIN WAYBACK TOOLBAR INSERT
-->\n<style type="text/css">\nbody {\n margin-top:0 !important;\n padding-
top:0 !important;\n /*min-width:800px
!important;*/\n}\n</style>\n<script>__wm.rw(0);</script>\n<div id="wm-ipp-base"
lang="en" style="display: block; direction: ltr;">\n</div><div id="wm-ipp-
print">The Wayback Machine - https://web.archive.org/web/20200814131437/https://
www.macrotrends.net/stocks/charts/GME/gamestop/revenue</div>\n<script type="text
/javascript">\n__wm.bt(675,27,25,2,"web","https://www.macrotrends.net/stocks/cha
rts/GME/gamestop/revenue","20200814131437",1996,"/_static/","/_static/css/banne
r-styles.css?v=fantwOh2","/_static/css/iconochive.css?v=qtvMKcIJ"), false);\n
__wm.rw(1);\n</script>\n<!-- END WAYBACK TOOLBAR INSERT -->\n      <!--[if lt
IE 7]>\n          <p class="browsehapp">You are using an
<strong>outdated</strong> browser. Please <a
href="https://browsehapp.com/">upgrade your browser</a> to improve your
experience.</p>\n          <![endif]>-->\n\n<div class="header_content_container
container-fluid">\n\n\n<div class="header_parent_container">\n\n\n<div
class="header_container">\n\n\n\t<div class="header_logo col-xs-2">\n\t\t<a

```


\$9,364	
\$9,296	
\$9,040	
\$8,887	
\$9,551	
\$9,474	
\$9,078	
\$7,094	
\$5,319	
\$3,092	
\$1,843	

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]


```
[53]: import pandas as pd
from bs4 import BeautifulSoup

# Initialize empty lists
dates, revenues = [], []

# Extract rows from the table
for row in soup.find("tbody").find_all("tr"):
    col = row.find_all("td")
    dates.append(col[0].text.strip()) # Extract Date
    revenues.append(col[1].text.strip().replace(',', '').replace('$', '')) #_
    ↪ Remove $, and ,

# Create DataFrame only once (more efficient)
gme_revenue = pd.DataFrame({"Date": dates, "Revenue": revenues})

# Display first 5 rows
print(gme_revenue.head())
```

	Date	Revenue
0	2021	53823
1	2020	31536
2	2019	24578
3	2018	21461
4	2017	11759

Display the last five rows of the `gme_revenue` dataframe using the `tail` function. Take a screenshot of the results.

```
[54]: gme_revenue.tail()
```

```
[54]:
```

	Date	Revenue
8	2013	2013
9	2012	413
10	2011	204
11	2010	117
12	2009	112

0.6 Question 5: Plot Tesla Stock Graph

Use the `make_graph` function to graph the Tesla Stock Data, also provide a title for the graph. Note the graph will only show data upto June 2021.

Hint

You just need to invoke the `make_graph` function with the required parameter to print the graph.

```
[58]: tesla_revenue["Revenue"] = tesla_revenue["Revenue"].replace('[\$,]', '',  
      ↪ regex=True).astype(float)  
tesla_graph = make_graph(tesla_data, tesla_revenue, 'Tesla')
```

/tmp/ipykernel_301/109047474.py:5: UserWarning:

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

/tmp/ipykernel_301/109047474.py:6: UserWarning:

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

<IPython.core.display.HTML object>

0.7 Question 6: Plot GameStop Stock Graph

Use the `make_graph` function to graph the GameStop Stock Data, also provide a title for the graph. The structure to call the `make_graph` function is `make_graph(gme_data, gme_revenue, 'GameStop')`. Note the graph will only show data upto June 2021.

Hint

You just need to invoke the `make_graph` function with the required parameter to print the graph.

```
[59]: gamestop_graph = make_graph(gme_data, gme_revenue, 'GameStop')
```

/tmp/ipykernel_301/109047474.py:5: UserWarning:

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

/tmp/ipykernel_301/109047474.py:6: UserWarning:

The argument 'infer_datetime_format' is deprecated and will be removed in a future version. A strict version of it is now the default, see <https://pandas.pydata.org/pdeps/0004-consistent-to-datetime-parsing.html>. You can safely remove this argument.

<IPython.core.display.HTML object>

About the Authors:

Joseph Santarcangelo has a PhD in Electrical Engineering, his research focused on using machine learning, signal processing, and computer vision to determine how videos impact human cognition. Joseph has been working for IBM since he completed his PhD.

Azim Hirjani

0.8 Change Log

Date (YYYY-MM-DD)	Version	Changed By	Change Description
2022-02-28	1.2	Lakshmi Holla	Changed the URL of GameStop
2020-11-10	1.1	Malika Singla	Deleted the Optional part
2020-08-27	1.0	Malika Singla	Added lab to GitLab

##

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